



Indiana State Department of Health

POLICY AND PROCEDURE MANUAL

FOR REPORTING FACILITIES

May 2015

Effective For Cases Diagnosed January 1, 2015 and Later

**Indiana State Cancer Registry
Indiana State Department of Health
2 North Meridian Street, Section 6-B
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TABLE OF CONTENTS

INDIANA STATE DEPARTMENT OF HEALTH STAFF	viii
INDIANA STATE DEPARTMENT OF HEALTH CANCER REGISTRY STAFF	ix
ACKNOWLEDGMENTS.....	x
INTRODUCTION.....	1
A. Background.....	1
B. Purpose	1
C. Definitions	1
D. Reference Materials.....	1
E. Consultation.....	2
F. Output	2
G. Quality Control	2
CHAPTER 1: REFERENCES	3
A. Required References.....	3
B. Additional Resources.....	3
C. Historic References	5
CHAPTER 2: CASEFINDING & SETTING UP A REGISTRY	6
A. Overview.....	6
B. Reportable List.....	6
C. Methods Of Casefinding	6
D. Suspense System	9
E. Accession Register	9
F. Patient Index.....	10
G. Filing	11
CHAPTER 3: REPORTING.....	13
A. Overview.....	13
B. Cases to Report to the State Registry	13
C. Cases Not Required	15
D. Data Items To Report	16
E. Who Should Submit Reports	18
F. When To Submit Reports	18
G. How To Submit Reports	18
CHAPTER 4: GENERAL DEFINITIONS FOR CODING.....	21
A. Introduction	21
B. Guidelines For Interpretation Of Terminology	21
CHAPTER 5: CODING INSTRUCTIONS	27
Overview.....	27
When To Abstract A Cancer Case	27
General Abstracting Instructions And Definitions	28
State Data Set	29
Reporting Facility ID Number	36
NPI-Reporting Facility.....	37
Abstracted By	38
Type Of Reporting Source.....	39
Suspense Case	41
Patient Last Name	42
Patient First Name.....	43
Patient Middle Name (Middle Initial).....	44
Patient Maiden Name	45
Patient Alias.....	46

Table Of Contents

General Guidelines For Recording Patient Address At Diagnosis	47
Patient Address (Number And Street) At Diagnosis.....	48
Patient Address (Number And Street) At Diagnosis – Supplemental	49
City/Town At Diagnosis	50
State At Diagnosis	51
Postal Code (ZIP Code) At Diagnosis	53
County At Diagnosis	54
Census Tract 2000	56
Census Tract Certainty 2000.....	57
Social Security Number	58
Date Of Birth	59
Date Of Birth Flag.....	60
Age At Diagnosis	61
Place Of Birth.....	62
Birthplace - State	63
Birthplace - Country	64
Medical Record Number	65
Sex.....	66
Primary Payer at Diagnosis	67
Race And Spanish Origin (Race and Ethnicity).....	69
Usual Occupation	72
Usual Industry.....	73
Other Primary Tumor(s).....	74
Date Of First Contact	75
Date Of 1 st Contact Flag	77
Hospital Accession Number	78
Hospital Sequence Number.....	80
Class Of Case.....	83
NPI-Institution Referred From.....	85
NPI-Institution Referred To.....	86
If Diagnosed Elsewhere, Record Where	87
Casefinding Source	88
Date Of Initial Diagnosis	90
Date Of Diagnosis Flag	92
Primary Site	93
Laterality	99
Diagnostic Confirmation	102
Histology	105
Behavior.....	111
Grade/Differentiation	113
Grade Path Value	118
Grade Path System	119
Lymph-Vascular Invasion	120
Description Of Diagnosis	121
Tumor Size	122
Regional Nodes Positive	126
Regional Nodes Examined	128
Summary Stage 2000	129
Overview Of Collaborative Stage (CS) Data Collection system.....	134
CS Tumor Size	137
CS Extension	138
CS Tumor Size/Ext Eval	139
CS Lymph Nodes.....	140
CS Reg Nodes Eval.....	141
CS Mets At DX.....	143
CS Mets Eval	144

Table of Contents

CS Mets at DX-Bone	145
CS Mets at DX-Brain	146
CS Mets at DX-Liver	147
CS Mets at DX-Lung.....	148
CS Site-Specific Factor 1	149
CS Site-Specific Factor 2	151
CS Site-Specific Factor 3	152
CS Site-Specific Factor 4	153
CS Site-Specific Factor 5	154
CS Site-Specific Factor 6	155
CS Site-Specific Factor 7	156
CS Site-Specific Factor 8	157
CS Site-Specific Factor 9	158
CS Site-Specific Factor 10	159
CS Site-Specific Factor 11	160
CS Site-Specific Factor 12	161
CS Site-Specific Factor 13	162
CS Site-Specific Factor 14	163
CS Site-Specific Factor 15	164
CS Site-Specific Factor 16	165
CS Site-Specific Factor 17	166
CS Site-Specific Factor 18	167
CS Site-Specific Factor 19	168
CS Site-Specific Factor 20	169
CS Site-Specific Factor 21	170
CS Site-Specific Factor 22	171
CS Site-Specific Factor 23	172
CS Site-Specific Factor 24	173
CS Site-Specific Factor 25	174
Derived AJCC-6 Items.....	175
Derived AJCC-7 Items.....	176
Derived SS1977.....	177
Derived SS2000.....	178
Substantiate Staging	179
General Rules For TNM Staging	180
Clinical T	182
Clinical N.....	183
Clinical M	184
Clinical Stage Group.....	185
Clinical Stage (Prefix/Suffix) Descriptor	186
Pathologic T	187
Pathologic N	188
Pathologic M.....	189
Pathologic Stage Group	190
Pathologic Stage (Prefix/Suffix) Descriptor	191
Text Fields for Workup	192
General Definitions And Rules For Coding Treatment.....	194
Surgical Diagnostic And Staging Procedure	197
Date Of First Course Of Treatment	199
Date Of First Course Treatment Flag	201
Date Most Definitive Surgical Resection Of Primary Site.....	202
Date Of Most Definitive Surgery Flag	203
Treatment Status	204
General Instructions For RMCDS Treatment Fields.....	205
Surgical Procedure Of Primary Site.....	208
Date Of Surgery Flag.....	212

Table Of Contents

Scope Of Regional Lymph Node Surgery	213
Surgical Procedure/Other Site	216
Reason For No Surgery Of Primary Site	218
Regional Radiation Treatment Modality	219
Date Of Radiation Flag	223
Radiation/Surgery Sequence.....	225
Reason for No Radiation	227
Chemotherapy	228
Date Of Chemotherapy Flag.....	232
Systemic/Surgery Sequence	234
Date Systemic Therapy Started.....	236
Rx Date Systemic Flag	238
Hormone Therapy.....	239
Date Of Hormone Therapy Flag	242
Immunotherapy.....	244
Date Of Immunotherapy (BRM) Flag.....	246
Hematologic Transplant And Endocrine Procedure	248
Other Treatment	250
Date Of Other Treatment Flag.....	252
Description Of Treatment	253
Date Of Last Contact Or Death	255
Date Of Last Contact Flag	256
Vital Status.....	257
Cancer Status	258
Follow-Up Source	259
Cause Of Death	260
Place Of Death - State	261
Place Of Death - Country	262
Remarks	263
Central Tumor Registry Number.....	264
Date Case Report Received (Stamp Date)	265
CHAPTER 6: CORRECTIONS AND FOLLOW-UP	266
Overview	266
Part I: General Instructions	266
A. Purpose	266
B. Who Submits Correction and Follow-Up Reports.....	266
C. When to Submit Corrections and Follow-Up Information	267
D. How to Report Corrections and Follow-Up Information.....	267
E. Where to Send Correction and Follow-Up Reports	268
F. Confidentiality	268
Part II. Follow-Up	268
A. Frequency of Follow-Up	268
B. Cases to Include in Follow-Up.....	268
C. Cases Not to Include in Follow-Up	269
D. Data Fields to Include in Follow-Up.....	269
E. Follow-Up Sources	269
Part III: Instructions For Completing Correction And Follow-Up Form	271
A. Purpose of form	271
B. Patient Identification	271
C. Hospital and Tumor Identification	271
D. Corrections	272
E. Remarks	272
F. Follow-Up Information	272
Part IV: Instructions For Completing Correction Form For Multiple Patients	274
A. Hospital Identification	274

Table of Contents

B. Corrections	274
C. Submitted By and Date.....	274
CHAPTER 7: QUALITY CONTROL.....	275
A. Overview.....	275
Definition	275
Goals	275
Responsibility	275
Components of Quality Control.....	275
B. Assessment/Improvement of Data Accuracy and Completeness	275
1. Observed/Expected Completeness Rates	275
2. Casefinding Audits.....	276
3. Reabstracting Audits	276
4. Recoding Audits	276
5. Quality Control for Newly Submitted Cases	276
6. Consolidation	278
7. Procedure Manual Maintenance	279
8. Staff Training and Development.....	280
9. Feedback and Consultation.....	280
C. Issues Related to Quality.....	280
1. Timeliness of Data.....	280
2. Personnel.....	281
3. Use of References and Edits.....	281
4. Maintenance of Logs and Records.....	281
5. Submitting Correction or Follow-Up	281
6. Other Resources	281
CHAPTER 8: CONFIDENTIALITY	282
A. Overview.....	282
1. Purpose	282
2. Definition.....	282
B. Responsibility.....	282
1. Reporting Source (Hospital or Other Health Care Provider)	282
2. State Registry	282
C. State Registry Policies and Procedures	282
1. Staff Awareness	282
2. Access Control.....	283
3. Data Collection and Management.....	283
4. Disaster Recovery	284
5. Sabotage	284
6. Release of Registry Data.....	284
APPENDIX A: LEGISLATION AND REGULATIONS	287
Indiana Code 16-38-2	287
Indiana Administrative Code – 410 IAC 21-1	290
Public Law 102-515	294
Public Law 107-260	300
APPENDIX B: REPORTABLE LIST.....	302
APPENDIX C: ICD-9-CM CODE SCREENING LISTS FOR CASEFINDING.....	319
APPENDIX D-1: ALPHABETICAL LIST OF FACILITIES WITH IDENTIFICATION NUMBERS	321
APPENDIX D-2: NUMERICAL LIST OF FACILITIES WITH IDENTIFICATION NUMBERS.....	324
APPENDIX E: RULES FOR DETERMINING MULTIPLE PRIMARIES FOR LYMPHATIC AND HEMATOPOIETIC DISEASES.....	327
APPENDIX F: CODING TIPS	335

Table Of Contents

APPENDIX G: SURGERY TREATMENT CODES	336
Definitions and Rules.....	336
Oral Cavity (C00.0 – C06.9)	337
Parotid and Other Unspecified Glands (C07.9 – C08.9)	338
Pharynx (C09.0 – C14.0)	339
Esophagus (C15.0 – C15.9)	340
Stomach (C16.0 – C16.9).....	341
Colon (C18.0 – C18.9).....	343
Rectosigmoid (C19.9).....	344
Rectum (C20.9)	346
Anus (C21.0 – C21.8)	348
Liver and Intrahepatic Bile Ducts (C22.0 – C22.1)	349
Pancreas (C25.0 – C25.9)	350
Larynx (C32.0 – C32.9)	351
Lung (C34.0 – C34.9)	352
Hematopoietic/Reticuloendothelial/Immunoproliferative/Myeloproliferative Disease (C42.0, C42.1, C42.3, C42.4)	353
Bones, Joints, and Articular Cartilage (40.0 – C41.9)	354
Peripheral Nerves and Autonomic Nervous System (C47.0 – C47.9)	354
Connective, Subcutaneous, and Other Soft Tissues (C49.0 – C49.9).....	354
Spleen (C42.2).....	355
Skin (C44.0 – C44.9)	356
Breast (C50.0 – C50.9).....	357
Cervix Uteri (C53.0 – C53.9)	359
Corpus Uteri (C54.0 – C55.9).....	361
Ovary (C56.9)	363
Prostate (C61.9)	365
Testis (C62.0 – C62.9)	366
Kidney, Renal Pelvis, and Ureter (C64.9 – C66.9).....	367
Bladder (C67.0 – C67.9).....	368
Brain and Other Parts of Central Nervous System (C70.0 – C72.9).....	370
Thyroid Gland (C73.9)	371
Lymph Nodes (C77.0 – C77.9).....	372
All Other Sites.....	373
Unknown and Ill-Defined Primary Sites (C76.0 – C76.8, C80.9)	374
APPENDIX H: FIPS CODES FOR COUNTIES IN STATES ADJOINING INDIANA	375
GLOSSARY OF REGISTRY TERMS	379

The Indiana State Cancer Registry Policy and Procedure Manual for Reporting Facilities was written by Jacqueline S. Harber, RHIA, CTR with assistance by Shelley Boltinghouse, RHIA, CTR and Stephen Nygaard of the Indiana State Department of Health and is in the public domain. It is based on the 1995 manual created by Martha Graves, RHIA, CTR (a former program director). The manual itself may be copied all, or in part.

Revised 2015, Indiana State Department of Health.

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INTRODUCTION

A. BACKGROUND

In 1985, the General Assembly of the State of Indiana passed Public Law 174-1985 establishing a cancer registry “for the purpose of recording all cases of malignant disease that occur in Indiana residents and compiling necessary and appropriate information concerning those cases...in order to conduct epidemiologic surveys of cancer and to apply appropriate preventive and control measures.”¹

An advisory committee was established to assist the State Department of Health in creating such a registry. The committee developed the standards for establishing and maintaining the State Cancer Registry. They also helped develop a Policy and Procedure Manual and implemented training throughout the state. Hospitals, physicians, dentists, and medical laboratories began reporting January 1, 1987.

A 1988 amendment to the law allows the State Cancer Registry to release confidential information to another state’s cancer registry if that state has entered into a reciprocal agreement with the State Department of Health. The reciprocal agreement must state that information that identifies a patient will not be released to any other entity without the written consent of the patient.²

In 1991, IC 16-4-9-3 was amended to allow the state to enter into reciprocal agreements with other states in order to exchange data between cancer registries.

In a 1993 amendment, several laws were recodified. No substantial changes were made other than some minor wording changes, such as changing “State *Board of Health*” to “State *Department of Health*.” The current law is IC 16-38-2.

This manual has been revised from the edition released in 1995 to reflect current laws and standards.

B. PURPOSE

The intent of this manual is to serve as a reference for hospitals reporting cases of malignant disease to the State Cancer Registry. The procedures set out in the manual have been developed in accordance with IC-38-2 and 410 IAC 21-1 (Appendix A).

C. DEFINITIONS

The terms *must*, *shall*, and *is required* are used throughout the manual to indicate what is mandatory and the only acceptable method under the law and rule. *Should* is used to reflect commonly accepted practices, yet allows effective alternatives to be used. *May* is used to indicate an alternative that is acceptable, but not necessarily preferred.

D. REFERENCE MATERIALS

This Policy and Procedure Manual serves as a reference which is offered free of charge to reporting entities. For a complete list of required references and other resources, see Chapter 1.

¹ IC 16-4-9 (IC 16-38-2 since 1993)

² IC 16-4-9-6 (IC-38-2-6 since 1993)

E. CONSULTATION

Personnel of the State Cancer Registry are available by telephone and, in special circumstances, on site to provide consultation on all aspects of reporting. These include abstracting, organization and management, cancer registry software education, and updates on cancer data management at the both the state and national level. The Indiana Cancer Registrars Association has graciously offered to serve as a source for consultation, utilizing the expertise of experienced cancer registrars across the state.

F. OUTPUT

The rule for implementing statewide reporting mandates that the State provide each reporting facility a comprehensive annual report which outlines the trends of malignant disease in Indiana. Hospitals, physicians, dentists, medical laboratories, and other persons may request and be provided with individualized special reports as state resources permit.

G. QUALITY CONTROL

The State Cancer Registry monitors data quality through a variety of activities that are described in Chapter 7. The activities include careful monitoring of the number of cases submitted, visual review of abstracts for completeness and accuracy, and extensive electronic edits. Chapter 7 provides policies for clarification and modification of data. Continuing education and policy and procedure updates will focus on issues identified through quality control activities.

In summary, the State Cancer Registry serves as the state's repository of cancer data and an important resource offering a wide spectrum of services to the hospitals, physicians, dentists, and medical laboratories reporting to the State. As a tax supported service to health care professionals and the public, feedback regarding improvements in State Cancer Registry policies and services is welcomed.

CHAPTER 1: REFERENCES

A. REQUIRED REFERENCES

1. Indiana State Cancer Registry Policy and Procedure Manual.
<http://www.in.gov/isdh/24035.htm>
2. International Classification of Diseases for Oncology, Third Edition (ICD-O-3). World Health Organization, Geneva, Switzerland, 2000. ISBN: 9241545348. Effective for cases diagnosed January 1, 2001 forward.
<http://www.who.int/classifications/icd/adaptations/oncology/en/>
3. Multiple Primary and Histology Coding Rules. National Cancer Institute, SEER Program
<http://seer.cancer.gov/tools/mphrules/index.html>
4. Collaborative Stage Data Collection System Coding Instructions.
[http:// https://cancerstaging.org/cstage/Pages/default.aspx](http://https://cancerstaging.org/cstage/Pages/default.aspx)
5. Hematopoietic and Lymphoid Neoplasm Case Reportability and Coding Manual and the Hematopoietic Database.
<http://seer.cancer.gov/tools/heme/index.html>
6. SEER Summary Staging Manual – 2000: Codes and Coding Instructions, National Cancer Institute, NIH Pub. No. 01-4969, Bethesda, MD, 2001. Effective for cases diagnosed January 1, 2001 and forward.
<http://seer.cancer.gov/tools/ssm/>

B. ADDITIONAL RESOURCES

The following list identifies resources that may provide helpful information for use in the collection and abstraction of cancer data.

1. Facility Oncology Registry Data Standards (FORDS) Manual, American College of Surgeons: Commission.
<http://www.facs.org/cancer/coc/fordsmanual.html>
2. SEER*Rx – Interactive Antineoplastic Drugs Database.
<http://seer.cancer.gov/tools/seerrx/>
3. AJCC Cancer Staging Manual, Seventh Edition, American Joint Committee on Cancer (AJCC).
<http://www.cancerstaging.org>
4. Cancer Registry Management: Principles and Practice, Kendall/Hunt Publishing Company, ISBN: 978-0-7575-0192.
<http://www.ncra-usa.org/i4a/pages/Index.cfm?pageID=3469>
5. The Brain Book – Abstracting and Coding Guide for Primary Central Nervous System Tumors, SEER Program, National Cancer Institute
<http://www.ccrca.org/PDF/BrainTumor2.pdf>
6. Data Collection of Primary Central Nervous System Tumors, National Program of Cancer Registries Training Materials, 2004, Center for Disease Control.
<http://www.cdc.gov/cancer/npcr/pdf/btr/braintumorguide.pdf>

7. International Classification of Diseases, Clinical Modification, Ninth Revision, Fourth Edition, (ICD-9-CM), Health Care Financing Administration, Public Health Service, U.S. Department of Health and Human Services, 1991. ISBN: 978-1-45574-569-2. (Available from multiple Web sites by ISBN.)
ICD-10-CM - ISBN: 978-1-62202-212-0.
8. National Program of Cancer Registries Act, Public Law 102-515, October 24, 1992.
<http://www.cdc.gov/cancer/npcr/npcrpdfs/publaw.pdf>
9. The SEER Program Coding and Staging Manual, Revised Edition, National Cancer Institute, National Institutes of Health.
<http://seer.cancer.gov/tools/codingmanuals/>
10. Standards for Cancer Registries, North American Association of Central Cancer Registries (NAACCR).
<http://www.naacr.org/>

Volume I, *Data Exchange Standards and Record Description*. Intended for programmers, this provides the record layout and specifications for the standard for data exchange.
<http://www.naacr.org/StandardsandRegistryOperations/Volumel.aspx>

Volume II – *Data Standards and Data Dictionary*. Intended for hospital and central cancer registries, programmers, and analysts, this provides detailed specifications and codes for each data item in the data exchange record layout.
<http://www.naacr.org/StandardsandRegistryOperations/Volumell.aspx>

Volume III, *Standards for Completeness, Quality, Analysis, and Management of Data*. Intended for central registries, this provides detailed standards for many aspects of the operation of a population-based cancer registry.
<http://www.naacr.org/StandardsandRegistryOperations/Volumelll.aspx>

Volume IV, *NAACCR Standard Edits*. This standard document currently is only made available electronically as a program code and a database. It documents standard computerized edits for data corresponding to the data standards Volume II.
<http://www.naacr.org/StandardsandRegistryOperations/VolumeIV.aspx>
11. Cancer Program Standards 2012: Ensuring Patient-Centered Care, American College of Surgeons Cancer Programs Commission on Cancer
<http://www.facs.org/quality-programs/cancer/coc/standards>
12. Workbook for Staging of Cancer: A Companion Guide to the AJCC Cancer Staging Manual (7th Edition),
<http://www.ncra-usa.org/i4a/pages/index.cfm?pageid=3753>
13. Anatomy, physiology, pathology, and other similar textbooks are invaluable for coding and abstracting of cancer data. Medical dictionaries, such as Dorland's, Stedman's Blakinston's, Melloni's, or Taber's will also be needed.

For information regarding the National Cancer Registrars Association, Inc., write to:

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C. HISTORIC REFERENCES

International Classification of Diseases for Oncology, Second Edition (*ICD-O-2*). World health Organization, Geneva, Switzerland, 1990. Effective for cases diagnosed through 2000.

SEER Summary Staging Guide - Cancer Surveillance, Epidemiology, and End Results Reporting Program, April 1977 (Reprinted July 1986). Effective for cases diagnosed through 2000.
http://seer.cancer.gov/archive/manuals/historic/ssm_1977.pdf

SEER Program: Self-Instructional Manuals for Tumor Registrars; Surveillance, Epidemiology, and End Results (SEER) Program Informational Guidebook Training Aids. This series of books was published in the 1990's as a mechanism for tumor registrars to learn the procedures for abstracting from medical records of cancer patients and for carrying out functions in the institution-based tumor registry. They are available on-line in both PDF and ZIP formats. If you experience problems downloading any of the files, you may [order the manuals on CD-ROM](#).

<http://seer.cancer.gov/training/manuals/>

The set consists of:

- Book One* - *Objectives and Functions of a Tumor Registry, 1999.*
- Book Two* - *Cancer Characteristics and Selection of Cases, 1991.*
- Book Three* - *Tumor Registrar Vocabulary: The Composition of Medical Terms, 1992.*
- Book Four* - *Human Anatomy as Related to Tumor Formation, 1995.*
- Book Five* - *Abstracting a Medical Record: Patient Identification, History, and Examinations, 1993.*
- Book Six* - *Classification for Extent of Disease, 1977.(Out of print)*
- Book Seven* - *Statistics and Epidemiology for Tumor Registrars, 1994.*
- Book Eight* - *Antineoplastic Drugs, Third Edition, 1993.*

To obtain the additional resources, call or write the publisher directly or call the State Cancer Registry for more information.

CHAPTER 2: CASEFINDING & SETTING UP A REGISTRY

A. OVERVIEW

The accuracy of a statewide database is dependent on the timeliness and completeness of casefinding (the identification of reportable cancer cases) at the hospital level. A variety of casefinding methods must be used since no single method can encompass all the possible medical resources used by cancer patients.

B. REPORTABLE LIST

A reportable list identifies diagnoses that will be included in the registry and those that are to be excluded. The hospital's administration, cancer committee, and physicians; American college of Surgeons' Cancer Program Manual; and the State Policy and Procedure Manual should be consulted when developing the reportable list. Appendix B contains the State reportable list. All diagnoses on the list must be reported to the State Registry. The hospital cancer committee may decide to collect additional diagnoses not on the list, called "Reportable-by-Agreement" cases (e.g., squamous cell carcinomas of the skin). These cases do not need to be reported to the State Registry.

C. METHODS OF CASEFINDING

Definition

Casefinding is a systematic method of identifying all reportable cancer cases. For a hospital, the cases include all patients diagnosed or treated in a hospital, both inpatient and outpatient, during the first course of therapy. Cases identified at autopsy must also be reported.

Responsibility

To assure consistency and completeness, casefinding should be the responsibility of one hospital department that has access to patients' medical records and the appropriate hospital reports and listings. For this reason, the function is most commonly performed in the medical record department. However, it may be performed elsewhere, such as pathology, radiation therapy, oncology, or nursing department, provided there is ready access to the necessary records and a central place for record keeping. The person responsible for casefinding should have a knowledge of medical terminology, especially in the field of cancer diagnosis and treatment. Interdepartmental communication and cooperation are essential for complete casefinding.

Sources of Casefinding

The following are potential sources of cancer patient identification. Other sources, not listed here, may be appropriate, depending on the administrative structure of the hospital. To ensure that all potential sources of case identification are addressed, facilities should use the health information data systems and/or billing systems to print lists of cancer-related diagnostic codes. Casefinding should not be limited to a review of pathology reports. As potential cases are identified, the patient's name and medical record number should be recorded for retrieval of the entire medical record.

1. Pathology and Cytology Departments

- Pathology reports, including reports with negative findings
- Bone marrow biopsies
- Histology reports
- Cytology reports
- Hematology reports
- Autopsy reports
- Pathology logs
- Pathology appointment registers

Most newly diagnosed cancer patients have a biopsy or surgical procedure for which a pathology report is written identifying and classifying the excised specimen. All pathology reports, along with the clinical summary, should be read to identify cases. Cases in which only specimens were reviewed by the reporting hospital may never have a medical record. The coded final histologic diagnoses (in SNOMED) should be reviewed. Sometimes a programmer can prepare a list containing only malignancies.

A negative pathology or cytology report may be a hidden source for finding certain cases. If an excisional biopsy was performed in a physician's office and the patient was later referred to the hospital for additional treatment, the pathology report may be negative if no further cancer was detected. The case should still be reported to the State Registry by the hospital because the patient was referred to the hospital for further diagnosis or treatment.

Example #1: A physician diagnoses a melanoma and performs the excisional biopsy in the office. The patient is then admitted to the hospital for a wide excision. The pathology report does not show any malignancy. Although the pathology report is negative, the case should be reported to the State Registry by the hospital because the patient was referred to the hospital for additional treatment.

Example #2: A physician performs a lumpectomy for breast cancer in the office. The patient is later admitted to the hospital for a modified radical mastectomy. No residual tumor was noted on the pathology report. The hospital must report this case to the State Registry, even though the pathology report is negative.

2. Health Information Management Department (Medical Record Department)

- Inpatient records
- Outpatient records
- Disease or diagnostic index
- Computerized listings of specific cancer-related ICD-9-CM codes
- Operation index
- Admitting lists
- Discharge lists

Health information management department personnel may assist in case identification in a number of ways. A regular listing of all cancer cases may be helpful in casefinding. Working with personnel responsible for assembly and analysis of records upon discharge may identify patients overlooked through other reviews. Coders could flag all medical records with malignant diagnoses for review by the Cancer Registrar. If feasible, direct review of all medical records by the cancer registrar assures more complete casefinding. Appendix C lists the ICD-9-CM codes that should be reviewed for eligible cases.

3. Bill and Insurance Department (Patient Accounts)

- Print-outs listing cancer-related diagnostic codes

Hospital and/or departmental billing systems use diagnostic codes for billing purposes. Computerized billing systems may be used to generate lists of cancer-related diagnostic codes. See Appendix C of this manual for a list of cancer-related codes. Cancer registrars should work with billing department personnel to assess the capabilities of the system and develop the parameters of the report. The process may involve the computer vendor.

4. Radiology Department

- Radiation therapy treatment summaries
- Radiation therapy new patient listings
- Radiation therapy log
- Radiation therapy schedule
- Radiation oncology records

- Nuclear medicine reports
- Nuclear medicine log
- Nuclear medicine schedule
- Diagnostic radiology reports
- Scans

The radiation therapy department can be an important source of casefinding since many patients are treated solely as outpatients and may be missed by other casefinding methods. Radiology records should be made available to the person responsible for casefinding, by either providing copies of the reports or permitting access to the radiation therapy department's patient records. A periodic review of the department's therapy log or schedule will serve as a quality control check and help ensure completeness of casefinding.

5. Outpatients/Clinics/ER

- Ambulatory/outpatient surgery records
- Day surgery logs
- Outpatient scheduling logs
- CPT codes on outpatient records
- Emergency room records/logs
- ENT (ear, nose, throat) clinic records
- Eye clinic records
- Skin (melanoma, others) clinic records
- Mycosis fungoides clinic records
- OB/GYN clinic records
- AIDS/Kaposi's sarcoma clinic records

If outpatient records are not filed in the medical record department, arrangements should be made with the applicable departments and clinics for access to the patient records at a mutually convenient time.

6. Cancer Conference/Tumor Board

The cancer committee of a hospital is responsible for conducting cancer conferences (tumor boards) to provide consultative services to patients and to educate the medical staff. Attendance at these conferences or review of minutes may identify additional cancer patients.

7. Other Sources of Casefinding

- Operation/surgery log
- Operation/surgery schedule
- Oncology/Hematology records
- Chemotherapy logs
- Staff physician's office

Preventing Duplicates

All cancer patients who have been identified by any of the methods described above should be checked against cases in the suspense system (Chapter 2, section D) and the patient index (Chapter 2, section F). If a patient's name is found in either of these places with the same primary cancer, the case has been identified previously and should not be added to the database. These patients may be readmissions for additional treatment, recurrence, progression of or persistent disease, or follow-up.

The information obtained through casefinding should be preserved and used to help complete the abstract (if the case was found in the suspense system) or to complete follow-up (if the case was found in the patient index), if applicable.

D. SUSPENSE SYSTEM

Definition

A suspense system is a file or a list of cancer cases that have been identified but have not yet been completely entered, abstracted, or accessioned into the registry. The file or list serves as a method for keeping track of identified cancer patients until the abstracts are complete.

Purpose

The suspense system has two functions:

- To avoid duplicate case identification, and;
- To serve as a quality control check to assure that over a period of time, all identified cases have been abstracted.

Organization

For convenience in duplicate checking, the suspense system should be arranged alphabetically by month of case identification.

Patient data should include:

- Patient name
- Date of diagnosis
- Medical record number
- Cancer primary site

A paper abstract with the above information could be used as the suspense system, or an index card could be completed. The abstracts or cards should be filed alphabetically.

If the patient index described in Section F. is maintained on cards, these cards could be partially completed and used in a suspense file. Once the case is fully abstracted, the card in the suspense file could be moved to the alphabetic patient index and the rest of the information completed.

A suspense system can also be set up in the Rocky Mountain Cancer Data System (RMCDs) program. As much information as is initially known about the patient is entered (e.g., name, medical record number, admission date, etc.). In the "Suspense" field, code 1 is entered to indicate the case is in suspense. Records with suspense code 1 are excluded when extensive edits are applied. When the full case is later abstracted, the suspense code 1 should be changed to zero (0) and the edits should be applied. A list can be printed at any time of all patients with suspense code 1 to ensure abstracting has been completed for all cases in the suspense file.

E. ACCESSION REGISTER

Definition

The accession register is an annual, sequential listing of all reportable cases included in a hospital's cancer registry. It serves to identify, count, and evaluate the annual caseload. The register can be used to audit other registry files, monitor casefinding, assess the workload, and verify patient identification.

Description

The following items should be included in the accession register:

1. Accession number

The first four digits of the accession number should specify the year that the patient was first seen at the reporting hospital for the diagnosis and/or treatment of cancer following the registry's reference date. The last five digits are a number each case is assigned in sequential order, beginning with 00001 at the start of each new calendar year. Detailed instructions on accession numbers can be found in Chapter 5.

2. Sequence number
Sequence numbers indicate the chronological order of the diagnoses of independent, primary malignancies or reportable benign tumors that occur over the patient's lifetime. Detailed instructions on sequence numbers can be found in chapter 5.
3. Patient name
4. Primary site
5. Date initial diagnosis (or date first seen at the reporting institution)
6. Class of case (optional; see item description in Chapter 5 for further information)

A sample page follows, but the hospital should design their accession register according to their own needs.

Accn. Year & Number	Seq.	Name	Primary Site	Date of Diagnosis	Class
201200001	00 01	Brown, John Q.	prostate	01/02/2012	1
201200002	00	Smith, Susan	lung	01/15/2012	0
199700150	02	Jones, Mary (patient's first primary was in 1997)	breast	02/07/2012	1
201200003	00	Green, George	pancreas	03/24/2012	2
201200001	02	Brown, John Q. (patient's first primary was 200100001)	kidney	04/08/2012	1
201200004	00	Washington, Martha	colon	04/21/2012	0

An explanation of how the registry would assign the accession numbers in the 2012 table above follows:

1. 201200001-00 (for the patient's first primary malignancy)
2. 201200002-00
3. 199700150-02 (A patient whose first primary was entered in the registry in 1997 retains the original accession number and only the sequence number changes.)
4. 201200003-00
5. 201200001-02 (For the patient's second of two primaries in 2012, the patient's original accession number remains the same, but the sequence number for his first primary must be changed from 00 to 01.)
6. 201200004-00

The final (highest) accession number for a year will not necessarily be the total number of new cases that year. Patients admitted with new primaries and who had accession numbers assigned in a previous year will be listed but using the original number and therefore will not be counted in the current year's sequence of accession numbers.

F. PATIENT INDEX

Definition

The patient index is a complete alphabetical file or list of all patients, living or dead, identified and reported by the hospital since the reference date (starting date for reporting). Before a patient is added to the registry, the patient index should be checked to see if the patient has already been accessioned.

Description

The following data items must be included in the patient index:

Name
 Date of birth
 Sex
 Medical record number
 Accession number
 Date of death
 Sequence number (for each primary site)
 Date of diagnosis (for each primary site)
 Laterality (for each primary site)
 Site (for each primary site)
 Histology (for each primary site)

Below is a sample patient index entry, but the hospital should design their file according to their own needs.

Name:_____	DOB:_____	Sex:_____
MR#:_____	Accn No:_____	Date of Death:_____
Seq:_____	Dx Date:_____	Laterality:_____
ICD-O-3 Site:_____	Histology:_____	
Seq:_____	Dx Date:_____	Laterality:_____
ICD-O-3 Site:_____	Histology:_____	
Seq:_____	Dx Date:_____	Laterality:_____
ICD-O-3 Site:_____	Histology:_____	

There should be only ONE entry or card per patient in the patient index. All independent primaries in the same patient are included on the same entry or card. The index should be maintained in alphabetic order and be retained indefinitely.

G. FILING

Hospitals reporting by paper abstracts should keep the **original** abstract form and submit a **copy** of the abstract form to the State Cancer Registry (see Chapter 3). The most efficient filing system for hospitals reporting on paper abstracts is filing all cases in ascending numerical order by the first two digits of the primary site code.

Example: All patients with cancer of the small intestine (C17._) are filed before all patients with cancer of the colon (C18._).

Within each site, cases are separated by accession year. Within each accession year, cases are filed alphabetically.

Example: All patients with colon cancer in 1994 will be filed alphabetically behind all patients with colon cancer in 1993.

The file of abstracts in site order could serve as a primary site index, making records more easily retrievable for studies.

The original abstract, any copies of it, and associated documentation must be regarded as confidential medical records and their storage should comply with applicable hospital and state regulations for confidentiality and security of records. Abstracts should be retained indefinitely.

CHAPTER 3: REPORTING

A. OVERVIEW

This chapter explains the cases and types of diagnoses to be reported, who should submit abstracts, when abstracts should be submitted, and how they should be submitted.

B. CASES TO REPORT TO THE STATE REGISTRY

1. General Requirements

- All confirmed cases of reportable tumors diagnosed and/or initially treated in Indiana must be reported to the State Cancer Registry, as specified in this section. Reportable diagnoses are listed in Appendix B.
- Confirmed cases include clinically diagnosed patients (not microscopically confirmed) as well as microscopically confirmed diagnoses. If a recognized medical practitioner documents that a patient has cancer, the diagnosis is reportable. Terms that constitute a clinical diagnosis can be found in Chapter 4.
- Reportable cases include inpatients and outpatients (including hospital-affiliated ambulatory care settings).

2. Required Cases

- a. In situ and frank malignancies – those with an *International Classification of Diseases for Oncology, Third Edition, 2000 (ICD-O-3)* fifth digit behavior code of /2 or /3. These diagnoses appear on the Reportable List of Malignancies in Appendix B.

Exceptions (Not Reportable):

- Preinvasive cervical neoplasia (CIS and CIN III) diagnosed 01/01/2003 or later;
 - Prostatic intraepithelial neoplasia, grade III (PIN III) diagnosed 01/01/2003 or later;
 - Basal cell and squamous cell carcinoma of skin (*ICD-O-3* primary site codes C44.0-C44.9 with histology codes 8000-8110) diagnosed 01/01/2003 or later.
- b. If diagnosed before 01/01/2003, basal cell and squamous cell carcinoma of skin (*ICD-O-3* primary site codes C44.0-C44.9 with histology codes 8000-8110) that meets at least one of the following conditions at the time of diagnosis:
- (1) Primary tumor more than 5 centimeters in greatest dimension;
 - (2) Primary tumor that has invaded deep extradermal structures such as cartilage, skeletal muscle, or bone;
 - (3) Primary tumor with regional node metastases;
 - (4) Primary tumor with metastasis to distant sites.
- c. Basal cell and squamous cell carcinoma (*ICD-O-3* histology codes 8000-8110) that originates in a mucous membrane site:
- Lip C00.0 – C00.9
 - Anus C21.0
 - Labia C51.0 – C51.1
 - Clitoris C51.2
 - Vulva C51.8 – C51.9
 - Vagina C52.9
 - Prepuce C60.0
 - Penis C60.1 – C60.9
 - Scrotum C63.2
- d. Juvenile astrocytoma, listed as 9421/1 in *ICD-O-3*, is required and should be reported as 9421/3.

- e. The *ICD-O-3* code for Carcinoid tumor, NOS, of appendix (8240/1) is obsolete in 2015. Carcinoid tumors of the appendix must be coded to 8240/3 and are required to be reported.
- f. All benign and borderline (behavior codes /0 and /1) intracranial and central nervous system tumors diagnosed January 1, 2004 or later. (*ICD-O-3* primary site codes C70.0-C72.9, C75.1-C75.3.)
- g. Analytic cases (see Item 28 in Chapter 5 for further information on analytic and nonanalytic cases). Analytic cases include the following:
 - (1) All new malignancies diagnosed at the reporting facility on or after January 1, 1987 (class of case 00).
 - (2) All malignancies initially diagnosed and treated at the reporting facility for all or part of the first course of treatment on or after January 1, 1987 (class of case 10, 13, or 14).
 - (3) All malignancies initially diagnosed in a staff physician's office on or after January 1, 1987 and treated at the reporting facility for all or part of the first course of treatment (class of case 11 or 12).
 - (4) All malignancies initially treated at reporting facility for all or part of the first course of treatment on or after January 1, 1987 (class of case 20, 21, or 22).

This includes patients who previously have been diagnosed with a cancer prior to January 1, 1987 and have a new primary malignancy diagnosed at the reporting facility on or after January 1, 1987. (Only the new malignancy diagnosed on or after January 1, 1987 must be reported to the State Cancer Registry.) Do not report the malignancy diagnosed before January 1, 1987.

- h. Nonanalytic class of case 32 diagnosed on or after January 1, 1987. Class 32 includes cases first diagnosed elsewhere and all of the first course therapy elsewhere. The reporting facility diagnosed and/or treated the recurrence or progression of a malignancy diagnosed January 1, 1987 or later.
- i. Cases with diagnoses (for example, VIN III), required by the State, but not by CoC that are diagnosed and/or treated at the reporting facility on or after January 1, 1987 (Nonanalytic class of case 34 or 36).
- j. Nonanalytic class of case 35 or 37 diagnosed on or after January 1, 1987. Class 35 or 37 includes cases first diagnosed and/or first course of therapy at the reporting facility before the registry's reference date. Class of case 35 or 37 would be applicable only for a registry with a reference date later than 1987.

Example 1: Hospital A changed their reference date from 1987 to 1992. In 1993, a patient is admitted who was diagnosed and treated for a melanoma at Hospital A in 1990 and has returned for a recurrence. The case is class 35 for the hospital and should be reported to the State Registry in 1993 if not previously reported when diagnosed.

Example 2: Hospital A changed their reference date from 1987 to 1992. In 1993, a patient is admitted with a second primary. The first primary, treated at Hospital A in 1990, is class of case 37 for the hospital and should be reported to the State Registry in 1993 if not previously reported when diagnosed.

- k. Patients first diagnosed at autopsy (Nonanalytic class of case 38).
- l. Patients diagnosed and treated only in a staff physician's office (Nonanalytic class of case 40 or 41). Reportable by the hospital only if the hospital collects class 40 and 41 cases. Otherwise, reportable by the physician's office.

m. The types of cases list below are reportable to the State Registry, though not reportable by CoC. Since documentation for these cases may be limited, report all information available either in your usual format, by paper abstract, or by sending copies of pertinent medical record documentation.

(1) Pathology-only cases (Nonanalytic class of case 43).

(2) Patients seen in consultation to confirm a diagnosis or first course treatment plan (Nonanalytic class of case 30). This includes cases where a patient is seen only once at the reporting hospital with an abnormal or positive appearing x-ray or scan, but the patient never returns for any work-up, confirmation of diagnosis, or treatment.

Example: A patient comes to the institution for a second opinion. Staff physicians order diagnostic tests and support the original treatment plan. The patient returns to the other institution for treatment.

C. CASES NOT REQUIRED

1. Cases with an *International Classification of Diseases of Oncology, Third Edition, 2000 (ICD-O-3)* fifth digit behavior code of /0 (benign) or /1 (uncertain or borderline), which are the codes for precancerous conditions or benign tumors.

Exceptions (Reportable):

- Juvenile astrocytoma, listed as 9421/1 in *ICD-O-3*, is required and should be reported as 9421/3.
- All benign and borderline intracranial and central nervous system tumors diagnosed January 1, 2004 or later are reportable. (*ICD-O-3* primary site codes C70.0-C72.9, C75.1-C75.3.)
- Carcinoid tumor, NOS, of appendix, listed as 8240/1 in *ICD-O-3*, is required effective 2015 and should be coded to 8240/3.

2. If diagnosed 01/01/2003 or later, all basal cell and squamous cell carcinoma of skin (*ICD-O-3* primary site codes C44.0-C44.9 with histology codes 8000-8110).

If diagnosed before 01/01/2003, basal cell and squamous cell carcinoma of skin that are in situ or that are invasive and 5 centimeters or less in greatest dimension with no lymph node or distant metastasis.

3. Analytic cases (class of case codes 00-22) who were first diagnosed or first treated at the reporting facility on or after January 1, 1987 and return to the facility for:

- a. A recurrence of that same primary;
- b. Subsequent treatment;
- c. Progression of recurrent disease (disease free period); or
- d. Continued or persistent disease (never disease free).

Note: An abstract would have been submitted when the patient was first diagnosed or first treated. Once a case has been accessioned into a registry, it is not re-accessioned or reported if the patient returns to the hospital for that same primary.

4. Nonanalytic class of case 30-33 diagnosed before January 1, 1987. Class 30-33 includes cases first diagnosed elsewhere and all of the first course therapy elsewhere. If the reporting facility is treating the recurrence or progression of a malignancy diagnosed before January 1, 1987, the case should not be reported to the state.

5. Nonanalytic class of case 35 and 37 diagnosed before January 1, 1987. Class 35 and 37 includes cases diagnosed and/or first course of therapy at the reporting facility before the registry's reference date. Patients with the following situations would be non-reportable class of case 35 and 37:

Patients first diagnosed before January 1, 1987 who:

- a. Received no treatment after being diagnosed;
- b. Received first course of treatment before January 1, 1987;
- c. Received first course of treatment before January 1, 1987 and subsequent treatment on or after January 1, 1987;
- d. Received first course of treatment before January 1, 1987 and had a recurrence of that same primary on or after January 1, 1987.

6. Patients who receive transient care to avoid interrupting a course of therapy started elsewhere (class of case 31). Please verify with the State Cancer Registry that such patients who are Indiana residents have been reported by the other facility.

Example 1: A patient is visiting relatives in the area. The oncology department at the reporting facility dispenses the scheduled chemotherapy.

Example 2: Another institution sends a patient to the reporting facility because of equipment failure. The reporting facility administers the radiation therapy until the equipment is repaired. The patient returns to the original institution to complete therapy.

7. Patients with active cancer who are admitted for an unrelated medical condition. Please verify with the State Cancer Registry that such cases have been reported.

Example: A patient with active prostate cancer enters the reporting facility's cardiac care unit for cardiac care only.

8. Patients with a history of cancer who currently have no evidence of the disease. Please verify with the State Cancer Registry that such cases have been reported.

9. Patients admitted to a designated hospice unit or home care service. Please verify with the State Cancer Registry that such cases have been reported.

10. Patients admitted for terminal supportive care only. Please verify with the State Cancer Registry that such cases have been reported.

11. Class of case 49 (diagnosed by death certificate only). The State Cancer Registry will collect cancer data on these patients after all reasonable efforts to obtain information from a health care provider have failed.

12. Residents of a foreign country.

13. Annual follow-up on all cases (optional reporting).

14. Hospitals may abstract cases that are not required by the State Registry, but are important for their own clinical, administrative, management, or marketing purposes. These patients often receive services and use the resources of the hospital (e.g., chemotherapy, radiation, lab tests, etc.). These cases should not be reported to the State Registry. Examples include non-reportable localized basal cell carcinoma of the skin and class 35 or 37 cases diagnosed before 1987.

D. DATA ITEMS TO REPORT

1. Analytic Cases

Required and optional data items to report to the State Registry for analytic cases are identified in Chapter 5 of this manual. The items are listed in a table of the State data set in Chapter 5 and are presented in the pages following the table with descriptions, codes, formats, definitions, rules, and instructions.

2. Reportable Nonanalytic Cases

Since hospitals may have limited information about nonanalytic cases (reportable if diagnosed after January 1, 1987), a minimal data set for these cases is presented in the table below. Apply the codes, definitions, and rules in chapter 5 for these items and record them in either the paper or a computerized abstract. If the information for an item is not available, leave the item blank or code it according to the vendor's instructions for "unknown."

No.	Item	Notes
1.	Reporting hospital	ID number
2.	Abstracted by	Abstractor's initials
3.	Type of reporting source	
4.	Patient last name	
5.	First name	
6.	Middle name	
7.	Maiden name	If known
8.	Alias	If known
9.	Street address at diagnosis	<u>Not</u> current address; if unknown, record "unknown"
11.	City/town at diagnosis	<u>Not</u> current city/town; if unknown, record "unknown"
12.	State at diagnosis	<u>Not</u> current state; "ZZ" if unknown
13.	ZIP code at diagnosis	<u>Not</u> current ZIP; if unknown, record 9's
14.	County at diagnosis	<u>Not</u> current county; if unknown, record 9's
15.	Social Security Number	If known; if unknown, record 9's
16.	Date of birth	If known; if unknown, record 9's
18.	Medical record number	
19.	Sex	
20.	Race/Spanish origin	At least race, if known
23.	Other primary tumor(s)	If known
24.	Date of first contact	At your hospital for this tumor
25.	Accession year this primary	
26.	Hospital accession number	If assigned
27.	Sequence number	
28.	Class of case	
29.	Referred from	If known
31.	If diagnosed elsewhere, record where	Name, phone number, and address of diagnosing physician, lab, clinic, etc., if known
32.	Date of initial diagnosis	If unknown, estimate year
33.	Primary site	<u>Not</u> metastatic site
34.	Laterality	For original, primary site, if known
35.	Diagnostic confirmation	If known
36.	Histology/behavior/grade	For original, primary site, if known
37.	Description of diagnosis	Narrative text of site and histology, if known
69.	Description of treatment	Narrative text, if known
70.	Date of last contact/death	
71.	Vital status	

No.	Item	Notes
72.	Cancer status	If known
73.	Remarks	Any other pertinent information

E. WHO SHOULD SUBMIT REPORTS

The hospital that first diagnoses a case in 1987 or later is responsible for submitting an abstract to the State Cancer Registry.

A hospital that performs part or all of the first course treatment for cases diagnosed in 1987 or later is responsible for submitting an abstract to the State Cancer Registry.

A hospital that treats recurrence or progression of a malignancy first diagnosed elsewhere in 1987 or later and all of first course of treatment performed elsewhere is responsible for submitting an abstract to the State Cancer Registry.

The staff physician's office is considered an extension of the hospital. Cases of patients who are diagnosed or treated in a staff physician's office and referred to the hospital for definitive therapy must be reported as though they were diagnosed at the hospital. If these patients were referred to another institution for their first course of treatment, then their cases need not be included. Patients diagnosed and treated only in a staff physician's office (class of case 40 or 41) are to be reported if such cases are collected by the hospital. If not reported by the hospital, these cases must be reported by the physicians' offices.

When the distinction between a hospital-based department and a free-standing facility cannot readily be made (e.g., a radiation therapy group practice versus a hospital unit) the ownership of the medical record should be used to determine whether a case must be reported by the hospital. The owner of the medical record is responsible for reporting the case to the State Cancer Registry..

F. WHEN TO SUBMIT REPORTS

Facilities must complete and submit reports of confirmed cases of reportable tumors to the State Cancer Registry no later than six (6) months following the date the patient comes under the care of the reporting facility. Facilities should report on a schedule based on the size of their annual caseload. The minimum reporting requirements for each caseload range is provided in the table below. More frequent reporting is encouraged so that the State database remains as current as possible for analytic purposes.

REPORTING SCHEDULE	
Average Number of Cases Diagnosed per Year	Minimum Frequency for Reporting to the State
1-59	Once per year
60-149	Quarterly
150-299	Every other month
≥ 300	Every month

G. HOW TO SUBMIT REPORTS

1. Hospitals With Computerized Systems

- a. Hospitals with computerized registries should submit reports to the State Cancer Registry in an acceptable, machine-readable format (RMCDS format for hospitals using RMCDS)

software and NAACCR format for those using other systems) within the time frame described in this chapter.

- b. Make sure all cases abstracted since the previous submission are selected for each new submission. Selecting cases by a range of accession numbers will omit patients with an earlier accession number who have a new primary. Contact your software vendor for procedures to ensure all cases are reported to the State Cancer Registry.
- c. **Submitting by FTP Program**
The preferred method for submitting data is to use the ISCR FTP Program that encrypts your data file and sends it to the ISCR through the Internet using the File Transfer Protocol (FTP). If your facility prohibits or limits the use of FTP, the program can also send the encrypted file as an e-mail attachment. The method meets government security requirements. Contact the State Cancer Registry to obtain procedures for submitting data by using the FTP Program.
- d. **Submitting by Web Plus**
An alternate method is to use the Web Plus program that securely uploads your file through a browser. The method also meets government security requirements. Contact the State Cancer Registry to obtain procedures for submitting data by using Web Plus
- e. **Submitting on Diskettes**
Effective July 2009 the State Cancer Registry can no longer process data submitted on diskettes.
- f. Ensure that the contents of computerized abstracts are treated with the same level of security and confidentiality as the medical record. The abstracts are abbreviated medical records and should be treated as such. A full discussion of confidentiality is found in Chapter 8 of this manual.
- g. The hospital should keep a record of cases submitted to the State. The State Cancer Registry personnel will keep track of the date, number of disks, and number of cases received from each hospital.

2. Hospital Using Paper Forms

- a. Hospitals should submit reports to the State within the time frame described in this chapter, using the "Hospital Abstract" form designed and approved by the State Cancer Registry. Computerized registries may use the form to submit reportable nonanalytic cases that are not abstracted into their registry systems.

Forms may be obtained, free of charge, by calling or writing the State Cancer Registry.

Marsha Lundy	Office: (317) 233-7158
Indiana State Cancer Registry	Fax: (317) 233-7722
Indiana State Department of Health	E-mail: mlundy@isdh.in.gov
2 North Meridian Street, Section 6-B	
Indianapolis, IN 46204-3010	

- b. Attach a copy of the pathology report to the abstract form. State Cancer Registry staff need the reports to substantiate the codes.
- c. When sending in more than one abstract for multiple tumors on a patient, do not staple abstracts on different tumors together, as they may be overlooked. Do staple copies of medical record documentation about the reported tumor to the applicable abstract.

- d. The hospital should make a legible copy of the original abstract and mail the copy to the State Cancer Registry, keeping the original at the hospital. Illegible abstracts will be returned to the hospital.
- e. Ensure that abstracts are treated with the same level of security and confidentiality as the medical record. The abstracts are abbreviated medical records and should be treated as such. A full discussion of confidentiality is found in Chapter 8 of this manual.
- f. The hospital should keep a record of abstracts mailed to the State Cancer Registry, noting the date and number submitted. The State Cancer Registry personnel will keep track of the number of abstracts and date received from each hospital.
- g. Envelopes containing copies of the abstracts should be carefully sealed and labeled "CONFIDENTIAL MEDICAL INFORMATION." The envelope should be clearly addressed:

Indiana State Cancer Registry
Indiana State Department of Health
2 North Meridian Street, Section 6-B
Indianapolis, IN 46204-3010

3. Other Forms

- a. Correction and Follow-Up Form
Chapter 6 of this manual describes a "Correction and Follow-Up Form" and instructions for completing it. Corrections or annual follow-up data on previously submitted Hospital Abstracts may be reported on this form.
- b. Correction Form for Multiple Patients
Chapter 6 also describes a "Correction Form for Multiple Patients" and instructions for completing it.

These forms may be obtained by calling or writing the State Cancer Registry.

CHAPTER 4: GENERAL DEFINITIONS FOR CODING

A. INTRODUCTION

The State Cancer Registry uses definitions published by national standard-setting organizations in order to ensure that its instructions and the data collected are consistent with those from other registries. The standard-setting organizations include the American College of Surgeons, Commission on Cancer (ACoS/CoC); the North American Association of Central Cancer Registries (NAACCR); and the National Cancer Institute's SEER (Surveillance, Epidemiology, and End Results) program.

B. GUIDELINES FOR INTERPRETATION OF TERMINOLOGY

The overall priority for using information to determine tumor involvement is pathological, operative, then clinical findings. The medical practitioner may use ambiguous terms when describing a clinical diagnosis or extent of disease in relation to tumor invasion of an organ or structure, especially when there is no cytologic or histologic proof of disease extension. When there are questions concerning terminology, consult with a physician or pathologist. The following lists should be used when the terminology is vague or ambiguous.

Terms That Indicate Clinical Diagnosis or Tumor Involvement/Extension

- adherent to
- apparent
- apparently
- appears to
- comparable with
- compatible with
- consistent with
- contiguous/continuous with
- encroaching upon
- extension - to, into, onto, or out onto
- favor(s)
- features of
- fixation (to another structure)
- fixed (involvement of other organ/tissue)
- impending perforation of ²
- impinging upon ²
- impose, imposing on ²
- incipient invasion
- induration (for breast cases)
- infringe, infringing ²
- into
- intrude
- invasion - to, into, onto, or out onto
- malignant appearing
- matted (for lymph nodes only)
- most likely
- neoplasm (only for C70.0-C72.9, C75.1-C75.3 diagnosed 01/01/04 and later)
- obliterate
- onto
- out onto
- overstep ²
- presumed
- probable
- probably
- protruding into (unless encapsulated)
- suspect
- suspected
- suspicious (for) ¹
- to
- tumor (only for C70.0-C72.9, C75.1-C75.3 diagnosed 01/01/04 and later)
- violate
- typical of
- up to

Example: A chest x-ray is consistent with a carcinoma of the right upper lobe. Final diagnosis is probable carcinoma of the right lung. The case should be abstracted and reported.

¹ **Exception:** If a cytology specimen is reported as "suspicious," do not interpret this as a diagnosis of cancer unless it is confirmed by a positive biopsy or a physician's clinical assessment.

² These terms are considered involvement by the SEER Program and non-involvement by the Statistical Analysis and Quality Control Center at Fred Hutchinson Cancer Research Center in Seattle, WA. Consult the attending physician regarding these terms.

Terms That Do Not Indicate Clinical Diagnosis or Tumor Involvement

- abuts
- along side
- approaching
- approximates
- attached
- borders on
- cannot be excluded/ruled out
- efface, effacing, effacement
- encased, encasing
- encompass(ed)
- entrapped
- equivocal
- extending up along
- extension over
- extension to without invasion/involvement of
- kiss, kissing
- matted (except for lymph nodes)
- next to
- possible
- potentially malignant
- questionable
- reaching
- rule out
- suggests
- up along
- up over
- very close to
- without perforation of
- worrisome

Example: The final diagnosis is possible carcinoma of the breast. This case should not be abstracted and reported

CHAPTER 5: CODING INSTRUCTIONS

OVERVIEW

An abstract is a summary of pertinent information about the patient, the cancer, the treatment, and outcome. A paper abstract for reporting such information is available for facilities with non-computerized registries. An abstract is used to collect the following three categories of information:

Patient and Hospital Identification

This includes data items related primarily to demographic information about the patient and hospital-specific information.

Cancer Identification

This includes data items related primarily to information about the patient's tumor or cancer.

Treatment Data

This includes treatment data and follow-up information.

Chapter 5 explains how to complete each item within the three categories. Rules and codes for recording the information are consistent with the *Facility Oncology Registry Data Standards (FORDS)* to the extent possible and apply to both paper and computer abstracting unless they conflict with an alternative software vendor's instructions. As with the *FORDS*, abstracters should use the rules and codes in this manual only for cases diagnosed January 1, 2015 and later unless instructed otherwise. Chapter 3, Section C. lists the types of cases to be reported on an abstract.

WHEN TO ABSTRACT A CANCER CASE

1. Cancer case information should be abstracted after complete work-up, cancer staging, and planned first course of treatment have been initiated. The first course of treatment is generally initiated within four months after the cancer is initially diagnosed. With the exception of early deaths, cases should not be abstracted less than four months after diagnosis.
2. Cases are due at the State Cancer Registry no later than six months following the date the patient comes under the care of the reporting facility.
3. Follow-up items are required and should be completed at the time the rest of the case is abstracted. Subsequent, annual follow-up information is optional, but may be reported if desired. See Chapter 6 for details on how to submit annual follow-up information at a later date.
4. There is no time limit for making revisions that give better information about the original diagnosis or stage. Data should be coded using the most accurate information available for an up-to-date and factual database. Over time, information that was missing when the case was first abstracted may be added to the patient's medical record. Such additions may contain new information. The latest or most complete information available should be used. Thus, it is acceptable to change the primary site, histology, and extent of disease (staging data) as information becomes more complete.

Note: This does not mean that if the patient's disease progresses, you should change the original stage to a higher stage. Staging should reflect only information available through completion of surgery(ies) in the first course of treatment or within four months of diagnosis in the absence of disease progression, whichever is longer. However, if the original stage is later found to be incorrect, it would be appropriate to change the stage to the correct code.

GENERAL ABSTRACTING INSTRUCTIONS AND DEFINITIONS

1. **Each primary cancer should be abstracted only once by a facility. However, if a patient is diagnosed with more than one primary cancer, whether simultaneously or at different times, a separate abstract must be completed for each primary cancer.**
2. Enter all information accurately. Entries on the paper abstract should be printed legibly.
3. The following terms are used throughout this chapter to indicate type, justification, and length of data fields:

Numeric:	The field will accept numbers only.
Alphabetic:	The field will accept letters only.
Alphanumeric:	The field will accept either letters or numbers, but no special characters.
Text:	The field will accept any letter, number, symbol, or space.
Left-Justified:	Data are to be entered starting at the first space toward the left. Leave unused spaces blank unless otherwise instructed.
Right-Justified:	Data are to be entered so that the last character falls in the last space on the right in the field. Leave unused spaces blank or zero fill, as directed.
Length:	Length refers to the number of characters in each data field.

4. The following abbreviations are used throughout Chapter 5:

ACoS	American College of Surgeons
AJCC	American Joint Committee on Cancer
CDC	Centers for Disease Control and Prevention
CoC	Commission on Cancer
CS	Collaborative Stage
<i>FORDS</i>	<i>Facility Oncology Registry Data Standards</i> (from Vol. II, Standards of the Commission on Cancer, ACoS)
<i>ICD-O-2</i>	<i>International Classification of Diseases for Oncology</i> , Second Edition, 1990
<i>ICD-O-3</i>	<i>International Classification of Diseases for Oncology</i> , Third Edition, 2000
JCAHO	Joint Commission on Accreditation of Healthcare Organizations
NAACCR	North American Association of Central Cancer Registries
NPCR	National Program of Cancer Registries
NPI	National Provider Identifier
RMCDs	Rocky Mountain Cancer Data Systems
SEER	Surveillance, Epidemiology, and End Results (National Cancer Institute program)

STATE DATA SET
Indiana State Cancer Registry Required Status Table for Cases Diagnosed in 2015

Required Status Key

- R Data elements required by National Program of Cancer Registries (NPCR) and/or the Indiana State Cancer Registry (ISCR).
R* Data elements required if available.
RS Data elements required for specific sites only.
RS* Data elements required, if available, for specific sites only.
R^ Text requirements that may be met with one or several text block fields.
RH Required historically.
D Required data elements derived from other elements by computer algorithm.
O Optional data elements.

ITEM	(Date Implemented)	NAACCR ITEM #	STATUS
Suspense case			O
Where, if diagnosed elsewhere (text)			R^
Description of size (text)			R^
Other primary tumors (text)			R^
Record type (computer-generated)		10	R
Central tumor registry number - for State use only		20	R
Registry ID		40	R
NAACCR record version		50	R
City/town at diagnosis		70	R
State at diagnosis		80	R
County at diagnosis		90	R
Postal code at diagnosis		100	R
Census tract 2000 - for State use only		130	R
Census tract 2010 - for State use only		135	R*
Census Tr Poverty Indictor - for State use only	(01/01/2014)	145	R
Race 1-5		160-164	R
Spanish/Hispanic origin		190	R
NIHIA derived Hispanic origin - for State use only		191	D
IHS Link - for State use only		192	R*
Race—NAPPIIA (derived API) - for State use only		193	R
Computed Ethnicity - for State use only		200	R
Computed Ethnicity Source - for State use only		210	R
Sex		220	R
Age at diagnosis		230	R
Date of birth		240	R
Date of birth flag	(01/01/2010)	241	R
Birthplace		250	RH*
Birthplace – State	(01/01/2013)	252	R*
Birthplace – Country	(01/01/2013)	254	R*
Census occupation code 1970-2000 - for State use only		270	R*
Census industry code 2010 - for State use only	(01/01/2013)	272	R*

ITEM	(Date Implemented)	NAACCR ITEM #	STATUS
Census industry code 1970-2000 - for State use only		280	R*
Census occupation code 2010 - for State use only	(01/01/2013)	282	R*
Occupation source - for State use only		290	R*
Industry source - for State use only		300	R*
Usual occupation (text)		310	R*
Usual industry (text)		320	R*
Occupation/industry coding system		330	R*
Census tract certainty 2000 - for State use only		365	R
GIS coordinate quality - for State use only		366	R*
Census tract certainty 2010 - for State use only		367	R*
Sequence number--central - for State use only		380	R
Date of initial diagnosis		390	R
Date of diagnosis flag	(01/01/2010)	391	R
Primary site		400	R
Laterality		410	R
Histologic type (1992-2000) ICD-O-2		420	RH
Behavior code (1992-2000) ICD-O-2		430	RH
Grade		440	R
Grade path value	(01/01/2011)	441	RH
Grade path system	(01/01/2011)	449	RH
Site coding system – current		450	R
Morphology coding system – current		470	R
Diagnostic confirmation		490	R
Type of reporting source		500	R
Casefinding source	(01/01/2012)	501	R*
Histologic type ICD-O-3		522	R
Behavior code ICD-O-3		523	R
Facility ID number		540	R
NPI-Reporting Facility		545	R*
Accession number- -Hospital (not collected by NPCR)		550	R
Sequence number- -Hospital (not collected by NPCR)		560	R
Abstracted by (not collected by NPCR)		570	R
Date of first contact for this primary		580	R
Date of first contact flag	(01/01/2010)	581	R
Class of case		610	R
Primary payer at diagnosis		630	R*
SEER Summary Stage 2000 (Cases diagnosed 2001-2003, 01/01/2015 and later)		759	R
SEER Summary Stage 1977 (Cases diagnosed through 12/31/2000)		760	RH
Tumor size (Cases diagnosed through 12/31/2003)		780	RH
Regional nodes positive		820	R
Regional nodes examined		830	R

ITEM	(Date Implemented)	NAACCR ITEM #	STATUS
Pathologic T	(01/01/2014)	880	R*
Pathologic N	(01/01/2014)	890	R*
Pathologic M	(01/01/2014)	900	R*
Pathologic stage group	(01/01/2014)	910	R*
Pathologic stage (prefix/suffix) descriptor	(01/01/2014)	920	R*
Stage by (pathologic stage)		930	O
Clinical T	(01/01/2014)	940	R*
Clinical N	(01/01/2014)	950	R*
Clinical M	(01/01/2014)	960	R*
Clinical stage group	(01/01/2014)	970	R*
Clinical stage (prefix/suffix) descriptor	(01/01/2014)	980	R*
Stage by (clinical stage)		990	O
TNM edition number	(01/01/2014)	1060	R*
Lymph-vascular invasion	(01/01/2012)	1182	RS
Date of surgical procedure of primary site (CoC item: Date of first surgical procedure)		1200	R
Date of surgical procedure flag	(01/01/2010)	1201	R
Date radiation started		1210	R
Date radiation started flag	(01/01/2010)	1211	R
Date chemotherapy started		1220	R
Date chemotherapy flag	(01/01/2010)	1221	R
Date hormone therapy started		1230	R
Date hormone therapy flag	(01/01/2010)	1231	R
Date immunotherapy (BRM) started		1240	R
Date immunotherapy (BRM) flag	(01/01/2010)	1241	R
Date other treatment started		1250	R
Date other treatment flag	(01/01/2010)	1251	R
Date of first course of treatment		1270	R
Date of first course of treatment flag	(01/01/2010)	1271	R
Date of surgical dx/staging procedure (not NPCR-required)		1280	R
Date of dx/staging procedure flag (not NPCR-required)	(01/01/2010)	1281	R
Treatment status	(01/01/2010)	1285	R
Surgical procedure of primary site		1290	R
Scope of regional lymph node surgery		1292	R
Surgical procedure/other site		1294	R
Reason for no surgery of primary site		1340	R
Surgical diagnostic & staging procedure (not NPCR-required)		1350	R
Radiation		1360	R
Radiation/surgery sequence		1380	R
Chemotherapy		1390	R
Hormone therapy		1400	R
Immunotherapy (BRM)		1410	R

ITEM	(Date Implemented)	NAACCR ITEM #	STATUS
Other treatment		1420	R
Reason for no radiation	(01/01/2011)	1430	R
RX coding system current		1460	R
First course calculation method		1500	R
Regional radiation treatment modality		1570	R
RX summ- -systemic/surgery sequence		1639	R
Date of last contact or death		1750	R
Date of last contact flag	(01/01/2010)	1751	R
Vital status		1760	R
Cancer status (not NPCR-required)		1770	R
Follow-up source		1790	R*
Follow-up source central - for State use only		1791	R
Cause of death (Updated by Death Clearance procedures)		1910	R
ICD revision number (for cause of death)		1920	R
Place of death (Updated by Death Clearance procedures)		1940	RH
Place of death – State (Updated by Death Clearance procedures)	(01/01/2013)	1942	R
Place of death – Country (Updated by Death Clearance procedures)	(01/01/2013)	1944	R*
Over-ride Site/TNM-StgGrp	(01/01/2015)	1989	R
Over-ride age/site/morph		1990	R
Over-ride SeqNo/DxConf		2000	R
Over-ride Site/Lat/SeqNo		2010	R
Over-ride surg/dxconf		2020	R
Over-ride – site/type		2030	R
Over-ride histology		2040	R
Over-ride Report Source		2050	R
Over-ride Ill-define Site		2060	R
Over-ride leuk/lymphoma		2070	R
Over-ride site/behavior		2071	R
Over-ride site/lat/morph		2074	R
Date case report exported		2110	R
Date case report received (stamp date) - for State use only		2111	R
Date case report loaded - for State use only		2112	R
Date tumor record available - for State use only		2113	R
ICD-O-3 conversion flag		2116	R
Last name		2230	R
First name		2240	R
Middle name		2250	R
Alias		2280	R
Medical record number		2300	R
Social Security number		2320	R
Patient address (number and street) at diagnosis		2330	R
Patient address at diagnosis – supplemental		2335	R

ITEM	(Date Implemented)	NAACCR ITEM #	STATUS
Latitude - for State use only		2352	R*
Longitude - for State use only		2354	R*
DC state file number - for State use only		2380	R
Maiden name (if applicable and available)		2390	R
NPI-Institution referred from (not NPCR required)		2415	R
NPI-Institution referred to (not NPCR required)		2425	R
History and physical (text)		2520	R^
Dx procedures x-ray/scan (text)		2530	R^
Diagnostic scope procedures (text)		2540	R^
Dx procedures lab tests (text)		2550	R^
Surgical staging procedures (text)		2560	R^
Dx procedure pathology (text)		2570	R^
Primary site title (text)		2580	R^
Histology title (text)		2590	R^
Substantiate stage (text)		2600	R^
Surgical procedures (text)		2610	R^
Radiation beam (text)		2620	R^
Radiation other (text)		2630	R^
Chemotherapy (text)		2640	R^
Hormone (text)		2650	R^
Immunotherapy/BRM (text)		2660	R^
Other therapy (text)		2670	R^
Remarks		2680	O
CS tumor size		2800	R
CS extension		2810	R
CS tumor size/ext eval	(01/01/2008)	2820	R
CS lymph nodes		2830	R
CS reg nodes eval	(01/01/2011)	2840	R*
CS mets at dx		2850	R
CS mets at diagnosis - bone (not NPCR-required)	(01/01/2010)	2851	R
CS mets at diagnosis - brain (not NPCR-required)	(01/01/2010)	2852	R
CS mets at diagnosis - liver (not NPCR-required)	(01/01/2010)	2853	R
CS mets at diagnosis - lung (not NPCR-required)	(01/01/2010)	2854	R
CS mets eval	(01/01/2011)	2860	R*
CS site-specific factor 7	(01/01/2010)	2861	RS*
CS site-specific factor 8	(01/01/2010)	2862	RS
CS site-specific factor 9	(01/01/2010)	2863	RS
CS site-specific factor 10	(01/01/2010)	2864	RS
CS site-specific factor 11	(01/01/2010)	2865	RS
CS site-specific factor 12	(01/01/2010)	2866	RS
CS site-specific factor 13	(01/01/2010)	2867	RS
CS site-specific factor 14	(01/01/2010)	2868	RS

ITEM	(Date Implemented)	NAACCR ITEM #	STATUS
CS site-specific factor 15	(01/01/2011)	2869	RS
CS site-specific factor 16	(01/01/2011)	2870	RS
CS site-specific factor 17	(01/01/2011)	2871	RS*
CS site-specific factor 18	(01/01/2011)	2872	O
CS site-specific factor 19	(01/01/2011)	2873	O
CS site-specific factor 20	(01/01/2011)	2874	O
CS site-specific factor 21	(01/01/2011)	2875	O
CS site-specific factor 22	(01/01/2011)	2876	O
CS site-specific factor 23	(01/01/2011)	2877	O
CS site-specific factor 24	(01/01/2011)	2878	O
CS site-specific factor 25	(01/01/2010)	2879	RS
CS site-specific factor 1		2880	RS
CS site-specific factor 2		2890	RS
CS site-specific factor 3		2900	RS
CS site-specific factor 4	(01/01/2011)	2910	RS*
CS site-specific factor 5	(01/01/2011)	2920	RS*
CS site-specific factor 6	(01/01/2011)	2930	RS*
CS version input original (CS version first) (autocoded)		2935	R
CS version derived (CS version latest) (autocoded)		2936	R
CS version input current	(01/01/2010)	2937	R
Derived AJCC-6 T (autocoded)		2940	O
Derived AJCC-6 T descriptor (autocoded)		2950	O
Derived AJCC-6 N (autocoded)		2960	O
Derived AJCC-6 N descriptor (autocoded)		2970	O
Derived AJCC-6 M (autocoded)		2980	O
Derived AJCC-6 M descriptor (autocoded)		2990	O
Derived AJCC-6 stage group (autocoded)		3000	O
Derived SS1977 (autocoded)		3010	D
Derived SS2000 (autocoded)		3020	D
Date of most definitive surgical resection of the primary site	(01/01/2015)	3170	R
Date of most definitive surgery flag	(01/01/2015)	3171	R
Date systemic therapy started		3230	O
Date systemic therapy flag	(01/01/2010)	3231	O
Hematologic transplant and endocrine procedures		3250	R
Derived AJCC-7 T (autocoded)	(01/01/2010)	3400	D
Derived AJCC-7 T descriptor (autocoded)	(01/01/2010)	3402	D
Derived AJCC-7 N (autocoded)	(01/01/2010)	3410	D
Derived AJCC-7 N descriptor (autocoded)	(01/01/2010)	3412	D
Derived AJCC-7 M (autocoded) (autocoded)	(01/01/2010)	3420	D
Derived AJCC-7 M descriptor (autocoded)	(01/01/2010)	3422	D
Derived AJCC-7 stage group (autocoded)	(01/01/2010)	3430	D
NPCR Specific Field - for State use only	(01/01/2014)	3720	R

ITEM	(Date Implemented)	NAACCR ITEM #	STATUS
Over-ride CS 1	(01/01/2012)	3750	R
Over-ride CS 2	(01/01/2012)	3751	R
Over-ride CS 3	(01/01/2012)	3752	R
Over-ride CS 4	(01/01/2012)	3753	R
Over-ride CS 5	(01/01/2012)	3754	R
Over-ride CS 6	(01/01/2012)	3755	R
Over-ride CS 7	(01/01/2012)	3756	R
Over-ride CS 8	(01/01/2012)	3757	R
Over-ride CS 9	(01/01/2012)	3758	R
Over-ride CS 10	(01/01/2012)	3759	R
Over-ride CS 11	(01/01/2012)	3760	R
Over-ride CS 12	(01/01/2012)	3761	R
Over-ride CS 13	(01/01/2012)	3762	R
Over-ride CS 14	(01/01/2012)	3763	R
Over-ride CS 15	(01/01/2012)	3764	R
Over-ride CS 16	(01/01/2012)	3765	R
Over-ride CS 17	(01/01/2012)	3766	R
Over-ride CS 18	(01/01/2012)	3767	R
Over-ride CS 19	(01/01/2012)	3768	R
Over-ride CS 20	(01/01/2012)	3769	R

REPORTING FACILITY ID NUMBER

Item Length: 3
Data Type: Numeric
ACoS: Required
State Registry: Required

Description

This is a required 3-character field for recording a unique 3-digit identification number assigned to each reporting facility in Indiana.

The Facility ID number identifies the facility reporting the case. It also allows the State Registry to collect information from multiple facilities that have seen the same patient for the same tumor. In the State Cancer Registry database, up to ten different facility ID numbers can be recorded for each tumor. Each of the ten facilities can be listed with its admission date, accession year and number, medical record number, and class of case for that tumor.

Instruction

Referring to Appendix D, enter your 3-digit facility ID number in this field.

NPI-REPORTING FACILITY

Item Length: 10
Data Type: Numeric
ACoS: Required
State Registry: Required

Data item added for cases diagnosed 01/01/2007 or later, when available.

Description

This is a required 10-character field that identifies the facility submitting the data in the record. NPI (National Provider Identifier) is a unique identification number for health care providers implemented by the Centers for Medicare & Medicaid Services as part of the Health Insurance Portability and Accountability Act of 1996 (HIPAA).

Rationale

Each facility's NPI is unique. The number is essential to National Cancer Database (NCDB) for monitoring data submissions, ensuring the accuracy of data, and for identifying areas for special studies.

Codes

NPI numbers for Indiana facilities are provided in Appendix D of this manual.

Instructions

- a. *NPI-Reporting Facility* is automatically coded by the software provider.
- b. NPI should be recorded as available for cases diagnosed during 2007, and is required to be recorded for all cases diagnosed January 1, 2008.
- c. NPI may be blank for cases diagnosed on or before December 31, 2006.

ABSTRACTED BY

Item Length: 3
Data Type: Alphanumeric
Left Justified, Blank Fill
ACoS: Required
State Registry: Required

Description

This is a required 3-character field to record the initials or assigned code of the individual who abstracted the case.

Rationale

This item is most useful for multi-staffed registries and can be used for quality control and management.

Instructions

- a. Record the initials or assigned code of the individual who abstracted this case. If the initials are less than three characters, left justify and blank fill.
- b. Do not code the data entry person unless that person is also the abstractor.

Instructions for RMCDS Facilities

- a. The initials will automatically be entered in each abstract based on the identification used to log in.
- b. The initials automatically entered may be manually changed if a second abstracter completes a case in a session logged in by someone else.

TYPE OF REPORTING SOURCE

Item Length: 1
Data Type: Numeric
ACoS: N/A
State Registry: Required

Data item revised for cases diagnosed 01/01/2006 and later.

Description

This is a required 1-character field for coding the source documents used to abstract the majority of information for the tumor being reported. The item is intended to indicate the completeness of information available to the abstractor.

Rationale

The code in this field can be used to explain why information for a tumor may be incomplete. For example, death certificate only cases have unknown values for many data items, so one may want to exclude them from some analyses. The field also is used to monitor the success of non-hospital case reporting and follow-back mechanisms. All population-based registries should have some death certificate-only cases where no hospital admission was involved, but too high a percentage can imply both shortcomings in casefinding and that follow-back to uncover missed hospital reports was not complete.

Codes (effective for cases diagnosed 01/01/2006 and later)

- 1 Hospital inpatient; managed health plans with comprehensive, unified medical records
- 2 Radiation Treatment Centers or Medical Oncology Centers (hospital-affiliated or independent)
- 3 Laboratory only (hospital-affiliated or independent)
- 4 Physician's office/private medical practitioner (LMD)
- 5 Nursing/convalescent home/hospice
- 6 Autopsy only (diagnosed at autopsy)
- 7 Death certificate only
- 8 Other hospital outpatient units/surgery centers

Notes:

- a. Code in the following priority order: 1, 2, 8, 4, 3, 5, 6, 7. This is a change to reflect the addition of codes 2 and 8 (for cases diagnosed 01/01/2006 and later) and to prioritize laboratory reports over nursing home reports. Facilities previously defined under code 1 have been split between codes 1, 2, and 8.
- b. Use the code that reflects the source documents used to abstract the majority of information for the tumor being reported. This may not be the source of original case finding. For example, if a case is identified through a pathology laboratory report review and all source documents used to abstract the case are from the physician's office, record code 4.

Definitions

- a. **Code 1** includes hospitals as well as specified managed health plans. Reports from health plans (e.g., Kaiser, Veterans Administration, military facilities), in which all diagnostic and treatment information is maintained centrally and available to the abstractor, are expected to be at least as complete as reports for hospital inpatients. Therefore, these sources are grouped with inpatients and given the code with the highest priority.
- b. **Code 2** includes (radiation or medical) cancer treatment facilities, whether they are affiliated with a hospital or not. These sources usually have complete information on the cancer diagnosis, staging, and treatment.
- c. **Code 3** is generally for use by independent pathology laboratories. If a hospital's pathology department has a report on a non-hospital case (with no inpatient or outpatient record) and no other information is available, code 3 should be used. For example, a hospital that finds a reportable case by reviewing pathology reports should report the case as Reporting Source 3 if no other records or

information were available. This might happen if an outside physician contracted to use the hospital's pathology laboratory facilities.

- d. **Code 4** includes physician offices as well as independent, free-standing clinics with no hospital affiliation and that are not defined under Code 2. Examples of these may include surgery centers with no hospital affiliation and HMOs.
- e. **Codes 6 and 7** are used only when investigation can find no clinical diagnosis of any kind while the patient was alive.
- f. **Code 8** sources would include, but would not be limited to, hospital outpatient surgery and nuclear medicine services. A physician's office that calls itself a surgery center should be coded as a physician's office. Surgery centers are equipped and staffed to perform surgical procedures under general anesthesia. If a physician's office calls itself a surgery center, but cannot perform surgical procedures under general anesthesia, code as a physician office.

SUSPENSE CASE

Item Length: 1
Data Type: Numeric
ACoS: N/A
State Registry: Optional

Description

This is an optional 1-character field in the RMCDS abstract screen to record a code that identifies an incomplete record (suspense, premalignant). Records identified as incomplete will be bypassed when normal edits are applied. A suspense system can be created using this field by printing a suspense list of the incomplete cases.

The paper Hospital Abstract does not include this field, since the suspense system for paper abstractors is created by a separate filing of the abstracts or by using index cards.

Facilities using other vendors' registry programs should follow the applicable vendor's instructions for suspense cases.

Codes

- 1 Partial record (suspense, premalignant, incomplete)
- 0 Complete record

Instructions

- a. Record a 1 in the suspense field for cases that have not been completely abstracted.
- b. When the record is completely abstracted, change the code and apply edits to the record.
- c. Refer to Chapter 2, Section D for requirements related to suspense systems.

PATIENT LAST NAME

Item Length: 40
Data Type: Alphabetic
Left Justified, Blank Fill
ACoS: Required
State Registry: Required

Description

This is a required 40-character field for the patient's last name. Left justify and leave unused space(s) at the right blank.

Instructions

- a. In a hyphenated last name, record the hyphen (-) between the two surnames (last names). This might happen when a female marries and keeps her maiden name as part of her legal married name.

Example: SMITH-WALBRIDGE

- b. Do not enter periods, apostrophes, blank spaces, punctuation, or other special characters (e.g., Jr, III) within the name.

Example 1: OHARA (NOT O'HARA)

Example 2: MCDONALD (NOT MC DONALD)

Example 3: STPIERRE (NOT ST. PIERRE OR SAINT PIERRE)

Note: The *FORDS* allows blanks, spaces, and apostrophes in the last name field. However, changing the name format at this point would compromise the linking or matching of new cases with cases previously entered in the registry. Therefore, it is advisable to continue following the old formatting rules.

- c. Update the field if a patient marries and takes the spouse's last name. If a patient changes his/her legal name, enter the patient's most current legal name and put previous last name in the field for maiden name. If a patient has more than one tumor, previous records with different last names (AKA's) should be updated to show the most recent name change. The old name should be recorded in *Maiden Name*.

Example: Jane White, who had a primary in 2009, marries in 2010 and becomes Jane Black. In 2015 she has a second primary. Change the last name in the 2009 abstract from White to Black and record White in *Maiden Name*. Record the same names for the 2015 primary: Black (White in *Maiden Name*).

- d. Do not leave the field blank. If the patient's last name is unknown, record UNKNOWN.

PATIENT FIRST NAME

Item Length: 40
Data Type: Alphabetic
Left Justified, Blank Fill
ACoS: Required
State Registry: Required

Description

This is a required 40-character field for the patient's first name. Left justify and leave unused space(s) at the right blank.

Instructions

- a. Record the patient's full first name.
- b. If the first name is not known, leave the field blank.

**PATIENT MIDDLE NAME
(MIDDLE INITIAL)**

Item Length: 40
Data Type: Alphabetic
Left Justified, Blank Fill
ACoS: Required
State Registry: Required

Description

This is a required 40-character field for the patient's middle name or middle initial. Left justify and leave unused space(s) at the right blank.

Instructions

- a. Record the patient's middle name or middle initial. If recording only a middle initial, do not enter a period after the letter.
- b. If the middle name is not known, leave the field blank.

PATIENT MAIDEN NAME

Item Length: 40
Data Type: Alphabetic
Left Justified, Blank Fill
ACoS: N/A
State Registry: *Required

*Required if available for cases diagnosed 01/01/2006 and later.

Description

This is an optional 40-character field for the maiden name of female patients who are married or who have been married. Left justify and leave unused space(s) at the right blank.

Instructions

- a. If a female is, or has been, married, record her maiden name.
- b. If the maiden name is not known or the patient does not have a maiden name, leave the field blank.
- c. Do not enter periods, apostrophes, blank spaces, punctuation, or other special characters (e.g., Jr, III) within the name.

Example 1: OHARA (NOT O'HARA)

Example 2: MCDONALD (NOT MC DONALD)

Example 3: STPIERRE (NOT ST. PIERRE OR SAINT PIERRE)

PATIENT ALIAS

Item Length: 40
Data Type: Alphabetic
Left Justified, Blank Fill
ACoS: N/A
State Registry: *Required

*Required if available for cases diagnosed 01/01/2006 and later.

Description

This is an optional 40-character field to record the alias, if the patient uses a different name or nickname. Left justify and leave unused space(s) at the right blank.

Instructions

- a. First name only alias
If the patient uses an alias for a first name only, record the actual last name and the first name alias. In the RMCDS abstract screen, leave a blank space, without punctuation, between the last and first names.

Example: Ralph Williams uses the name Bud Williams. Record Williams Bud.
- b. Last name only alias
If the patient uses only a last name alias, record the last name alias and the actual first name. In the RMCDS abstract screen, leave a blank space, without punctuation, between the last and first names.

Example: Janice Smith uses the name Janice Brown. Record Brown Janice.
- c. Alias first and last name
If the patient uses an alias for the first and last name, record the last name alias and the first name alias. In the RMCDS abstract screen, leave a blank space, without punctuation, between the last and first names.

Example: Samuel Clemens uses the name Mark Twain. Record Twain Mark.
- d. If the patient does not use an alias, leave the field blank.

GENERAL GUIDELINES FOR RECORDING PATIENT ADDRESS AT DIAGNOSIS

Rationale

The address is a part of the patient's demographic data and has multiple uses. It will provide a referral pattern report and allow analysis of cancer clusters or environmental studies. Address at diagnosis may be corrected, but never changed or updated. Changing this field would destroy its usefulness.

Rules and Definitions: Use the following guidelines for all patient address data items.

- a. Record the patient's usual residence when the cancer was diagnosed. Normally a residence is the home named by the patient. Do not use a temporary address, such as a winter or vacation home. Legal status and citizenship are not factors in residency decisions. Rules of residency are identical to or comparable with rules used by the Census Bureau whenever possible. The registry can resolve residency questions by using the Census Bureau's definition: "The place where he or she lives and sleeps most of the time or the place the person considers to be his or her usual home." Vital statistics rules may differ from census rules. Do not record residence from the death certificate. Review each case carefully and apply the rules.
- b. Do not use current address. Record the address for the patient's home when he/she was diagnosed with cancer for both analytic and nonanalytic cases. If all or any part of the address is unknown, follow the instructions for unknowns under the applicable item heading in the following pages.
- c. Rules for persons without apparent residences:
 - (1) Persons with More than One Residence (summer and winter homes): Use the address the patient specifies if a usual residence is not apparent.
 - (2) Persons with No Usual Residence (transients, homeless): Use the address of the place they were staying when the cancer was diagnosed. This could be a shelter or the diagnosing facility.
 - (3) Persons Away at School: College students are residents of the school area. Boarding school children below college level are residents of their parents' home.
 - (4) Persons in Institutions: The Census Bureau states, "Persons under formally authorized, supervised care or custody" are residents of the institution. This includes:
 - Incarcerated persons
 - Persons in nursing, convalescent, and rest homes
 - Persons in homes, schools, hospitals, or wards for the physically disabled, mentally retarded, or mentally ill
 - Long-term residents of other hospitals, such as Veterans Administration (VA) or military hospitals
 - (5) Persons in the Armed Forces and on Maritime Ships: Members of the armed forces are residents of the installation area. Use the stated address for military personnel and their family. Military personnel may use the installation address or the surrounding community's address.

The Census Bureau has detailed residency rules for Naval personnel, Coast Guard, and maritime ships. Refer to Census Bureau publications for the detailed rules.

Patient Address – Current

The State Registry does not collect the patient's current address, although there are separate fields in the RMCDs program for recording it. For further coding instructions on current address, refer to the *FORDS*.

PATIENT ADDRESS (NUMBER AND STREET) AT DIAGNOSIS

Item Length: 60
 Data Type: Alphanumeric
 Left Justified, Blank Fill
 ACoS: Required
 State Registry: Required

Description

This is a required 60-character field for the patient's house number and street address at the time of diagnosis. Enter the house number and street name or the rural mailing address. This may or may not be the patient's current address. If the patient has multiple tumors, the address may be different for each primary. See "General Guidelines for Recording Patient Address at Diagnosis" for detailed residency rules.

Rationale

The address is a part of the patient's demographic data and has multiple uses. It indicates referral patterns and allows for analysis of cancer clusters or environmental studies.

Instructions

- a. Record the number and street address of the patient's usual residence when the cancer was diagnosed. Do not record a post office box number unless it is the only address available.
- b. Avoid using punctuation, except when necessary to convey the meaning. Limit punctuation to periods when the period carries meaning (e.g., 39.2 RD), slashes for fractional addresses (e.g., 101 1/2 MAIN ST), and hyphens when the hyphen carries meaning (e.g., 289-01 MONTGOMERY AVE). Avoid using the pound sign (#) to designate address units whenever possible. If a pound sign is used, there must be a space between the pound sign and the secondary number.
- c. Do not update this data item if the patient's address changes.
- d. Use standard abbreviations recognized by the U.S. Postal Service (USPS). The USPS Postal Addressing Standards, Pub 28, November 2000 can be found on the Internet at <http://pe.usps.com/text/pub28/welcome.htm>. Standard abbreviations include, but are not limited to:

Apartment	APT	Rural Route	RR
Avenue	AVE	State Road	SR
Boulevard	BLVD	Street	ST
Building	BLDG	Suite	STE
Circle	CIR	Terrace	TER
Court	CT	Unit	UNIT
Department	DEPT		
Drive	DR	North	N
Floor	FL	Northeast	NE
Lane	LN	Northwest	NW
Parkway	PKY	South	S
Place	PL	Southeast	SE
Post Office	PO	Southwest	SW
Road	RD	East	E
Room	RM	West	W

Example 1: 123 MAIN ST APT 5

Example 2: RR 2 BOX 421

Example 3: 103 FIRST AVE SW APT 102

- e. If the number and street address at diagnosis is not known, enter "UNKNOWN" in this field.

**PATIENT ADDRESS (NUMBER AND STREET)
AT DIAGNOSIS – SUPPLEMENTAL**

Item Length: 60
Data Type: Alphanumeric
Left Justified, Blank Fill
ACoS: Required
State Registry: *Required

*Required if available for cases diagnosed 01/01/2006 and later.

Description

This item provides the ability to store additional address information, such as the name of a place or facility (e.g., a nursing home or name of an apartment complex), at the time of diagnosis.

Rationale

A registry may receive the name of a facility instead of a proper street address containing the street number, name, direction, and other elements necessary to locate an address on a street file for the purpose of geocoding.

Instructions for Coding

- a. Record the place or facility (e.g., a nursing home or name of an apartment complex) of the patient's usual residence when the tumor was diagnosed.
- b. Do not record apartment number, lot number, or other such information in this item. Record this information in the street address line.
- c. If the patient has multiple tumors, the address may be different for subsequent primaries.
- d. Do not update this data item if the patient's address changes.
- e. If this address space is not needed, leave the item blank.

CITY/TOWN AT DIAGNOSIS

Item Length: 50
Data Type: Alphabetic
Left Justified, Blank Fill
ACoS: Required
State Registry: Required

Description

This is a required 50-character field for the patient's usual city or town at the time of diagnosis. If the patient has multiple tumors, the address may be different for each primary. See "General Guidelines for Recording Patient Address at Diagnosis" for detailed residency rules.

Rationale

The address is a part of the patient's demographic data and has multiple uses. It indicates referral patterns and allows for analysis of cancer clusters or environmental studies.

Instructions

- a. Record the city or town of the patient's usual residence when the cancer was diagnosed.
- b. Do not use punctuation or special characters and abbreviate when necessary.
- c. Do not update this data item if the patient's city/town of residence changes.
- d. If the city is not known, enter "UNKNOWN."

STATE AT DIAGNOSIS

Item Length: 2
Data Type: Alphabetic
ACoS: Required
State Registry: Required

Item revised for cases diagnosed 01/01/2007 and later.

Description

This is a required 2-character field for the patient's usual state of residence at the time of diagnosis. See "General Guidelines for Recording Patient Address at Diagnosis" for detailed residency rules.

Rationale

The address is a part of the patient's demographic data and has multiple uses. It indicates referral patterns and allows for the analysis of cancer clusters or environmental studies.

Instructions

- a. Record the standard U.S. Postal Service 2-letter abbreviation for the state, territory, commonwealth, U.S. possession, or Canadian province/territory in which the patient resides at the time of diagnosis. The 2-letter codes appear on the following page.
- b. If the patient has multiple tumors, the state of residence may be different for each primary.
- c. Do not update this data item if the patient's state of residence changes.

Special Codes

CD Resident of Canada, NOS (province/territory unknown)

US Resident of United States, NOS (state/commonwealth/territory/possession unknown)

XX Resident of a country other than the U.S. (including its territories, commonwealths, or possessions) or Canada and the country is known. Code the country of residence in *County at Diagnosis*.

YY Resident of a country other than the U.S. (including its territories, commonwealths, or possessions) or Canada and the country is unknown.

ZZ Residence unknown

State Abbreviation Codes

STATE		STATE		STATE	
Alabama	AL	Massachusetts	MA	Tennessee	TN
Alaska	AK	Michigan	MI	Texas	TX
Arizona	AZ	Minnesota	MN	Utah	UT
Arkansas	AR	Mississippi	MS	Vermont	VT
California	CA	Missouri	MO	Virginia	VA
Colorado	CO	Montana	MT	Washington	WA
Connecticut	CT	Nebraska	NE	West Virginia	WV
Delaware	DE	Nevada	NV	Wisconsin	WI
District of Columbia	DC	New Hampshire	NH	Wyoming	WY
Florida	FL	New Jersey	NJ	OTHER	
Georgia	GA	New Mexico	NM	American Samoa	AS
Hawaii	HI	New York	NY	Guam	GU
Idaho	ID	North Carolina	NC	Puerto Rico	PR
Illinois	IL	North Dakota	ND	Virgin Islands	VI
Indiana	IN	Ohio	OH	Palau	PW
Iowa	IA	Oklahoma	OK	Micronesia	FM
Kansas	KS	Oregon	OR	Marshall Islands	MH
Kentucky	KY	Pennsylvania	PA	Outlying Islands	UM
Louisiana	LA	Rhode Island	RI	APO/FPO Armed Services America	AA
Maine	ME	South Carolina	SC	APO/FPO Armed Services Europe	AE
Maryland	MD	South Dakota	SD	APO/FPO Armed Services Pacific	AP

Abbreviation Codes for Canadian Provinces and Territories

PROVINCE		PROVINCE	
Alberta	AB	Nunavut	NU
British Columbia	BC	Ontario	ON
Manitoba	MB	Prince Edward Island	PE
New Brunswick	NB	Quebec	QC
Newfoundland and Labrador	NL	Saskatchewan	SK
Northwest Territories	NT	Yukon	YT
Nova Scotia	NS		

POSTAL CODE (ZIP CODE) AT DIAGNOSIS

Item Length: 9
Data Type: Numeric
Left Justified, Blank Fill
ACoS: Required
State Registry: Required

Description

This is a required 9-character field for the patient's postal (ZIP) code at the time of diagnosis. The 4-digit extension is optional. See "General Guidelines for Recording Patient Address at Diagnosis" for detailed residency rules.

Rationale

The address is a part of the patient's demographic data and has multiple uses. It indicates referral patterns and allows for the analysis of cancer clusters or environmental studies.

Instructions

- a. For U.S. residents record the U.S. Postal Service ZIP code for the patient's residence at the time of diagnosis.
- b. The ZIP code field in the RMCDS program will accept the "ZIP plus 4" extended ZIP code. Do not enter a dash before the 4-digit extension.

Recording the 4-digit extension is optional. If the 4-digit extension is not recorded, left justify the 5-digit code and leave the remaining spaces blank.

- c. For residents of Canada and Puerto Rico record the postal code, left justify, and leave the remaining spaces blank.
- d. If the patient has multiple malignancies, the postal code may be different for each primary.
- e. Do not update this data item if the patient's postal code changes.

Special Codes

88888 Permanent address in a country other than Canada, United States, or US possession and postal code is unknown.

99999 Permanent address in Canada, United States, or US possession and postal code is unknown.

COUNTY AT DIAGNOSIS

Item Length: 3
Data Type: Numeric
Right Justified, Blank Fill
ACoS: Required
State Registry: Required

Description

This is a required 3-character field to record the county of the patient's usual residence at the time of diagnosis. See "General Guidelines for Recording Patient Address at Diagnosis" for detailed residency rules.

Rationale

This data item may be used for epidemiological purposes. It may be used, for example, to measure the cancer incidence in a particular geographic area.

Codes

Use the codes issued by the Bureau of Standards in the Federal Information Processing Standards (FIPS). FIPS codes for Indiana counties are listed on the following page.

Instructions**a. Residents of Indiana**

For Indiana Residents, enter the 3-digit FIPS code for the patient's county of residence at the time of diagnosis from the list on the following page.

b. Residents of States Other than Indiana

- (1) If the patient is a resident of a state other than Indiana, and your facility does not collect identification codes for counties of that state, record the 998 code defined under "special codes."
- (2) If the patient is a resident of a state other than Indiana, and your facility collects identification codes for counties of that state, use the FIPS codes for that state. Appendix H lists the FIPS codes for counties in the states adjoining Indiana. If you need codes for states other than those provided, contact the State Registry.

c. Residents of Countries other than the United States

If the patient is a resident of a country other than the United States, record the code for the country in this field. An XX code would have been recorded in *State at Diagnosis*.

For country codes, see one of the following:

- *The SEER Program Coding and Staging Manual*, Appendix B (<http://seer.cancer.gov/>);
- *NAACCR Standards for Cancer Registries Volume II: Data Standards and Data Dictionary*, Appendix B (<http://www.naacr.org/>); or
- *FORDS* Appendix E (<http://www.facs.org/cancer/coc/fordsmanual.html>).

d. Do not update this data item if the patient's county of residence changes.**Special Codes**

998 The patient resides outside of the state of the reporting facility.

999 Unknown county/country. The patient is a resident of Indiana but the address is unknown.

INDIANA COUNTY CODES

FIPS	County	FIPS	County	FIPS	County
001	Adams	071	Jackson	141	St. Joseph
003	Allen	073	Jasper	143	Scott
005	Bartholomew	075	Jay	145	Shelby
007	Benton	077	Jefferson	147	Spencer
009	Blackford	079	Jennings	149	Starke
011	Boone	081	Johnson	151	Steuben
013	Brown	083	Knox	153	Sullivan
015	Carroll	085	Kosciusko	155	Switzerland
017	Cass	087	LaGrange	157	Tippecanoe
019	Clark	089	Lake	159	Tipton
021	Clay	091	LaPorte	161	Union
023	Clinton	093	Lawrence	163	Vanderburgh
025	Crawford	095	Madison	165	Vermillion
027	Daviess	097	Marion	167	Vigo
029	Dearborn	099	Marshall	169	Wabash
031	Decatur	101	Martin	171	Warren
033	DeKalb	103	Miami	173	Warrick
035	Delaware	105	Monroe	175	Washington
037	Dubois	107	Montgomery	177	Wayne
039	Elkhart	109	Morgan	179	Wells
041	Fayette	111	Newton	181	White
043	Floyd	113	Noble	183	Whitley
045	Fountain	115	Ohio		
047	Franklin	117	Orange		
049	Fulton	119	Owen		
051	Gibson	121	Parke		
053	Grant	123	Perry		
055	Greene	125	Pike		
057	Hamilton	127	Porter		
059	Hancock	129	Posey		
061	Harrison	131	Pulaski		
063	Hendricks	133	Putnam		
065	Henry	135	Randolph		
067	Howard	137	Ripley		
069	Huntington	139	Rush		

CENSUS TRACT 2000

Item Length: 6
 Data Type: Numeric
 Zero Fill
 ACoS: N/A
 State Registry: Required*

*Completed by the State Registry

Description

This is a required 6-character field in the RMCDS abstract screen for recording a census tract code that identifies the patient's residence at time of diagnosis. The code pinpoints residence at diagnosis within a geographic area smaller than the county of residence. Census tract is collected to meet the requirements of the Federal cancer registries grant.

Rationale

Census tract codes allow central registries to calculate incidence rates for geographical areas having population estimates. This field allows a central registry to add Year 2000 Census tract to cases diagnosed in previous years.

Definition

Census tract codes originate from the Bureau of the Census and are constructed using the patient's address. The boundaries of census tracts are established cooperatively by local committees and the Census Bureau. The corresponding population of the census tract area can be obtained from the Census Bureau. Codes are available from state health departments or the Bureau of the Census.

Instructions

- a. The State Cancer Registry will code this item using computerized methods based on the patient's address at diagnosis. If your facility already collects census tract, please contact the State Registry to avoid unnecessary duplication of effort. The field is described here for general informational purposes.
- b. When coding census tract, the decimal point is assumed to be between the fourth and fifth positions of the field. Zeros are added to fill all six positions.

Example 1: Census tract 409.6 (0409.60) would be coded 040960.

Example 2: Census tract 516.21 (0516.21) would be coded 051621.

Special Codes

000000 Area is not census tracted

999999 Area is census tracted, but census tract is not available

blank Census Tract 2000 not coded

CENSUS TRACT CERTAINTY 2000

Item Length: 1
Data Type: Numeric
ACoS: N/A
State Registry: Required

*Completed by the State Registry

Description

This is a required 1-character field in the RMCDS abstract screen for recording the basis of assignment of census tract for an individual record. This item is not coded by the hospital. The information is usually provided by a geocoding vendor service, but may be manually assigned by central registry staff. The codes are hierarchical, with lower numbers having priority.

Rationale

This item is helpful in identifying cases tracted from incomplete information or P.O. Box.

Codes

- 1 Census tract based on complete and valid street address of residence
- 2 Census tract based on residence ZIP + 4
- 3 Census tract based on residence ZIP + 2
- 4 Census tract based on residence ZIP code only
- 5 Census tract based on ZIP code of P.O. Box
- 9 Unable to assign census tract or bloc numbering based on available information
- blank Not applicable (e.g., census tracting not attempted); Census Tract Certainty information for 2000 not coded

Instructions

The State Cancer Registry will code this item using computerized methods based on the patient's address at diagnosis. The field is described here for general informational purposes.

SOCIAL SECURITY NUMBER

Item Length: 9
Data Type: Numeric
ACoS: Required
State Registry: Required

Description

This is a required 9-character field to record the patient's Social Security Number (SSN).

Rationale

This item is extremely important in identifying, linking, and matching multiple records on the same patient and in differentiating patients with similar names at the State Cancer Registry. Every effort should be made to obtain the correct number for each patient.

Instructions

- a. Do not enter any dashes, other punctuation, or any alphabetical letters.
- b. Do not record Social Security numbers that end with B or D. These letters signify that the number is the spouse's and indicate that the patient is receiving benefits under the spouse's number. Code as 999999999.
- c. You can assume the Medicare number is the Social Security number if it is prefixed with "A" or "C." Do not enter the prefix "A" or "C" on the abstract as part of the Social Security number.

Special Codes

999999999 The patient does not have a Social Security number or it is not available or unknown. Do not leave the field blank.

DATE OF BIRTH

Item Length: 8
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This is a required 8-character field for recording the patient's birth date.

Rationale

This data item is useful for patient identification. It is also useful when analyzing tumors according to age cohort.

Codes

	<u>Month</u>	<u>Day</u>	<u>Year</u>
01	January	01	Use four-digit year (e.g., 1952) blank = Year unknown
02	February	02	
03	March	03	
04	April	...	
05	May	...	
06	June	25	
07	July	26	
08	August	...	
09	September	30	
10	October	31	
11	November	blank = Day unknown	
12	December		
blank	Month unknown		

Instructions

- Record the patient's date of birth as documented in the patient record. Use the full four-digit year for year. Determine whether your software vendor uses the traditional format for date entry (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDs program uses the traditional format.
- For in utero diagnosis and treatment, record the actual date of birth. The date of birth will follow one or both dates for those events.
- If only the patient age is available, calculate the year of birth from age and the year of diagnosis and leave day and month of birth spaces blank.

Example:

The patient is 60 years old when admitted to the hospital on June 15, 2001 and no birth date is given. Record __/__/1941 or 1941/__/__, depending on the date format your software uses. Leave the month and day spaces blank.

- If month is unknown, the day is coded unknown. If the year cannot be determined, code day and month as unknown.
- If the date of birth cannot be determined at all, leave the date of birth field blank and record the reason in *Date of Birth Flag*. See the *Date of Birth Flag* section for examples illustrating the relationships among these items.

DATE OF BIRTH FLAG

Item Length: 2
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This flag explains why there is no appropriate value in the corresponding date field, *Date of Birth* (NAACCR Item #240).

Rationale

As part of an initiative to standardize date fields, the date flag fields were introduced to accommodate non-date information that had previously been transmitted in date fields.

Codes

12 A valid date is applicable but not known (for example, birth date is unknown)
 Blank A valid date is coded in the *Date of Birth* item (NAACCR Item #240).

Instructions

- Leave this item blank if *Date of Birth* has a full or partial date recorded.
- Use code 12 if the *Date of Birth* cannot be determined at all.
- Code this data item (when appropriate) even if your software uses the traditional format for date entry.

Examples:

Description	Date (Leave unknown portions blank.)	Date of Birth Flag
Full date known	*12/07/1953 or 1953/12/07	Blank
Month & year known	*12/_ _/1953 or 1953/12/_ _	Blank
Year only known	*_ _/_ _/1953 or 1953/_ _/_ _	Blank
Unknown date	*_ _/_ _/_ _ _ _ or _ _ _ _/_ _/_ _	12

* For date entry, your software may use the traditional format (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format. The computer will store either in the interoperable format.

AGE AT DIAGNOSIS

Item Length: 3
Data Type: Numeric
Right Justified, Zero Fill
ACoS: Required
State Registry: Required

Description

This is a required 3-character field in the RMCDS abstract screen for recording patient age at the time of diagnosis. The patient's age at diagnosis is automatically calculated by the RMCDS program after the date of birth and date of diagnosis are recorded.

Definition

"Age at Diagnosis" is the patient's age at his or her last birthday before diagnosis.

Examples:

000 Less than one year old; diagnosed *in utero*
001 One year old, but less than two years old
002 Two years old
... Actual age in years
999 Unknown age

Instructions for Facilities Using RMCDS

- a. If the date of birth and date of diagnosis are recorded, leave the item blank. The RMCDS software program will automatically calculate age.
- b. If either the date of birth or the date of diagnosis is unknown, you may manually enter the age at diagnosis in the RMCDS program if you know or can estimate the patient's age, even without a birth date or diagnosis date.

PLACE OF BIRTH

Item Length: 3

ACoS: Required*

State Registry: Required through 2012

*This item was coded for cases diagnosed through 2012 and should be converted automatically by the registry's software to the 2013 items, Birthplace – State and Birthplace – Country.

Description

This is a 3-character field in the RMCDS abstract screen for recording a numeric code that identifies the state or country (if outside the United States) of the patient's birth. The State Registry requires the item if the information is available.

Codes

Use SEER Geocodes for Place of Birth. See The SEER Program Code Manual, Revised Edition, (<http://seer.cancer.gov/tools/codingmanuals/>) or Standards for Cancer Registries Volume II: Data Standards and Data, (<http://www.naaccr.org>).

Special Codes

000 United States, NOS

998 Place of birth outside of the United States, no other detail known

999 Place of birth unknown

Instructions

For further coding instructions, refer to the *FORDS*.

BIRTHPLACE - STATE

Item Length: 2
ACoS: Required
State Registry: Required if available

Description

This is a 2-character field for recording the patient's state of birth. The State Registry requires the item if the information is available.

Codes

See the table provided for *State at Diagnosis* for the list of state codes.

Special Codes

XX Born in a country other than the U.S. (including its territories, commonwealths, or possessions) or Canada and the country is known (code the country in *Birthplace-Country*)

YY Born in a country other than the U.S. (including its territories, commonwealths, or possessions) or Canada and the country is unknown

US Born in the U.S. (including its territories, commonwealths, or possessions) and the state is unknown

CD Born in Canada and the province is unknown.

ZZ Place of birth is unknown, not mentioned in the patient record

Note

This item was first defined for use in 2013. Cases diagnosed before 2013 should be converted automatically by the registry's software from the former *Place of Birth*.

BIRTHPLACE - COUNTRY

Item Length: 3

ACoS: Required

State Registry: Required if available

Description

This is a 3-character field for recording the country where the patient was born. The State Registry requires the item if the information is available.

Codes

For country codes, see one of the following:

- *The SEER Program Coding and Staging Manual*, Appendix B (<http://seer.cancer.gov/>);
- *NAACCR Standards for Cancer Registries Volume II: Data Standards and Data Dictionary*, Appendix B (<http://www.naaccr.org/>); or
- *FORDS* Appendix E (<http://www.facs.org/cancer/coc/fordsmanual.html>).

Examples

USA United States

CAN Canada

ZZX Non-US NOS

ZZU Place of birth is unknown, not mentioned in patient record

Note

This item was first defined for use in 2013. Cases diagnosed before 2013 should be converted automatically by the registry's software from the former *Place of Birth*.

MEDICAL RECORD NUMBER

Item Length: 11
 Data Type: Alphanumeric
 Right Justified, Blank Fill
 ACoS: Required
 State Registry: Required

Description

This is a required 11-character field to record the patient's medical record number. The medical record number is a patient identification number usually assigned by a hospital's medical record or health information management (HIM) department.

Instructions

- a. If the number is less than 11 digits, right justify and leave the leading spaces blank.

Example: Medical record number 24937 should be entered as _ _ _ _ _ 24937.

Note (for facilities using RMCDs): The medical record number may be entered from the left (left justified). After the record is exited, the RMCDs program will automatically right justify the number.

- b. Do not include any hyphens, dashes, slashes, or other punctuation.
- c. If the hospital uses the patient's Social Security Number for the medical record number, record it in this field without dashes or spaces. Right justify and leave the leading spaces blank.

Special Codes

_____ UNK	The patient's medical record number is unknown.
_____ RT	Radiation therapy department patient without HIM medical record number
_____ SU	One-day surgery clinic patient without HIM medical record number
blank	The patient does not have a medical record number at your hospital.

Note: Other standard abbreviations may be used to indicate departments within the facility for patients without HIM numbers.

SEX

Item Length: 1
Data Type: Numeric
ACoS: Required
State Registry: Required

Description

This is a required 1-character field to record a code that identifies the patient's sex.

Rationale

This data item is used to compare cancer rates and outcomes by site. The same sex code should appear in each medical record for a patient with multiple tumors.

Codes

- 1 Male
- 2 Female
- 3 Other (hermaphrodite)
- 4 Transsexual, NOS
- 5 Transsexual, natal male
- 6 Transsexual, natal female
- 9 Not stated

Note: Codes 5 and 6 were added for 2015, but may be used for earlier diagnoses.

PRIMARY PAYER AT DIAGNOSIS

Item Length: 2
 Data Type: Numeric
 ACoS: Required
 State Registry: *Required if available

*Required if available for cases diagnosed 01/01/2006 and later.

Description

This is a required 2-character field to identify the patient's primary payer/insurance carrier at the time of initial diagnosis and/or treatment.

Rationale

This item is used in financial analysis and as an indicator for quality and outcome analyses. Joint Commission of Accreditation of Healthcare Organizations (JCAHO) requires the patient admission page to document the type of insurance or payment structure that will cover the patient while being cared for at the hospital.

Codes

Code	Label	Definition
01	Not insured	Patient has no insurance and is declared a charity write-off.
02	Not insured, self-pay	Patient has no insurance and is declared responsible for charges.
10	Insurance, NOS	Type of insurance unknown or other than the types described in the definitions for codes 20, 21, 31, 35, 60-68.
20	Private Insurance: Managed care, HMO, PPO	An organized system of prepaid care for a group of enrollees usually within a defined geographic area. Generally formed as one of four types: a group model, an independent physician association (IPA), a network, or a staff model. "Gate-keeper model" is another term for describing this type of insurance.
21	Private Insurance: Fee-for-Service	An insurance plan that does not have negotiated fee structure with the participating hospital. Type of insurance plan not coded as 20.
31	Medicaid	State government administered insurance for persons who are uninsured, below the poverty level, or covered under entitlement programs. Medicaid other than those described in the definition for code 35.
35	Medicaid - Administered through a Managed Care plan	Patient is enrolled in Medicaid through a Managed Care program (e.g., HMO or PPO). The managed care plan pays for all incurred costs.
60	Medicare without supplement, Medicare, NOS	Federal government funded insurance for persons who are 65 years of age or older, or are chronically disabled (Social Security insurance eligible). Not described in the definitions for codes 61, 62, or 63.
61	Medicare with supplement, NOS	Patient has Medicare and another type of unspecified insurance to pay costs not covered by Medicare.
62	Medicare - Administered through a Managed Care plan	Patient is enrolled in Medicare through a Managed Care plan (e.g., HMO or PPO). The Managed Care plan pays for all incurred costs.
63	Medicare with private supplement	Patient has Medicare and private insurance to pay costs not covered by Medicare.
64	Medicare with Medicaid eligibility	Federal government Medicare insurance with State Medicaid administered supplement.

Code	Label	Definition
65	TRICARE	Department of Defense program providing supplementary civilian-sector hospital and medical services beyond a military treatment facility to military dependents, retirees, and their dependents. Formerly CHAMPUS (Civilian Health and Medical Program of the Uniformed Services).
66	Military	Military personnel or their dependents who are treated at a military facility.
67	Veterans Affairs	Veterans who are treated in Veterans Affairs facilities.
68	Indian/Public Health Service	Patient who receives care at an Indian Health Service facility or at another facility and the medical costs are reimbursed by the Indian Health Service. Patient receives care at a Public Health Service facility or at another facility and medical costs are reimbursed by the Public Health Service.
99	Insurance status unknown	It is unknown from the patient's medical record whether or not the patient is insured.

Instructions

- a. Record the applicable code from the above list for the type of insurance reported on the patient's admission page.
- b. Codes 21 and 65-68 are to be used for patients diagnosed on or after January 1, 2006.
- c. If more than one payer or insurance carrier is listed on the patient's admission page, record the first.
- d. If the patient's payer or insurance carrier changes, do not change the initially recorded code.

Codes with Examples:

- 01 An indigent patient is admitted with no insurance coverage.
- 20 A patient is admitted for treatment and the patient admission page states the primary insurance carrier is an HMO.
- 62 A 65-year old male patient is admitted for treatment and the patient admission page states the patient is covered by Medicare with additional insurance coverage from a PPO.

**RACE AND SPANISH ORIGIN
(RACE AND ETHNICITY)**

Item Length: 2 + 1
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This is a required 2-character field to record a code that identifies the patient's race and a required 1-character field to record a code for the patient's origin, if of Spanish/Hispanic descent.

Codes for Race

- 01 White
- 02 Black
- 03 American Indian, Aleutian, or Eskimo
- 04 Chinese
- 05 Japanese
- 06 Filipino
- 07 Hawaiian
- 08 Korean
- 09 Asian Indian, Pakistani
- 10 Vietnamese
- 11 Laotian
- 12 Hmong
- 13 Kampuchean (including Khmer and Cambodian)
- 14 Thai
- 20 Micronesian, NOS
- 21 Chamorro/Chamoru
- 22 Guamanian, NOS
- 25 Polynesian, NOS
- 26 Tahitian
- 27 Samoan
- 28 Tongan
- 30 Melanesian, NOS
- 31 Fiji Islander
- 32 New Guinean
- 88 No further race documented (for Race 2-5 in cases diagnosed 01/01/2000 and later)
- 96 Other Asian, including Asian, NOS and Oriental, NOS
- 97 Pacific Islander, NOS
- 98 Other
- 99 Unknown

Codes 20-97 were adopted for use effective with 1991 diagnoses. Code 14 was adopted for use effective with 1994 and later cases.

Definitions

- a. **Code 01** (white) includes Mexican, Puerto Rican, Cuban, and all other Caucasians.
- b. **Code 02** (black) includes persons reported as African American, Afro-American, Negro, brown, or colored.
- c. **Code 13** (Kampuchean) includes patients whose race is listed as Cambodian.

Instructions

- a. Additional races reported by the person should be coded in *Race 2*, *Race 3*, *Race 4*, and *Race 5*. If the patient is multiracial, code all races using *Race 2* through *Race 5*, and code all remaining *Race* items 88.
- b. All tumors for the same patient should have the same race code.

- c. If *Race 1* is coded 99, then *Race 2* through *Race 5* must all be coded 99. If *Race 2, 3, or 4* is coded 88 or 99, then all the subsequent *Race* items must be coded with the same value.
- d. For cases diagnosed prior to January 1, 2000 (*Race Coding System-Current* is less than six), *Race 2* through *Race 5* must be blank unless the patient has more than one primary with at least one primary diagnosed after January 1, 2000. In this case, the race codes for all primaries must be the same as the one for the primary diagnosed after January 1, 2000. *Race Coding System-Current* must be six and data items *Race 2* through *Race 5* that do not have specific race recorded must be coded 88.
- e. *Race 1* is the field used to compare with race data on cases diagnosed prior to January 1, 2000.
- f. Race is based on birth place information when place of birth is reported as China, Japan, or the Philippines and race is reported only as Asian, Oriental, Mongolian, or Yellow.

If place of birth is China, Japan, or the Philippines, and race is not reported, code the race as 99 (Unknown). Place of birth alone can not be used to determine race or ethnicity.

Codes with Examples:

- 01 A patient was born in Mexico of Mexican parentage. Code also *Spanish/Hispanic Origin*.
- 02 A black female patient. A specific race code (other than blank or 99) must not occur more than once. For example, do not code "Black" in *Race 1* for one parent and "Black" in *Race 2* for the other parent.
- 05 A patient has a Japanese father and a Caucasian mother. (Caucasian will be coded in *Race 2*). If a person's race is recorded as a combination of white and any other race, code to the other race in the *Race 1* field and then code Caucasian as "White" in the next race field.
- 05 A patient's race is listed as Asian and the birthplace is Japan. Code to birthplace. When the race is recorded as "Oriental," "Mongolian," or "Asian," and the place of birth is recorded as China, Japan, the Philippines, or another Asian nation, code the race based on birthplace information.
- 07 A patient has a Hawaiian father, black mother, Japanese grandfather, and Korean grandmother. If a person's race is recorded as a combination of Hawaiian and any other race(s), code the person's primary race as Hawaiian and code the other races in *Race 2, Race 3, Race 4, and Race 5* as appropriate. In this case, black to *Race 2*; Japanese to *Race 3*; and Korean to *Race 4*.
- 08 A patient is of Korean and Asian ancestry. Do not code "Asian" in a subsequent race field if a specific Asian race(s) has already been coded.
- 25 A patient with a Polynesian mother, Tahitian father, and Samoan grandparents.
- 99 A patient's race is unknown. *Race 2* through *Race 5* must also be 99.

Description for Spanish Origin

This item identifies persons of Spanish/Hispanic surname or ethnicity. Persons of Spanish/Hispanic origin may be of any race, but these categories are generally not used for native Americans, Filipinos, or others who may have Spanish surnames.

Codes for Spanish Origin

- 0 Non-Spanish; non-Hispanic; not Spanish surname
- 1 Mexican (includes Chicano)
- 2 Puerto Rican
- 3 Cuban
- 4 South or Central American (except Brazilian)
- 5 Other specified Spanish/Hispanic origin (includes European and third or fourth generation patients coded 1, 2, 3, or 4)

- 6 Spanish, NOS; Hispanic, NOS; Latino, NOS (There is evidence other than surname or maiden name that the person is Hispanic, but he/she cannot be assigned to any of the categories 1 to 5; Spanish/Hispanic surname but country of origin unknown.)
- 7 Spanish surname only (The only evidence of the person's Hispanic origin is surname or maiden name and there is no contrary evidence that the person is not Hispanic.)
- 9 Unknown whether Spanish or not

Code 7 was adopted for use effective with 1994 diagnoses. It does not include computer assignment of ethnicity.

Definitions and Rules for Spanish Origin

- a. Use code 0 (Non-Spanish; non-Hispanic) for Portuguese and Brazilian persons.
- b. Code European Spanish and Basque as other specified Spanish/Hispanic origin (Code 5).
- c. Follow the rules for race in coding patients with mixed parentage.
- d. If the patient has multiple tumors, all records should have the same code.

USUAL OCCUPATION

Item Length: 100
Data Type: Text
ACoS: N/A
State Registry: Required

Description

This is a required text field to record the patient's occupation, if available.

Rationale

Occupation is collected to meet the requirements of the Federal cancer registries grant. The item may be used to identify new work-related health hazards and to identify occupational groups in which cancer screening or prevention activities may be beneficial. It may also serve as an additional measure of socioeconomic status.

Instructions

- a. Record the patient's usual occupation (that is, the kind of work performed during most of the patient's working life before diagnosis of this tumor). This may be different from the occupation at the time of diagnosis.
- b. **Do not** record "retired." Do not add, "retired," to the usual occupation. (e.g., record "registered nurse" **not** "retired registered nurse.")
- c. Do **not** record "disabled," "unemployed," or "institutionalized" if the patient was ever employed. Record the longest-held occupation.
- d. If self-employed, specify the kind of work performed. (e.g., "self-employed auto mechanic")
- e. If usual occupation is not available or is unknown, record the patient's current or most recent occupation or any known occupation.
- f. If the patient was a homemaker (housewife/househusband) and also worked outside the home during most of his/her adult life, record usual occupation outside the home.

If the patient was a homemaker (housewife/househusband) and did not work outside the home for most of his/her adult life, record "homemaker."
- g. If the patient is less than 14 years of age at the time of diagnosis, record "child."
- h. If the patient was student at the time of diagnosis and had never held a job, record "student."
- i. If the patient was not a student or homemaker and had never worked, record "never worked" as the usual occupation.
- j. If no information related to the patient's occupation is available, record "unknown."
- k. Update this field if better information is obtained as to the usual occupation of the patient.

USUAL INDUSTRY

Item Length: 100
Data Type: Text
ACoS: N/A
State Registry: Required

Description

This is a required text field to record the company or industry, if available, for the occupation recorded in the preceding field.

Rationale

Both occupation and business/industry are required to accurately describe an individual's occupation. The item may be used to identify new work-related health hazards and to identify worksite-related groups in which cancer screening or prevention activities may be beneficial. It may also serve as an additional measure of socioeconomic status.

Instructions

- a. Record the primary type of activity carried on by the business/industry where the patient was employed for the most number of years before diagnosis of this tumor. This may be different from the company or industry of the patient's occupation at the time of diagnosis.
- b. Be sure to distinguish among "manufacturing," "wholesale," "retail," and "service" components of an industry that performs more than one of these components.
- c. If the primary activity carried on at the location where the patient worked is unknown, it may be sufficient to record the name of the company (with city or town) for which the patient performed his/her usual occupation.
- d. If only current or most recent occupation (rather than usual occupation) is documented, record the patient's current or most recent business/industry.
- e. There should be an entry for *Usual Industry* if any occupation is reported.
 - If *Usual Occupation* is "homemaker," record "own home" in *Usual Industry*.
 - If *Usual Occupation* is "child," record "child" in *Usual Industry*.
 - If *Usual Occupation* is "military," record "military" in *Usual Industry*.
 - If *Usual Occupation* is "student," record the type of school ("high school," "college") in *Usual Industry*.
 - If *Usual Occupation* is "never worked," record "none" in *Usual Industry*.
 - If no information is available regarding the industry in which the reported occupation was carried out, record "unknown" in *Usual Industry*.
- f. Update this field if better information is obtained as to the usual industry of the patient.

OTHER PRIMARY TUMOR(S)

Data Type: Text
ACoS: N/A
State Registry: Required

Description

This is a required text field in the paper and RMCDS abstracts for recording any other primary, malignant tumors from the patient's history, or other primary tumors diagnosed simultaneously with or after the tumor being reported. Facilities using other types of registry software should follow their vendor's instructions for recording text about other primary tumors.

Rationale

Text is needed to justify the codes selected for the data items and to record information that is not coded at all. The text is used for quality control and special studies.

Instructions

- a. Record site, histology, date of diagnosis, and sequence number for all other primary, malignant tumors from the patient's history, or other primary tumors diagnosed simultaneously with or after the tumor being reported.

Example: Right breast, infiltrating duct carcinoma, July 1980, 01

- b. Follow the *SEER Multiple Primary and Histology Coding Rules*.
- c. If the person does not have, or has not had, another primary, malignant tumor, record "None."

DATE OF FIRST CONTACT
(INPATIENT OR OUTPATIENT ADMISSION DATE)

Item Length: 8
Data Type: Numeric
ACoS: Required
State Registry: Required

Description

This is a required 8-character field for the date the patient was first seen at or first admitted to your hospital for this tumor after your reference date. Use whichever date is earlier. Determine whether your software vendor uses the traditional format for date entry (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format.

Codes

	<u>Month</u>	<u>Day</u>	<u>Year</u>
01	January	01	Use four-digit year (e.g., 2015)
02	February	02	blank = Year unknown
03	March	03	
04	April	...	
05	May	...	
06	June	25	
07	July	26	
08	August	...	
09	September	30	
10	October	31	
11	November	blank = Day unknown	
12	December		
blank	Month unknown		

Instructions

- Record the first (earliest) date the patient was seen at your facility as either an inpatient or outpatient for diagnosis and/or first course treatment of a reportable tumor. The date may be the date of an outpatient visit for a biopsy, x-ray, or laboratory text, or the date a pathology specimen was collected at the facility.
- For analytic cases (*Class of Case* 00-22), the *Date of First Contact* is the date the patient became analytic. For non-analytic cases, it is the date the patient first qualified for the *Class of Case* that causes the case to be abstracted.
- If the patient was first seen as an outpatient, enter the date the patient was first seen in the outpatient department for this primary tumor. For cases diagnosed by scans or x-rays on an outpatient basis at your hospital and then admitted to your hospital, record the date of the scan or x-ray. If patient returned for subsequent outpatient visits, use only the initial date.

Example: A patient has an MRI of the brain on December 7, 2014 for symptoms of severe headache and disorientation. The MRI findings are suspicious for astrocytoma. Surgery is performed on December 19, 2014, removing all gross tumor. *Date of First Contact* is December 7, 2014.

- For cases diagnosed in the staff physician's office and then referred to your hospital for first course of therapy, record the date the patient was physically first seen at your hospital as an inpatient or outpatient.

Example: A biopsy is performed in a staff physician's office on September 8, 2014. The biopsy specimen is read at the reporting facility's pathology department as malignant melanoma. The patient presents to the reporting facility for wide re-excision on September 14, 2014. *Date of First Contact* is September 14, 2014.

- e. For cases diagnosed at another hospital, the date of first contact would be the date first seen at your hospital for treatment of this tumor, even if the patient was previously seen at your hospital as a consultation or for other reasons and no treatment was given for cancer.
- f. If the primary was diagnosed during a long-term hospitalization (those in nursing homes, psychiatric facilities, or VA hospitals), use the date of diagnosis as the date of first contact.

Example: A patient has been an inpatient for several months at a Veterans Administration Hospital for an unrelated illness. After having been hospitalized for several months a new primary is discovered during a routine exam. Enter the date the diagnosis was made, rather than the date the patient was first admitted to the VA Hospital.

- g. If the cancer was not suspected while the patient was alive and hospitalized, but was an incidental finding on post mortem exam (autopsy), use the date of death as the date of first contact. There must be no suspicion of cancer prior to autopsy.
- h. For cases diagnosed at your hospital prior to your reference (starting) date, record the first date seen for that malignancy after your reference date.
- i. For pathology-only cases, record the date on which the specimen was collected.
- j. If the date of first contact cannot be determined at all, leave the date of first contact field blank and record the reason in *Date of First Contact Flag*. See the *Date of First Contact Flag* section for examples illustrating the relationships among these items.

Coding Tip: The year in the *Date of First Contact* item should match the first four digits of your hospital accession number for most patients' first primary (unless patient was admitted at the end of one year and not diagnosed until the next year).

DATE OF 1ST CONTACT FLAG

Item Length: 2
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This flag explains why there is no appropriate value in the corresponding date field, *Date of 1st Contact* (NAACCR Item #580). This data item was added to Volume II Version 12 (effective January 2010).

Rationale

Prior to version 12 (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields.

Codes

12 A valid date is applicable but not known. (The date of 1st contact is unknown.)
 Blank A valid date is coded in the *Date of 1st Contact* item (NAACCR Item #580).

Instructions

- Leave this item blank if *Date of 1st Contact* has a full or partial date recorded.
- Use code 12 if the *1st Contact* cannot be determined at all.
- Code this data item (when appropriate) even if your software uses the traditional format for date entry.

Examples:

Description	Date (Leave unknown portions blank.)	Date of First Contact Flag
Full date known	*01/08/2015 or 2015/01/08	Blank
Month & year known	*01/_ _/2015 or 2015/01/_ _	Blank
Year only known	*_ _/_ _/2015 or 2015/_ _/_ _	Blank
Unknown date	*_ _/_ _/_ _ _ _ or _ _ _ _/_ _/_ _	12

* For date entry, your software may use the traditional format (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format. The computer will store either in the interoperable format.

HOSPITAL ACCESSION NUMBER

Item Length: 9
Data Type: Numeric
ACoS: Required
State Registry: Required

Description

This is a required 9-character field for the unique number assigned to each cancer patient seen at your hospital. The first 4 digits indicate a year (YYYY) and the next 5 digits indicate a sequential number (#####) in which the cancer was first entered into the registry, so that the accession number is recorded as YYYY#####. Each new calendar year starts over again on January 1 with accession number 00001.

Examples: 201200007; 201200014; 201200123; 201200537; 201500001.

Instructions

- a. Assign accession numbers on a sequential basis, with the first four digits indicating the year the patient was first seen at your facility for the diagnosis and/or treatment of cancer. The last five digits indicate the numerical order in which the registry entered the case for that calendar year.
- b. The first four digits of the accession number are based on the date the patient was first seen for the diagnosis and/or treatment of cancer at your hospital following your registry's reference date. The "reference date," which always begins on January 1 of a given year, is the date the hospital first started their registry. Therefore, the first four digits of the accession number is never less than the registry's reference date unless the reference date is changed (see **Exception** below).

Example: If you began reporting cancer cases to the State Cancer Registry when the requirement began on January 1, 1987 and continue to report only for state requirements, your reference date would be January 1, 1987. All cases in your registry should have an accession number of 1987_ _ _ _ _ or higher.

Exception: If a patient is first accessioned into the registry, then the registry later changes its reference date and the patient is subsequently accessioned into the registry with a new primary, use the original accession number associated with the patient and code the sequence appropriately.

Example: A patient is diagnosed by the hospital with prostate cancer in 1991 and assigned accession number 199100067. The registry later sets a new reference date of January 1, 1997. The same patient is admitted and diagnosed with lymphoma in 2015. Use accession number 199100067 and sequence 02 for the lymphoma case.

- c. Enter leading zeros for numbers less than five digits.

Example: A patient is first admitted to your facility for treatment of cancer in 2015. The first four digits of the accession number are 2015. If the patient is the 25th patient to be accessioned (entered) in your registry in 2015, the last five digits of the accession number would be 00025. The full accession number for this patient would be 201500025.

- d. Assign a unique accession number to each patient. A patient cannot have more than one accession number at your facility. Patients who contract a second or third primary cancer retain the same 9-digit accession number for primaries. (The sequence number will distinguish between the various primaries.)

Before assigning an accession number to a patient, check your alphabetic index to see if the patient has ever been entered in your registry before. Do not assign a new accession number to a patient who already has another accession number.

Example: John Smith was first seen and diagnosed at your hospital in 1999 with a primary cancer of the prostate. He was assigned accession number 199900010-00 (1999 is the year first accessioned, 00010 is the accession number, and 00 is the sequence number). In 2015, he was diagnosed with a second primary cancer of the pancreas. The accession number for the pancreatic primary would be 199900010-02. The patient will always keep his originally assigned accession number. Only the sequence number changes. The sequence number will distinguish the two primaries.

- e. Each new patient added to the registry should be given the next highest number in sequential order (201500001, 201500002, 201500003, etc.). The order patients are assigned an accession number within a particular year does not matter. Accession numbers do not need to be kept in date order of diagnosis, admission, discharge, or abstracting. For example, a case first seen in September 2015 (201500175) can have a lower accession number than a case first seen in July 2015 (201500176).
- f. Do not skip over numbers to allow for earlier cases to be inserted later. Numeric gaps in accession numbers should occur only if a case is deleted from your database. Do not reuse the accession number for a different patient to avoid any chance of two cases having the same accession number.
- g. The first four digits of the accession number are the year in which the patient was first seen at your hospital. If the patient's first primary was seen at another hospital and therefore was not recorded in your registry, enter the year the patient's earliest sequenced primary was diagnosed and/or treated at your facility.

Example 1: Mary Jones was diagnosed with her first primary malignancy at Hospital A in 2011. Hospital A gave her accession number 201100021-00, since she was the 21st patient to be accessioned at Hospital A in 2011. In 2015, Mary Jones went to Hospital B with a second primary. Hospital B assigned her accession number 201500152-02 since she was seen at hospital B for the first time in 2015 and was the 152nd patient entered in their registry. Hospital A should change their sequence number from 201100021-00 to 201100021-01.

Example 2: A new primary for a patient initially diagnosed and admitted in 2013 was not identified by the tumor registrar until 2015. The first four digits of the accession number would be 2013, based on the date of admission (date of first contact for this primary). It would not be 2015, the year the primary was identified by the registrar.

- h. The first four digits of the accession number match the year recorded in *Date of First Contact* for the first accessioned primary (explained earlier in this chapter).

Example 1: A patient who was first seen as an outpatient in 2015 is the first patient to be entered into your registry in 2015. His accession number would be 201500001.

Exception: If the patient was first seen at your facility at the end of one year but was not diagnosed until the beginning of the next year, his accession number should be the year he was diagnosed.

Example 2: A patient first entered your hospital as an inpatient in December 2014, but was not diagnosed until January 2015. The first four digits of the accession number should be 2015, since the majority of the reports and service for this cancer would be provided in 2015.

HOSPITAL SEQUENCE NUMBER

Item Length: 2
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This is a required 2-character field for the number that indicates the chronological order of this primary tumor in relation to other reportable, independent, malignant and non-malignant neoplasms diagnosed in the patient's lifetime. The sequence number reflects all of a patient's reportable tumors, not just those seen at your hospital.

Rationale

This data item is used to distinguish among cases having the same accession numbers, to select patients with only one malignant primary tumor for certain follow-up studies, and to analyze factors involved in the development of multiple tumors.

Codes for Reportable Malignant or In Situ Primary Tumors:

Code	Definition
00	One malignant or in situ primary only in the patient's lifetime
01	First of two or more independent malignant or in situ primaries
02	Second of two or more independent malignant or in situ primaries
03	Third of three or more independent malignant or in situ primaries
...	
...	(actual sequence of this malignant or in situ primary)
...	
35	Thirty-fifth of thirty-five independent malignant or in situ primaries
99	Unspecified malignant or in situ sequence number or unknown

Note: When this field is left blank in the RMCDs program, the system defaults to code "00."

Codes for Non-Malignant Tumors and Nonreportable Malignant or In Situ Tumors:

Code	Definition
60	Only one non-malignant primary
61	First of two or more independent non-malignant primaries
62	Second of two or more independent non-malignant primaries
...	
...	(Consecutive number of non-malignant primaries)
...	
87	Twenty-seventh of twenty-seven independent non-malignant primaries
88	Unspecified number of neoplasms in this category

Definitions

- Hospital sequence number:** The code indicating the sequencing of reportable neoplasms in the patient's lifetime, according to the information and rules of the hospital registry.
- Central sequence number:** The code indicating the sequencing of reportable neoplasms in the patient's lifetime, according to the information and rules of the central registry.
- Reportable-by-agreement tumors:** Diagnoses not required by CoC but defined as reportable by the facility's cancer committee or the state registry. Such diagnoses may be benign, borderline, or malignant. Diagnoses required by the NPCR the Indiana State Cancer Registry, but not by CoC, include VIN III, VAIN III, and AIN.

Example: The State Registry requires the hospital to report vaginal intraepithelial neoplasia, grade III (VAIN III, 8077/2). The cancer committee adds VAIN III to their reportable-by-agreement list and decides to accession and abstract these cases to comply with State requirements.

- d. The following table* illustrates the Indiana State Cancer Registry (ISCR) sequence number series by type of neoplasm.

Neoplasm	ISCR Sequence (Numeric Series)
Malignant (Behavior Code = 3) Includes AJCC T3, T4, or M1 Skin Squamous Cell and Basal Carcinomas diagnosed before 2003.	00-35
Juvenile Astrocytoma diagnosed 2001 and later (Report as 9421/3.)	00-35
In Situ (Behavior Code = 2). Includes VIN III, VAIN III, AIN III. Includes Cervix CIS/CIN III diagnosed before 1996.	00-35
Cervix CIS/CIN III diagnosed 1996-2002	98
Cervix CIS/CIN III diagnosed 2003 and later	60-87
PIN III	60-87
Borderline/Benign Intracranial and Central Nervous System	60-87
Other Borderline/Benign	60-87
Skin Squamous Cell and Basal Carcinomas diagnosed 2003 and later	60-87

*Adapted from "NAACCR 2003 Implementation Workgroup Guidelines, January 2003."

Instructions

- Use codes 00-35 and 99 for reportable invasive or in situ neoplasms.
- Use codes 60-88 for non-malignant neoplasms and nonreportable invasive or in situ neoplasms.
- Use Code 00 only if the patient has a single invasive or in situ primary. If the patient develops a subsequent invasive or in situ primary tumor, change the code for the first tumor from 00 to 01, and number subsequent tumors sequentially.

Example 1: Use code 00 for a patient with no history of previous cancer is diagnosed within situ breast carcinoma January 13, 2015.

Example 2: Change the sequence to 01 for the January 13, 2015 breast carcinoma when the patient is diagnosed with a subsequent skin melanoma on July 30, 2015.

Example 3: Assign sequence 02 to the skin melanoma diagnosed on July 30, 2015 following a breast carcinoma diagnosed on January 13, 2015.

Use sequence 00 if there is no information available to indicate the patient has been diagnosed with an earlier primary malignancy. Assume the tumor being reported is the first. A history of surgery such as hysterectomy or colectomy should not be interpreted as evidence of an earlier malignancy without confirmation, since surgery is also performed to treat benign conditions.

- Use sequence 99 only when there is information that suggests the possibility of an earlier malignancy, but the medical record does not document a definite diagnosis.

Example: A patient is diagnosed in the reporting hospital with cancer of the colon. The medical record contains the statement, "The patient recently had a salivary gland tumor removed. The patient does not know if the lesion was malignant." The registry assigns sequence number 99 to the colon primary. The patient returns to the reporting facility a

year later for prostate cancer treatment. The medical record states, "The patient has a history of a malignant salivary gland tumor." Change the sequence number of the colon cancer from 99 to 02. Assign the sequence number 03 to the prostate cancer.

- e. If a patient has had a reportable tumor that the facility did not accession, it is accounted for in sequencing subsequent tumors.

Example 1: Your hospital diagnoses a patient with colon cancer. The patient has a history of kidney cancer diagnosed and treated elsewhere. Assign sequence number 02 to the colon cancer.

Example 2: A patient is diagnosed with breast cancer in 1985. Hospital A's reference date is 1987. In 2015, this patient has a primary of the lung. Assign sequence number 02 to the lung cancer.

- f. Sequence numbers should be reassigned if the facility learns later of an unaccessioned tumor that would affect the sequence.
- g. If two or more CoC required neoplasms are diagnosed at the same time, assign the lowest sequence number to the diagnosis with the worst prognosis. If no difference in prognosis is evident, the decision is arbitrary.

Example 1: A patient enters your facility with simultaneous invasive carcinoma of the cervix and invasive adenocarcinoma of the colon. Assign sequence number 01 to the colon primary and sequence number 02 to the cervix primary.

Example 2: A patient has simultaneous adenocarcinoma in situ in a colon polyp and squamous cell carcinoma in situ in a vocal cord polyp. Assign sequence numbers as you choose. Both primaries have similar prognoses.

- h. Use code 60 only if the patient has single non-malignant primary. If the patient develops a subsequent non-malignant primary tumor, change the code for the first tumor from 60 to 61, and assign codes to subsequent non-malignant tumors sequentially.
- i. The sequence codes for malignant/in situ and non-malignant cases are assigned independently. Assign sequence 60 to the first non-malignant tumor in a patient with a prior malignant or in situ primary with sequence number 00.

CLASS OF CASE

Item Length: 2
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

For a hospital registry, Class of Case divides cases into two groups. Analytic cases (codes 00-22) are those that are required by CoC to be abstracted because of the program's primary responsibility in managing the cancer. Analytic cases are grouped according to the location of diagnosis and treatment. Treatment and outcome reports may be limited to analytic cases. Nonanalytic cases (codes 30-49 and 99) may be abstracted by the facility to meet central registry requirements or because of a request by the facility's cancer program. Nonanalytic cases are grouped according to the reason a patient who received care at the facility is nonanalytic, or the reason a patient who never received care at the facility may have been abstracted.

Class of Case can be used in conjunction with Type of Reporting Source [500]. Type of Reporting Source is designed to document the source of documents used to abstract the cancer being reported.

Rationale

Class of Case reflects the facility's role in managing the cancer, whether the cancer is required to be reported by CoC, and whether the case was diagnosed after the program's Reference Date.

Codes**Analytic Classes of Case (Required by CoC to be abstracted by approved programs)**

- 00 Initial diagnosis at the reporting facility AND all treatment or a decision not to treat was done elsewhere
- 10 Initial diagnosis at the reporting facility or in an office of a physician with admitting privileges AND part or all of first course treatment or a decision not to treat was at the reporting facility, NOS
- 11 Initial diagnosis in an office of a physician with admitting privileges AND part of first course treatment was done at the reporting facility
- 12 Initial diagnosis in an office of a physician with admitting privileges AND all first course treatment or a decision not to treat was done at the reporting facility
- 13 Initial diagnosis AND part of first course treatment was done at the reporting facility
- 14 Initial diagnosis AND all first course treatment or a decision not to treat was done at the reporting facility
- 20 Initial diagnosis elsewhere AND all or part of first course treatment was done at the reporting facility, NOS
- 21 Initial diagnosis elsewhere AND part of treatment was done at the reporting facility
- 22 Initial diagnosis elsewhere AND all treatment was done at the reporting facility

Classes of Case not required by CoC to be abstracted; required by Cancer Committee, state or regional registry, or other entityPatient appears in person at reporting facility

- 30 Initial diagnosis and all first course treatment elsewhere AND reporting facility participated in diagnostic workup (for example, consult only, staging workup after initial diagnosis elsewhere)
- 31 Initial diagnosis and all first course treatment elsewhere AND reporting facility provided in-transit care
- 32 Diagnosis AND all first course treatment provided elsewhere AND patient presents at reporting facility with disease recurrence or persistence
- 33 Diagnosis AND all first course treatment provided elsewhere AND patient presents at reporting facility with disease history only
- 34 Type of case not required by CoC to be accessioned (for example, a benign colon tumor) having initial diagnosis AND part or all of first course treatment by reporting facility
- 35 Case diagnosed before program's Reference Date, having initial diagnosis AND part or all of first course treatment by reporting facility
- 36 Type of case not required by CoC to be accessioned (for example, a benign colon tumor) having

- initial diagnosis elsewhere AND all or part of first course treatment by reporting facility
- 37 Case diagnosed before program's Reference Date, having initial diagnosis elsewhere AND all or part of first course treatment by facility
- 38 Initial diagnosis established by autopsy at the reporting facility, cancer not suspected prior to death

Patient does not appear in person at reporting facility

- 40 Diagnosis AND all first course treatment given at the same staff physician's office
- 41 Diagnosis and all first course treatment given in two or more different offices of physicians with admitting privileges
- 42 Non-staff physician or non-CoC approved clinic or other facility, not part of reporting facility, accessioned by reporting facility for diagnosis and/or treatment by that entity (for example, hospital abstracts cases from an independent radiation facility)
- 43 Pathology or other lab specimens only
- 49 Death certificate only
- 99 Case not required by CoC to be abstracted of unknown relationship to facility (not for use by CoC approved cancer programs for analytic cases.)

Definitions

- a. Initial diagnosis: This refers to the first time a physician indicates that the patient has cancer. The initial diagnosis may be clinical or microscopic and it may be based on ambiguous terminology.
- b. Treatment: Treatment includes any first course activity coded as *Surgical Procedure of Primary Site, Scope of Regional Lymph Node Surgery, Surgical Procedure/Other Site, Radiation Treatment, Chemotherapy, Hormone Therapy, Immunotherapy, Hematologic Transplant and Endocrine Procedures, or Other Treatment*.

Palliative care (undertaken to reduce the patient's symptoms) involving surgery, systemic treatment, or radiation is also coded as treatment and qualifies the patient as analytic if given as part of planned first course treatment.

Decisions not to treat, whether initiated by the physician (contraindicating conditions) or by the patient (refusal), or decisions for active surveillance ("watchful waiting") are also considered treatment for assigning Class of Case.

- c. Physicians with admitting privileges: Physicians who are not employed by the reporting facility but are under contract with it or have routine admitting privileges there.

Instructions

- a. Assign the Class of Case code that most precisely describes the patient's relationship to the facility.
- b. It is possible that information for coding Class of Case will change during the patient's first course of care. Change the Class of Case code accordingly if that occurs.

If a patient has been accessioned into your registry as an analytic case (codes 00-22), do not reaccession or change the class of case code if the patient returns for a recurrence, subsequent treatment, or progression of disease involving the same primary.

- c. Assign code 00 only when it is known that the patient went elsewhere for treatment. If it is not known that the patient actually went somewhere else, assign Class of Case code 10.
- d. Report all analytic cases (codes 00-22), to the State Cancer Registry.
- e. Report specified nonanalytic cases (codes 30, 32, 34-38, 40-41) that meet criteria described in Chapter 3 of this manual.

NPI-INSTITUTION REFERRED FROM

Item Length: 10
Data Type: Numeric
Right Justify, Zero Fill
ACoS: Required
State Registry: Required

Description

This is a required 10-character field for recording an identification number for the facility from which the patient was referred. This field is used to identify referral patterns and is important for tracking patients within the statewide database.

Codes

Record the 10-digit NPI for the referring facility. NPI numbers for Indiana facilities are provided in Appendix D of this manual.

Instructions

- a. Identify the referring facility only if the cancer being reported was definitively diagnosed and/or treated at the referring facility.
- b. Leave the item blank for the following:
 - The NPI for the referring facility is unknown or not available; or
 - The patient was not referred to the reporting facility from another facility.

NPI-INSTITUTION REFERRED TO

Item Length: 10
Data Type: Numeric
Right Justify, Zero Fill
ACoS: Required
State Registry: Required

Description

This is a required 10-character field for recording an identification number for the facility to which the patient is referred for definitive treatment after discharge from your facility. This field is used to identify referral patterns and is important for tracking patients within the statewide database.

Codes

Record the 10-digit NPI for the referring facility. NPI numbers for Indiana facilities are provided in Appendix D of this manual.

Instructions

- a. If the patient was referred to more than one hospital for definitive treatment, record the code for the first hospital to which the patient was referred.
- b. Leave the item blank for the following:
 - The NPI for the facility referred to is unknown or not available; or
 - The patient was not referred to another facility.

IF DIAGNOSED ELSEWHERE, RECORD WHERE

Data Type: Text
ACoS: N/A
State Registry: Required

Description

This is a required text field for recording where the patient was diagnosed, if not at your facility. The item is required if applicable and available.

Rationale

Text is needed to justify the codes selected for the data items and to record information that is not coded at all. The text is used for quality control and special studies.

Instructions

- a. Record the name of the facility or physician's office where the patient was diagnosed.

Examples: Name of another hospital, physician (by name) office, name of freestanding clinic, etc.

- b. If the patient was diagnosed in your facility, leave the field blank.
- c. Record "unknown" if the patient was diagnosed elsewhere, but it is unknown where.

CASEFINDING SOURCE

Item Length: 2
 Data Type: Numeric
 ACoS: Not Required
 State Registry: *Required

*Required if available for cases diagnosed 01/01/2012 and later.

Description

This is a required 2-character field for coding the source that first identified the tumor. For cases identified by a source other than reporting facilities (such as through death clearance or as a result of an audit), the codes reflect the type of source through which the tumor was first identified.

Rationale

This data item will help reporting facilities as well as regional and central registries in prioritizing their casefinding activities. It will identify reportable tumors that were first found through death clearance or sources other than traditional reporting facilities. It provides more detail than "Type of Reporting Source." This data item cannot be used by itself as a data quality indicator. The timing of the casefinding processes (e.g., death linkage) varies from registry to registry, and the coded value of this variable is a function of that timing.

CodesCase first identified at a reporting facility

- 10 Reporting hospital, NOS
- 20 Pathology department review (surgical pathology reports, autopsies, or cytology reports)
- 21 Daily discharge review (daily screening of discharged patients' records in the medical record/health information department)
- 22 Disease index review (review of the medical record/health information department's disease index)
- 23 Radiation therapy department/center
- 24 Laboratory reports (other than pathology reports defined for code 20)
- 25 Outpatient chemotherapy
- 26 Diagnostic imaging/radiology, including nuclear medicine (other than radiation therapy, code 23)
- 27 Tumor board
- 28 Hospital rehabilitation service or clinic
- 29 Other hospital source (including clinic, NOS or outpatient department, NOS)

Case first identified by source other than a reporting facility covered in the above codes (10-29)

- 30 Physician-initiated case
- 40 Consultation-only or pathology-only report (not abstracted by reporting hospital)
- 50 Independent (non-hospital) pathology-laboratory report
- 60 Nursing home-initiated case
- 70 Coroner's office records review
- 75 Managed Care Organization (MCO) or insurance records
- 80 Death certificate (case identified through death clearance)
- 85 Out-of-state case sharing
- 90 Other non-reporting hospital source
- 95 Quality control review (case initially identified through quality control activities such as casefinding audit of a regional or central registry)
- 99 Unknown

Instructions

1. For State reporting, this item may be left blank for cases diagnosed before 2012.
2. Determine where the case was first identified and assign the appropriate code.

If the case was first identified at a reporting facility (codes 10-29), assign the code for the earliest source of identifying information (based on patient or specimen contact at the facility).

At the regional or central level, if a hospital and a non-hospital source identified the case independently of each other, the code for the non-hospital source should be assigned. Codes 30-95 have priority over codes 10-29.

3. If a death certificate, independent pathology laboratory report, consultation-only report from a hospital, or other report was used to identify a case that was then abstracted from a different source, assign the code for the source that first identified the case, not the source from which it was subsequently abstracted.
4. If a regional or central registry identifies a case and asks a reporting facility to abstract it, assign the code that corresponds to the initial source, not the code that corresponds to the eventual reporting facility.

DATE OF INITIAL DIAGNOSIS

Item Length: 8
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This is a required 8-character field for the date this primary cancer was diagnosed by a recognized medical practitioner. Determine whether your software vendor uses the traditional format for date entry (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format.

Rationale

The timing for staging and treatment of cancer begins with the date of initial diagnosis for cancer.

Codes

	<u>Month</u>	<u>Day</u>	<u>Year</u>
01	January	01	Use four-digit year (e.g., 2015) blank = Year unknown
02	February	02	
03	March	03	
04	April	...	
05	May	...	
06	June	25	
07	July	26	
08	August	...	
09	September	30	
10	October	31	
11	November	blank = Day unknown	
12	December		
blank	Month unknown		

Definition

This date refers to the date this cancer was diagnosed by any recognized medical practitioner. The first diagnosis is often clinical and may never be histologically confirmed. Refer to the list of terms that represent a clinical diagnosis in Chapter 4. Do not change the date of diagnosis when a later biopsy or cytology provides confirmation of a clinical diagnosis. Even if confirmed later, the diagnosis date refers to the date of the first clinical diagnosis and not to the date of confirmation. The date of the first clinical diagnosis provides a more accurate picture of the true survival time from date of diagnosis to death when determining survival statistics.

Example 1: A March 12, 2015 mammogram reveals a mass in the upper-outer quadrant of a patient's right breast compatible with carcinoma. On March 20, 2015, the patient has an excisional breast biopsy that confirms infiltrating ductal carcinoma. Date of diagnosis is March 12, 2015.

Example 2: A physician notes a prostate nodule that is suspicious for cancer during a May 11, 2015 physical examination. On June 15, 2015, an ultrasound guided needle biopsy of the prostate provides histologic confirmation of adenocarcinoma. Date of diagnosis is May 11, 2015.

Instructions

- If the physician says that in retrospect, the patient had cancer at an earlier date, use that earlier date as the date of diagnosis. When a tumor has been diagnosed as benign and a later medical or pathologic review of previous slides or x-ray films changes this to a diagnosis of a malignancy, the original date of diagnosis is considered to be the date of the initial slide or film review. In other words, the date of diagnosis is backdated.

Example: A patient has a total abdominal hysterectomy for endometriosis in January 2014. The patient is admitted with abdominal pain and distention in November 2015. A laparoscopy with omental biopsy shows metastatic cystadenocarcinoma. Pathologists review the 2014 hysterectomy specimen. They identify an area of cystadenocarcinoma in the left ovary. Date of diagnosis is January 2014 (01/__/2014).

- b. The date of the histology, cytology, or tissue exam should be used only if that is the first date the cancer was diagnosed or if the date of initial, clinical diagnosis is unknown and it is the earliest alternative confirmation.
- c. If the date of initial clinical diagnosis is unknown but the diagnosis has been confirmed microscopically or through radiologic or other exam, use the date of the histology, cytology, tissue, or radiologic exam, whichever is earlier. In some cases, this may be a date prior to admission.
- d. Use the date of first cancer-directed therapy as the date of diagnosis if the cancer-directed therapy was started prior to the definitive diagnosis of cancer.
- e. The date of death is the date of diagnosis for class of case code 38 (first diagnosed at autopsy) or 49 (death certificate only).
- f. Use the actual date of diagnosis for an *in utero* diagnosis, for cases diagnosed January 1, 2009 or later.
- g. For patients diagnosed prior to admission to your facility, record the date of diagnosis from the referring hospital, practitioner, or clinic, if known. If the date is unknown, record the best estimate as described in paragraph h. below.
- h. If you do not know the exact date of diagnosis, estimate the date based on available information. Recording an approximate date is preferable to recording an unknown date.

Every attempt should be made to enter the month and day, even if an estimate is necessary. If there is no basis for approximation, leave the month and day spaces blank.

If the year diagnosis cannot be identified, it must be approximated. In that instance, the month and day are unknown. Leave the month and day spaces blank.

- i. If information is limited to a description, use the following:

Descriptive Term Used	Date Code
Spring	April
The middle of the year	July
Fall	October
Winter	Try to determine if this means the beginning of the year (January) or the end of the year (December). Code as indicated.

- j. If the date of diagnosis cannot be determined at all, leave the date of diagnosis blank and record the reason in *Date of Diagnosis Flag*. See the *Date of Diagnosis Flag* section for examples illustrating the relationships among these items.

DATE OF DIAGNOSIS FLAG

Item Length: 2
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This flag explains why there is no appropriate value in the corresponding date field, *Date of Diagnosis* (NAACCR Item #390).

Rationale

Prior to version 12 (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields.

Codes

12 A valid date is applicable but not known. (The date of diagnosis is unknown.)
 Blank A valid date is coded in the *Date of Diagnosis* item (NAACCR Item #390).

Instructions

- Leave this item blank if *Date of Diagnosis* has a full or partial date recorded.
- Use code 12 if the *Date of Diagnosis* cannot be determined at all.
- Code this data item (when appropriate) even if your software uses the traditional format for date entry.

Examples:

Description	Date (Leave unknown portions blank.)	Date of Diagnosis Flag
Full date known	*01/08/2015 or 2015/01/08	Blank
Month & year known	*01/_ _/2015 or 2015/01/_ _	Blank
Year only known	*_ _/_ _/2015 or 2015/_ _/_ _	Blank
Unknown date	*_ _/_ _/_ _ _ _ or _ _ _ _/_ _/_ _	12

* For date entry, your software may use the traditional format (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format. The computer will store either in the interoperable format.

PRIMARY SITE

Item Length: 4
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This is a required 4-character field for recording the topography (anatomic site) code that best describes the primary site of malignancy. Metastatic lesions are NEVER coded in this field. Review the entire medical record before assigning this code.

Instructions

- a. Enter the topography (anatomic site) code from the Topography section of the *International Classification of Diseases for Oncology, Third Edition, 2000 (ICD-O-3)** that best describes the primary site of the tumor. The topography code should first be located in the Alphabetic Index (pages 105-218). Then the specific topography should be located in the Topography – Numerical List section (pages 45-65). The Alphabetic Index includes both topography and morphology terms.

***Note:** *ICD-O-3* is effective for cases diagnosed January 1, 2001 forward. Continue to use *ICD-O-2* for cases diagnosed prior to 2001.

- b. Record the primary site as specifically as possible. For example, if the final diagnosis is “cancer of the colon,” review other reports in the medical record (e.g., operative note, pathology report, radiology reports, and physician progress notes) to ascertain whether a more specific site within the colon can be identified.
- c. It is important that the primary site be coded, rather than a metastatic site. The primary site is the location where the cancer first developed, or the site of origin of a tumor. A metastatic site is the location to which the cancer has spread, or metastasized, from the primary site. Ask your physician advisor to identify the primary site or the most definitive site code if the medical record does not contain that information.
- d. Use the subcategory 8 (C_ _.8) for single tumors that overlap the boundaries of two or more sub-sites and the point of origin is unknown.

Example 1: Code overlapping lesion (C10.8) when a large tumor involves both the lateral wall of the oropharynx (C10.2) and the posterior wall of the oropharynx (C10.3) and the point of origin is not stated.

Example 2: Code overlapping lesion of the bladder (C67.8) when one lesion involves the dome (C67.1) and the lateral wall (C67.2) and the point of origin is not stated.

- e. Use the subcategory 9 (C_ _.9) for multiple tumors that originate in one organ.

Example 1: Code bladder, NOS (C67.9) when multiple lesions arise in both the trigone (C67.0) and lateral wall (C67.2).

Example 2: Code lung, NOS (C34.9) when there are lesions in both the right middle lobe (C34.2) and the right lower lobe (C34.3) of lung.

Example 3: Code breast, NOS (C50.9) when there are lesions in both the left lower-inner quadrant (C50.3) and the left lower-outer quadrant (C50.5) of a breast.

- f. If the specific site within an organ cannot be determined, code the primary site to the “NOS” (Not Otherwise Specified) category of the organ, organ system, or region. Refer to codes C76.0 to C76.8 (Other and Ill-Defined Sites) before coding C80.9 (Unknown primary site). If an unknown site is later specifically identified, the primary site code should be changed to the correct one.

Example: Your hospital clinically diagnoses a patient with carcinomatosis. The registry enters the case as an unknown primary (C80.9), carcinoma, NOS (8010/3), stage of disease unknown. Nine months later a paracentesis shows serous cystadenocarcinoma. The physician states that the patient has an ovarian primary. Change the primary site to ovary (C56.9), histology to serous cystadenocarcinoma (8441/3), and diagnostic confirmation to positive exfoliative cytology, no positive histology (2).

- g. Code leukemia, multiple myeloma, chronic myeloproliferative disorders, and myelodysplastic syndromes to bone marrow (C42.1), because blood cells originate in the bone marrow.

Exception: Code myeloid sarcoma (9930/3) to the site of origin. (See ICD-O-3 page 26 for coding rules.)

- h. Lymphomas

For lymphoma diagnosed 2010 and later use the Hematopoietic and Lymphoid Neoplasm Case Reportability and Coding Manual and the Hematopoietic Database. Use the rules cited below **only** for lymphoma diagnosed before 2010.

- (1) Code lymphomas arising in lymphatic tissue or nodes to the site of origin. The lymphatic sites are lymph nodes(s) C77.~, tonsil C09.~, spleen C42.2, Waldeyer ring C14.2, and thymus C37.9.
- (2) Code extralymphatic lymphomas (lymphatic cells in non-lymphatic organs such as intestine or stomach) to the organ of origin (intestine C26.0, stomach C16.0-C16.9).
- (3) Code to lymph nodes, NOS (C77.9) when:
 - The site of origin is not identified for a lymphoma.
 - A patient has diffuse lymphoma and a primary site is unknown or not specified.
 - A lymphoma mass is identified as “retroperitoneal,” “inguinal,” “mediastinal,” or “mesentery,” and no specific information is available to indicate what tissue is involved.
 - Bone marrow metastases are present and the primary site of a lymphoma is unknown or not specified.
- (4) Code to lymph nodes, multiple regions (C77.8) when multiple lymph node chains are involved with disease. Do not code a specific lymph node chain from multiple lymph node chains, even if the specific chain was biopsied.
- (5) Code mycosis fungoides and cutaneous lymphomas to skin (C44.~).
- (6) Carefully identify the origin of the tumor. Do not code the biopsy site or a metastatic site as the primary site. Lymphoma may be present in both an extralymphatic (extranodal) organ and one or more lymph node chain. Code the primary site as the extranodal organ or the lymph nodes, as directed by the managing physician or physician advisor.

Note: For purposes of analysis:

- Analyze the lymphatic sites C77.~, C09.~, C42.2, C14.2, and C37.9 together.
 - Analyze extralymphatic lymphomas separately.
- i. Code Kaposi sarcoma to the site in which it arises. Code to skin (C44.9) if Kaposi sarcoma arises simultaneously in the skin and another site, and the primary site is not identified. Kaposi sarcoma is reported only once.
- j. Code to skin, NOS (C44.9) if a patient is diagnosed with metastatic melanoma and the primary site is not identified. Each occurrence of melanoma of the skin is a new/separate primary unless a physician says otherwise.

- k. If any of the following histologies appears with only an ill-defined site description (e.g., “abdominal” or “arm”), code it to the tissue in which such tumors arise rather than the ill-defined region (C76._) of the body, which contains multiple tissues.

Histology	ICD-O-3 Codes	Code to This Site
Melanoma	8720-8790	C44._ Skin
Sarcoma except periosteal fibrosarcoma and dermatofibrosarcoma	8800-8811, 8813-8830, 8840-8921, 9040-9044	C49._ Connective, Subcutaneous, and Other Soft Tissues
Mesenchymoma	8990-8991	C49._ Connective, Subcutaneous, and Other Soft Tissues
Blood vessel tumors, lymphatic vessel tumors	9120-9170	C49._ Connective, Subcutaneous, and Other Soft Tissues
Granular cell tumor and alveolar soft part sarcoma	9580-9582	C49._ Connective, Subcutaneous, and Other Soft Tissues
Mesenchymal chondrosarcoma and giant cell tumors	9240-9252	C40._, C41._ for Bone and Cartilage C49._ Connective, Subcutaneous, and Other Soft Tissues
Mixed tumor, salivary gland type	8940-8941	C07._ for Parotid Gland C08._ for Other and Unspecified Major Salivary Glands

- l. Rule H on page 21 of *ICD-O-3* discusses the topic of “Site-Specific Morphology Terms.”
- (1) If the patient record identifies a morphology term for which *ICD-O-3* lists a specific topography code in parentheses, use this code if no definite site is identified or if only a metastatic site is identified.
- Example:* If the diagnosis hepatoma (8170/3) with no other statement about topography, code primary site as C22.0 (liver), since this morphology is always indicative of a primary malignancy in the liver.
- (2) Some morphology codes list a specific topography code (C_ . . _) to designate the usual primary site of origin for a particular neoplasm. If the actual primary site is different from the topography code listed, use the appropriate topography code of the actual site of origin and ignore the topography code listed next to the morphology code.
- Example:* If a patient has an infiltrating duct carcinoma of the pancreas (8500/3), code the primary as C25.9 (pancreas), even though “infiltrating duct carcinoma” has C50._ (breast) after it in the Alphabetic Index and the Morphology Numerical section of *ICD-O-3*, since breast is the usual site in which this histology arises.
- m. For further guidelines on coding primary site, refer to the Introduction in *ICD-O-3* on pages 20-21. When the record is not clear, the physician should be contacted to determine the most definitive code to be used.

Rules for Determining Single vs. Multiple Sites

For all solid malignant tumors diagnosed January 1, 2007 or later, use the SEER Multiple Primary and Histology Coding Rules. Use the rules cited below **only** for cases diagnosed before 2007.

- a. A difference in the third character of the *ICD-O-3* topography code designates a separate site, with the exceptions listed under paragraph b. below.
- Example:* Separate sites and separate primaries:
Lower gum (C03.1)
Anterior floor of the mouth (C04.0)

- b. The following table shows *ICD-O-3* site groupings that are to be regarded as one primary site when determining multiple primaries. These sites used to be in the same 3-digit site code group in *ICD-O-1*, but have been put into different 3-digit site groups in *ICD-O-2* and *ICD-O-3*. The groups are considered to be the same primary site in order to make valid historical comparisons between data collected under *ICD-O-1* and data collected under *ICD-O-2* and *ICD-O-3*.

ICD-O-3 CODES	SITE GROUPINGS
C01 C02	Base of tongue Other and unspecified parts of tongue
C05 C06	Palate Other and unspecified parts of mouth
C07 C08	Parotid gland Other and unspecified major salivary glands
C09 C10	Tonsil Oropharynx
C12 C13	Pyriiform sinus Hypopharynx
C23 C24	Gallbladder Other and unspecified parts of biliary tract
C30 C31	Nasal cavity and middle ear Accessory sinuses
C33 C34	Trachea Bronchus and lung
C37 C38.0 C38.1-C38.3 C38.8	Thymus Heart Mediastinum Overlapping lesion of heart, mediastinum, and pleura
C51 C52 C57.7 C57.8-C57.9	Vulva Vagina Other specified female genital organs Unspecified female genital organs
C56 C57.0 C57.1 C57.2 C57.3 C57.4	Ovary Fallopian tube Broad ligament Round ligament Parametrium Uterine adnexa
C60 C63	Penis Other and unspecified male genital organs
C64 C65 C66 C68	Kidney Renal pelvis Ureter Other and unspecified urinary organs
C74 C75	Adrenal gland Other endocrine glands and related structures

Example 1: A patient is diagnosed at Hospital A with a malignant tumor of the lateral wall of the oropharynx (C10.2). The patient is then referred to Hospital B, where further assessment reveals the tumor site of origin to be the tonsillar pillar (C09.1). When both of these cases are received at the State Registry, they will be consolidated into one cancer case, with tonsil (C09.1) being listed as the primary site.

Example 2: A patient is diagnosed at Hospital A with a malignant tumor of the labia majora (C51.0). The patient is then referred to Hospital B, which reports the primary site as vagina (C52.9). To determine the primary site, review the pathology reports and consult with the attending physicians, surgeon, or registry advisor to identify the origin of the tumor. If there is a single lesion involving both sites and a site of origin cannot be determined, code to overlapping lesion of female genital organs (C57.8). If the tumor involves separate lesions and the site of origin cannot be determined, code to female genital tract, NOS (C57.9). These codes are for neoplasms of female genital organs whose point of origin cannot be assigned to any one of the categories C51 through C57.7, C58.

- c. A single lesion (tumor) is one primary even if the lesion crosses site boundaries.

Example: A patient has a large maxillary sinus tumor that extends into the sphenoid sinus. This is one primary: Maxillary sinus (C31.0).

- d. Sites may be anatomically separate and independent but are assigned to the same *ICD-O-3* topography code. These should be considered sub-sites of the same organ and recorded as a single site.

Example: Ulna (C40.0) and radius (C40.0) are treated as one site and one primary.

- e. A difference in the fourth character of the *ICD-O-3* topography code designates a sub-site of the same organ and is considered one site, with the exceptions listed below.

Example 1: Soft palate (C05.1) and uvula (C05.2) are treated as one site and one primary, either overlapping lesion of sub-sites of palate (C05.8) or palate, NOS (C05.9).

Example 2: Trigone of the bladder (C67.0) and lateral wall of the bladder (C67.2) are treated as one site and one primary, either overlapping lesion of sub-sites of the bladder (C67.8) or bladder, NOS (C67.9).

Exception: A difference in the fourth character of the *ICD-O-3* topography code designates a separate site only for the following site groups:

- | | |
|-------------------------------------------------------------------------------------------|---------------------------------------|
| • Colon (see exception for polyps below) | C18.0 – C18.9 |
| • Anus/anal canal | C21.0 – C21.8 |
| • Pleura (visceral, parietal, NOS) | C38.4 |
| • Bone | C40.0 – C41.9 |
| • Melanoma of the skin | C44.0 – C44.9 |
| • Peripheral nerves/autonomic nervous system | C47.0 – C47.9 |
| • Connective Tissue | C49.0 – C49.9 |
| • Non-malignant meninges | C70.0 – C70.9, Behavior Code /0 or /1 |
| • Non-malignant brain | C71.0 – C71.8, Behavior Code /0 or /1 |
| • Non-malignant spinal cord, cranial nerves,
and other parts of central nervous system | C72.0 – C72.8, Behavior Code /0 or /1 |

Example: Separate sites and separate primaries:
Sigmoid colon (C18.7)
Transverse colon (C18.4)

Note: A non-specific site code, such as C18.9 (colon, NOS), and a specific site code, such as C18.2 (ascending colon), generally would not be recorded as separate sites for a single patient.

Exception: Colon Polyps

- (1) Simultaneous lesions of adenocarcinoma or carcinoma and polyps (adenoma or adenomatous polyp) in one segment of the colon are a single primary.

Example 1: A physician detects two lesions in the same segment of the colon. The pathology identifies the lesions as an adenocarcinoma (8140/3) and an adenocarcinoma in a(n) (adenomatous) polyp (8210/3). Code the histology to adenocarcinoma (8140/3). Adenocarcinoma in an adenomatous polyp (8210/3) is an earlier stage of disease than a frank adenocarcinoma.

Example 2: Both an adenocarcinoma (8140/3) and an adenocarcinoma (in situ or invasive) in a(n) adenomatous polyp (8210) or an adenocarcinoma (in situ or invasive) in a (tubulo)villous adenoma (8261, 8263) arise simultaneously in the same segment of the colon or the rectum. Code as adenocarcinoma (8140/3).

Example 3: Both a carcinoma (8010/3) and a carcinoma (in situ or invasive) in a(n) (adenomatous) polyp (8210) arise in the same segment of the colon within two months of diagnosis. Code as carcinoma (8010/3).

- (2) Polyps may be present in more than one segment of the colon. If the diagnosis reads “adenocarcinoma in multiple polyps,” it is one primary, colon, NOS (C18.9).

Familial polyposis is a genetic disease characterized by polyps that increase in numbers and may cover the mucosal surface of the colon. The benign disease usually develops into adenocarcinoma in adenomatous polyposis coli or adenocarcinoma in multiple adenomatous polyps.

Patients with the histologies “adenocarcinoma in adenomatous polyposis coli” (8220/3) and “adenocarcinoma in multiple adenomatous polyps” (8221/3) have a different disease process than those patients with frank adenocarcinomas of the colon or typical colon polyps. If multiple segments of the colon, or the colon and rectosigmoid, or the colon, rectosigmoid and rectum are involved with adenocarcinoma in adenomatous polyposis coli or adenocarcinoma in multiple adenomatous polyps, it is a single primary. Code the primary site to colon, NOS (C18.9).

f. Paired Organ Sites

Each side of a paired organ is considered a separate site unless a physician determines one side is metastatic from the other.

Exception 1: The following are always single primaries:

- Simultaneous bilateral involvement of the ovaries with a single histology
- Simultaneous bilateral retinoblastomas
- Simultaneous bilateral Wilms tumors

(Diagnoses that occur at the same time or within two months of each other are considered simultaneous or synchronous.)

Exception 2: Disregard laterality for determination of single or multiple primaries for malignant (behavior or /2 or /3) tumors of the meninges (C70._); brain (C71._); and spinal cord, cranial nerves, and other parts of central nervous system (C72._).

Coding Tip: The Primary Site code must be between 000 and 809.

LATERALITY

Item Length: 1
Data Type: Numeric
ACoS: Required
State Registry: Required

Description

This is a required 1-character field for recording a code that identifies the side of a paired organ or the side of the body on which the tumor originated. Laterality refers to the primary site only and should be coded independently for each primary. Metastatic involvement is not coded.

Codes

- 0 Not a paired organ or site; not applicable; unknown primary site
- 1 Right side is origin of primary
- 2 Left side is origin of primary
- 3 Only one side is involved; right or left origin unspecified
- 4 Bilateral involvement, side of origin unknown; stated to be a single primary.
Includes: Both ovaries involved simultaneously with a single histology
Bilateral retinoblastomas
Bilateral Wilms tumors
- 5 Paired site: midline tumor
- 9 Paired site, but no information on laterality

Instructions

- a. If only one histologic type is reported and if both sides of a paired site are involved within two months of diagnosis, determine whether the patient had one or two independent primaries. Refer to the [SEER Multiple Primary and Histology Coding Rules](#).
 - (1) If there are two primaries, prepare two abstracts, recording the appropriate laterality and extent of disease for each.
 - (2) If there is only one primary (originated on one side and metastasized to the other), prepare a single abstract and code laterality according to the side where the primary originated. If it is not possible to determine the side where the primary originated, record laterality code 4 (bilateral involvement, lateral origin unknown).
- b. Record laterality for unknown primary site (C80.9) as 0 (not a paired organ or site).
- c. The following list identifies the paired organs or paired sites. For all sites that are not on the list, record laterality code 0 (not a paired organ; not applicable). The *FORDS* laterality rules permit coding non-paired sites as right or left but the State Registry does not support this.

Use laterality code 1 – 9 only for the following sites, except as noted. The listing includes only major categories. Code laterality for all subheadings included in *ICD-O-3* under these headings, unless specifically excluded. Exclusions should be coded as “0.”

ICD-O-3 Primary

<u>Site Code</u>	<u>Paired Organ or Site</u>
C07.9	Parotid gland
C08.0	Submandibular gland (submaxillary gland)
C08.1	Sublingual gland
C09.0	Tonsillar fossa
C09.1	Tonsillar pillar
C09.8	Overlapping lesion of tonsil
C09.9	Tonsil, NOS
C30.0	Nasal cavity (excluding nasal cartilage and nasal septum – use code 0)
C30.1	Middle ear (Eustachian tube)
C31.0	Maxillary sinus
C31.2	Frontal sinus
C34.0	Main bronchus (excluding carina – use code 0)
C34.1-C34.9	Lung
	Note: C34.2 Middle lobe is on right side only – laterality code 1
C38.4	Pleura, NOS
C40.0	Long bones of upper limb, scapula, and associated joints (bones of arm)
C40.1	Short bones of upper limb and associated joints (bones of hand)
C40.2	Long bones of lower limb and associated joints (bones of leg)
C40.3	Short bones of lower limb and associated joints (bones of foot)
C41.3	Rib and clavicle (excluding sternum – use code 0)
C41.4	Pelvic bones and associated joints (excluding sacrum, coccyx, and symphysis pubis – use code 0)
C44.1	Skin of eyelid
C44.2	Skin of external ear
C44.3	Skin of other and unspecified parts of face (if site is non-paired or on midline, such as chin, record laterality code 9)
C44.5	Skin of trunk (if site is non-paired or on midline, record laterality code 9)
C44.6	Skin of upper limb and shoulder
C44.7	Skin of lower limb and hip
C47.1	Peripheral nerves and autonomic nervous system of upper limb and shoulder
C47.2	Peripheral nerves and autonomic nervous system of lower limb and hip
C49.1	Connective, subcutaneous, and other soft tissues of upper limb and shoulder
C49.2	Connective, subcutaneous, and other soft tissues of lower limb and hip
C50.0-C50.9	Breast
C56.9	Ovary
C57.0	Fallopian tube
C62.0-C62.9	Testis
C63.0	Epididymis
C63.1	Spermatic cord (vas deferens)
C64.9	Kidney, NOS
C65.9	Renal pelvis
C66.9	Ureter
C69.0-C69.9	Eye and adnexa (including lacrimal gland)
C74.0-C74.9	Adrenal gland (suprarenal gland)
C75.4	Carotid body

For malignant and benign/borderline tumors diagnosed January 1, 2004 or later, the following central nervous system sites require a laterality code of 1-4 or 9:

C70.0	Cerebral meninges, NOS
C71.0	Cerebrum
C71.1	Frontal lobe
C71.2	Temporal lobe
C71.3	Parietal lobe
C71.4	Occipital lobe
C72.2	Olfactory nerve

C72.3	Optic nerve
C72.4	Acoustic nerve
C72.5	Cranial nerve, NOS

- d. The primary site codes listed below include both paired and a non-paired sub-sites.

Code	Paired Sub-Sites (Use laterality code 1, 2, 3, 4, or 9)	Non-Paired Sub-Sites (Use laterality code 0 or 9 as indicated below.)
C30.0	nasal cavity	nasal cartilage, nasal septum (0)
C34.0	main bronchus	carina (0)
C41.3	rib, clavicle	sternum (0)
C41.4	pelvic bones	sacrum, coccyx, symphysis pubis (0)
C44.3	skin of cheek, temple, eyebrow	skin of chin, face, nose, forehead (9)
C44.5	skin of abdomen, axilla, back, breast, buttock, chest	skin of anus (9)

Example: When coding for the main bronchus (C34.0), if bronchus (a paired organ) is the primary site, enter code 1, 2, 3, 4, or 9. Use code 0 if the carina (a non-paired organ) is the primary site.

- e. Text Documentation

Include laterality for applicable sites when recording the description of the primary site in the text area of the abstract. Staff at the State Cancer Registry will then know whether to override (bypass) an edit that identifies an inconsistency between site and laterality codes.

DIAGNOSTIC CONFIRMATION

Item Length: 1
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This is a required 1-character field for recording the best method of diagnostic confirmation of the cancer being reported at any time in the patient's history. It indicates whether at any time during the patient's disease course there was microscopic confirmation of the morphology of this cancer.

Rationale

This item is an indicator of the precision of diagnosis. The percentage of solid tumors that are clinically diagnosed only is an indication of whether casefinding procedures include sources outside of pathology reports. Complete casefinding must include both clinically and pathologically confirmed cases.

Codes and Definitions for Solid Tumors (all tumors except M9590-9992)

1	Positive histology	Histologic confirmation (tissue microscopically examined).
2	Positive cytology	Cytologic confirmation (no tissue microscopically examined; fluid cells microscopically examined).
4	Positive microscopic confirmation, method not specified	Microscopic confirmation is all that is known. It is unknown if the cells were from histology or cytology.
5	Positive laboratory test/marker study	A clinical diagnosis of cancer is based on laboratory tests/marker studies that are clinically diagnostic for cancer. Examples include alpha-fetoprotein for liver cancer. Elevated PSA is not diagnostic of cancer. If the physician uses the PSA as a basis for diagnosing prostate cancer with no other work-up, record as code 5.
6	Direct visualization without microscopic confirmation	The tumor was visualized during a surgical or endoscopic procedure only with no tissue resected for microscopic examination.
7	Radiography and other imaging techniques without microscopic confirmation	The malignancy was reported by the physician from an imaging technique report only. Diagnosed by radiology, including ultrasound, computed (axial) tomography (CT or CAT scans), and magnetic resonance imaging (MRI).
8	Clinical diagnosis only (other than 5, 6, or 7)	The malignancy was reported by the physician in the medical record. Refer to ambiguous terminology in Chapter 4.
9	Unknown whether or not microscopically confirmed	A statement of malignancy was reported in the medical record, but there is no statement of how the cancer was diagnosed (usually nonanalytic).

Instructions for Coding Solid Tumors (all tumors except M9590-9992)

- a. The codes are in priority order, with code 1 having the highest priority. Always code the diagnostic method with the lower numeric value when the diagnosis of cancer is confirmed with multiple methods. Change this data item to the lower (higher priority) code if a more definitive method confirms the diagnosis at any time during the course of the disease.

Example: A chest x-ray dated 02/01/2015 diagnoses a probable lung cancer. The patient refuses a diagnostic work-up. The registry codes the diagnostic confirmation to radiography (code 7). The patient allows a lymph node biopsy on 04/12/2015. The biopsy confirms small cell carcinoma. Change the diagnostic confirmation code to positive histology (code 1).

- b. Assign code 1 when the microscopic diagnosis is based on tissue specimens from biopsy, frozen section, surgery, autopsy, dilatation and curettage (D & C), bone marrow biopsy or bone marrow aspiration (bone marrow FNA).
- c. Assign code 2 when the microscopic diagnosis is based on cytologic examination of cells. The cells may be recovered from exudate, scrapings, secretions, or washings from tissue: sputum smears, bronchial brushings, bronchial washings, tracheal washings, prostatic secretions, breast secretions, gastric fluid, spinal fluid, peritoneal fluid, pleural fluid, urinary sediment, cervical and vaginal smears, or from paraffin-block specimens from concentrated spinal, pleural, or peritoneal fluid.
- d. Assign code 4 when the case is reported as microscopically confirmed, but no information is provided about the method (histology, cytology). This may include cases where the medical record or physician states the histology type, but there is no path report in the record.
- e. Assign code 8 when the case was diagnosed by any clinical method not mentioned in preceding codes. A number of hematopoietic and lymphoid neoplasms are diagnosed by tests of exclusion where the tests for the disease are equivocal and the physician makes a clinical diagnosis based on the information from the equivocal tests and the patient's clinical presentation.
- f. If diagnosis was confirmed at another hospital, enter the code for how the other hospital confirmed the diagnosis, if known, unless further confirmation with a lower code occurred at your facility. (e.g., if the other hospital performed a mammogram and your hospital performed a biopsy, code the biopsy.) If unknown, enter code 9.
- g. Some cytology specimens contain tissue. Some pathology/tissue specimens contain only cells or fluid aspiration. Read the report carefully to determine if the pathologist examined cells or tissue and code accordingly.

Codes and Definitions for Hematopoietic and Lymphoid Neoplasms (M9590-9992)

1	Positive histology	Histologic confirmation (tissue microscopically examined).
2	Positive cytology	Cytologic confirmation (no tissue microscopically examined; fluid cells microscopically examined).
3	Positive histology plus <ul style="list-style-type: none"> ▪ Positive immunophenotyping and/or ▪ Positive genetic studies 	Histology is positive for cancer, and there are also positive immunophenotyping and/or genetic test results. For example, bone marrow examination is positive for acute myeloid leukemia (9861/3). Genetic testing shows AML with inv(16)(p13.1q22) (9871/3).
4	Positive microscopic confirmation, method not specified	Microscopic confirmation is all that is known. It is unknown if the cells were from histology or cytology.
5	Positive laboratory test/marker study	A clinical diagnosis of cancer is based on laboratory tests/marker studies that are clinically diagnostic for cancer.
6	Direct visualization without microscopic confirmation	The tumor was visualized during a surgical or endoscopic procedure only with no tissue resected for microscopic examination.
7	Radiography and other imaging techniques without microscopic confirmation	The malignancy was reported by the physician from an imaging technique report only.
8	Clinical diagnosis only (other than 5, 6, or 7)	The malignancy was reported by the physician in the medical record. Refer to ambiguous terminology in Chapter 4.
9	Unknown whether or not microscopically confirmed	A statement of malignancy was reported in the medical record, but there is no statement of how the cancer was diagnosed (usually nonanalytic).

Instructions for Coding Hematopoietic and Lymphoid Tumors (M9590-9992)

- a. There is no priority hierarchy for coding *Diagnostic Confirmation* for hematopoietic and lymphoid tumors. Most commonly, the specific histologic type is diagnosed by immunophenotyping or genetic testing. See the *Hematopoietic Database (DB)* for information on the definitive diagnostic confirmation for specific types of tumors.
- b. Assign code 1 when the microscopic diagnosis is based on tissue specimens from biopsy, frozen section, surgery, autopsy or bone marrow specimens from aspiration or biopsy.
- c. For leukemia only, assign code 1 when the diagnosis is based only on the complete blood count (CBC), white blood count (WBC) or peripheral blood smear. Do not use code 1 if the diagnosis was based on immunophenotyping or genetic testing using tissue, bone marrow, or blood.
- d. Assign code 2 when the microscopic diagnosis is based on cytologic examination of cells (rather than tissue) including but not limited to spinal fluid, peritoneal fluid, pleural fluid, urinary sediment, cervical or vaginal smears, or from paraffin block specimens from concentrated spinal, pleural, or peritoneal fluid. These methods are rarely used for hematopoietic or lymphoid tumors.
- e. Assign code 3 when there are a histology positive for cancer **and** positive immunophenotyping and/or positive genetic testing results. Do not use code 3 for neoplasms diagnosed prior to January 1, 2010
- f. Assign code 5 when the diagnosis of cancer is based on laboratory tests or marker studies that are clinically diagnostic for that specific cancer, but no positive histologic confirmation.
- g. Assign code 6 when the diagnosis is based only on the surgeon's report from a surgical exploration or endoscopy or from gross autopsy findings without tissue or cytological findings.
- h. Assign code 8 when the case was diagnosed by any clinical method not mentioned in preceding codes. A number of hematopoietic and lymphoid neoplasms are diagnosed by tests of exclusion where the tests for the disease are equivocal and the physician makes a clinical diagnosis based on the information from the equivocal tests and the patient's clinical presentation.

HISTOLOGY

Item Length: 4
Data Type: Numeric
ACoS: Required
State Registry: Required

Description

This is a required 4-character field for recording histologic (cell) type.

Instructions

- **For all solid malignant tumors diagnosed January 1, 2007 or later, use the SEER Multiple Primary and Histology Coding Rules.**
 - **For lymphoma diagnosed 2010 and later use the Hematopoietic and Lymphoid Neoplasm Case Reportability and Coding Manual and the Hematopoietic Database.**
- a. Enter the five-digit code from the Morphology Section of the *International Classification of Diseases for Oncology, Third Edition, 2000 (ICD-O-3)** that best describes the histologic (cell) type and behavior of this primary. First locate the morphology code in the Alphabetic Index (pages 105 – 218). Then locate the specific morphology code in the Morphology of Neoplasms – Numerical List section (pages 69 – 104). Follow the coding rules outlined in *ICD-O-3* on pages 20 – 40.

***Note:** *ICD-O-3* is effective for cases diagnosed January 1, 2001 forward. Continue to use *ICD-O-2* for cases diagnosed prior to 2001.

- b. In the Alphabetic Index, all morphology codes are identified by an M- preceding the code number. Do not record the M on the abstract. Do not record the virgule (/ - slash) on the abstract. All morphology codes begin with an 8 or 9.

Example: Infiltrating duct carcinoma is code M-8500/3. Record code 85003 on the abstract (paper or computer).

Note: Subsequent references to morphology codes will be stated without the preceding M- in the code.

- c. Review all pathology reports that describe the primary site before coding histology and behavior. Read each pathology report in its entirety. Although reports from the definitive cancer-directed surgery is usually the best, sometimes all of the positive tissue is removed at biopsy.

Example: The pathology report from a skin biopsy states malignant melanoma, NOS. At wide excision, no residual tumor was found. Code the histology from the biopsy report as malignant melanoma, NOS (8720/3).

- d. If no tissue or cytology specimen was obtained for a diagnosis of malignancy, but a recognized medical practitioner makes a clinical diagnosis of cancer, malignancy, malignant tumor, or malignant neoplasm, code to 8000/3 (Neoplasm, malignant). If the physician is more specific, use the more specific morphology code.

The codes for cancer, NOS (8000/3) and carcinoma, NOS (8010/3) are not interchangeable. If the physician says that the patient has carcinoma, code carcinoma, NOS (8010/3).

- e. Code the final pathologic diagnosis.

Exception: At times, the final diagnosis is “Not Otherwise Specified” (NOS), e.g., carcinoma, NOS; melanoma, NOS; sarcoma, NOS; lymphoma, NOS; or malignant tumor, NOS. Code the histology from the microscopic description or comment if it describes a more specific histology (higher *ICD-O-3* code) such as adenocarcinoma, amelanotic melanoma, spindle cell sarcoma, etc. Record the best information found.

Example: The final pathologic diagnosis is carcinoma (8010/3) of the prostate. The microscopic diagnosis states adenocarcinoma (8140/3) of the prostate, grade III. The more specific diagnosis, adenocarcinoma of the prostate, grade III (8140/33), should be coded.

- f. Lymphomas may be classified by the Rappaport classification or the Working Formulation. If both systems are used to classify the disease, the term used to describe the lymphoma may differ, and the Working Formulation term should take precedence (*ICD-O-3*, pp. 13-18).

Example: In the Pathology report, the Working Formulation describes malignant lymphoma, large cell, immunoblastic (9684/3). The Rappaport classification describes malignant lymphoma, diffuse, histiocytic (9680/3). Use code 9684/3.

Histology Coding Rules

- For all solid malignant tumors diagnosed January 1, 2007 or later, use the **SEER Multiple Primary and Histology Coding Rules**.
- For lymphoma diagnosed 2010 and later use the **Hematopoietic and Lymphoid Neoplasm Case Reportability and Coding Manual** and the Hematopoietic Database.

- a. When multiple terms describe a single histology, record the numerically highest code.

Example: In the diagnosis “transitional cell epidermoid carcinoma,” transitional cell (8120/3) and epidermoid (8070/3) are both adjectives describing carcinoma. Record transitional cell (8120/3).

Note: If the diagnosis states “transitional cell and epidermoid carcinoma,” “transitional cell with areas of epidermoid carcinoma,” or “transitional cell with a focus of epidermoid carcinoma,” the diagnosis would be interpreted as one of mixed or multiple histologies.

- b. The *ICD-O-3* morphology code has five digits (e.g., 8500/3).

- (1) When the first three digits of the *ICD-O-3* morphology codes are identical, the lesions are the same histology. Record the numerically higher code, as it is usually a more specific histology.

Example: A stomach biopsy is interpreted as adenocarcinoma, NOS (8140/3). The pathology from the resection identifies the tumor as linitis plastica (8142/3). Record the morphology code for linitis plastica (8142/3). (Refer to Rule K in the Introduction of *ICD-O-3* on page 21 for more information.)

- (2) When the first three digits of the *ICD-O-3* morphology code are different, the histologies are not the same. These lesion(s) have a mixed or multiple histology. Code using the rules under paragraph d. below, “Coding Mixed or Multiple Histologies.”

Exception 1: Lymphatic and hematopoietic disease. Use the guidelines in Appendix E-2 (Prepared by: SEER Program, NCI, 02/28/2001) to determine which histologies represent single or multiple primaries.

Exception 2: If one malignancy is stated to be carcinoma, NOS; adenocarcinoma, NOS; sarcoma, NOS; or melanoma, NOS and the second lesion is a more specific term, such as large cell carcinoma, mucinous adenocarcinoma, spindle cell sarcoma, or superficial spreading melanoma, consider this to be a single histology.

Note: This rule applies when a nonspecific morphology and a specific morphology exist in a single lesion. Code as a single primary with the more specific morphology.

Exception 3: Code the following as single primaries with a single histology, even though the first three digits of the *ICD-O-3* morphology codes differ:

- Bladder lesions with morphology codes 8120-8130 (transitional cell and papillary transitional cell carcinomas) should be coded 8130/3, the combination code;
- Thyroid lesions with morphology codes 8260/3 (papillary carcinoma) and 8330/3 (follicular carcinoma) should be coded 8340/3, the combination code;
- Within each breast, lesions with morphology codes 8500/3 (ductal carcinoma) and 8520/3 (lobular carcinoma). Code such breast lesions to the combination code 8522/3. Use the combination code even if one of the lesions is in situ and the other invasive.

Exception 4: Use the following for the determination of single or multiple primaries of non-malignant (behavior /0 or /1) primary intracranial and central nervous system tumors (C70.0-C72.9, C75.1-C75.3).

- Two histologies appearing in the same grouping in the following table are the **same**. Code the more specific histology.
- A histology in the table and a histology not in the table that have the same first three digits are the **same**. Code its histology according to the rules for mixed histologies.
- Two histologies not appearing in the table but having the same first three digits are the **same**. Code its histology according to the rules for mixed histologies.

Choroid plexus neoplasms	9390/0, 9390/1
Ependymomas	9383, 9394, 9444
Neuronal and neuronal-gliial neoplasms	9384, 9412, 9413, 9442, 9505/1, 9506
Neurofibromas	9540/0, 9540/1, 9541, 9550, 9560/0
Neurinomatosis	9560/1
Neurothekeoma	9562
Neuroma	9570
Perineurioma, NOS	9571/0

- (3) The fifth digit of the *ICD-O-3* morphology code is the behavior code. The behavior code is not used to determine multiple histologies. Lesion(s) may have a single histology with invasive and in situ components. This is a single histology. Code the behavior of the invasive component. If a single lesion has multiple histologies, one invasive and one in situ, code the invasive histology, even if the histology code for the in situ component is higher.

Note: This rule is also used for multiple lesions with the same histology. One lesion may be invasive and another lesion in situ, or each of the lesions may have invasive and in situ components.

Example 1: Pathology of a breast mass shows infiltrating ductal carcinoma (8500/3) with a large intraductal component (8500/2). This is a single histology. Code the histology as infiltrating ductal (8500) and the malignant behavior (/3).

Example 2: A patient has a colectomy and the pathology identifies two lesions in the sigmoid colon. The first lesion is an invasive adenocarcinoma (8140/3) and the second lesion is an adenocarcinoma in situ (8140/2). This is a single histology. Code the histology and behavior as adenocarcinoma, NOS (8140/3).

Exception: Two primary intracranial and central nervous system tumors (C70.0-C72.9, C75.1-C75.3) in which one is malignant (behavior of /2 or /3) and one is non-malignant (behavior of /0 or /1) are always separate primaries, regardless of timing.

- c. Cancers are considered simultaneous if diagnosed within two months of each other.

d. Coding Mixed or Multiple Histologies

A single lesion with mixed or multiple histologic types is one primary. To code mixed or multiple histologies with the same behavior existing in one primary, use the following guidelines in this priority order:

(1) Select a combination code

Example 1: The pathology report of a breast cancer describes mixed ductal (8500/3) and lobular carcinoma (8520/3). Record the combination code “ductal carcinoma and lobular carcinoma” (8522/3).

Example 2: The pathology report of a carcinoma of the cervix describes mixed adenocarcinoma and squamous cell carcinoma. Record the combination code “adenosquamous carcinoma” (8560/3).

(2) Code the histology that comprises the majority of the tumor. Phrases such as “predominantly” and “with features of” are often used to identify the principal histology.

Example: A lung lesion is predominantly squamous cell carcinoma (8070/3) with focal areas of bronchiolo-alveolar adenocarcinoma (8250/3). A combination code does not exist. Record the predominant histology, squamous cell carcinoma (8070/3).

Note: The terms “with foci of,” “areas of,” or “elements of” describe minor areas of involvement. Do not code the histologies described by these terms unless there is a combination code.

(3) Code the histology with the highest ICD-O-3 morphology code.

Example: A patient with bladder cancer is diagnosed with mixed transitional cell carcinoma (8120/3) and epidermoid carcinoma (8070/3). There is no combination code for these histologies, and the pathology report does not identify a predominant histology. Record the highest morphology code, transitional cell carcinoma (8120/3).

e. Determining Multiple Primaries

- **For all solid malignant tumors diagnosed January 1, 2007 or later, use the SEER Multiple Primary and Histology Coding Rules.**
- **For lymphoma diagnosed 2010 and later use the Hematopoietic and Lymphoid Neoplasm Case Reportability and Coding Manual and the Hematopoietic Database.**

Enter the case into the database as a single or multiple primary as documented by the physician. If physician determination is absent or unavailable, use the following guidelines, which are based on the *International Classification of Diseases for Oncology (ICD-O-3)*.

- (1) Determine whether there is a single lesion or multiple lesions.
- (2) Decide whether the tumor(s) involve a single site or multiple sites. Use the rules documented in the section for *Primary Site* in this chapter.
- (3) Decide whether the tumor(s) are a single histology or mixed/multiple histologies. Follow the “Histology Coding Rules” described above in this section.

- (4) Use the following table to decide whether the case should be abstracted as a single primary or multiple primaries. (Use only for cases diagnosed prior to 01/01/2007.)

LESIONS	SITE(S)	HISTOLOGY	VARIABLES	PRIMARY
Single	Single	Single		Single
	Single	Mixed/multiple		Single
Single or multiple	Single	Single	Different behavior codes, in situ (2) and invasive (3)	Single
	Same as previous site	Same as previous histology	Within two months of diagnosis	Recurrence of the original primary
	Same as previous site	Same as previous histology	More than two months after diagnosis	New primary unless physician states it is recurrent or metastatic. Exceptions: Basal, squamous, basosquamous cell carcinoma of the skin; bladder; Kaposi sarcoma; adenocarcinoma of prostate; non-malignant intracranial & CNS tumors.
Multiple	Single	Single	Simultaneous	Single
	Multiple	Single	Simultaneous	Multiple unless physician states it is metastatic. Exceptions: Ovaries (simultaneous bilateral), retinoblastoma, and Wilms tumor are single primaries.
	Single	Mixed/multiple	Simultaneous	Single
	Single	Multiple (Each tumor has a different histology.)	Simultaneous	Multiple Exceptions: Breast (lobular and ductal); bladder (transitional and papillary); thyroid (papillary and follicular).
	Multiple	Multiple	Simultaneous	Multiple

Example 1: Single lesion, single site, single histology, different behavior

The pathology report from the biopsy of a cervical lesion identified invasive carcinoma (8010/3) and squamous cell carcinoma in situ (8070/2). This is a single histology, because carcinoma, NOS is a nonspecific morphology and squamous cell carcinoma is a specific morphology. Code the more specific histology and the invasive behavior (8070/3).

Example 2: Multiple lesions, single site, single histology, diagnosed within two months

A patient has a colectomy in August 2002 for an adenocarcinoma (8140/3). The physician biopsies the anastomotic site in September 2002. The pathologic examination confirms adenocarcinoma. This is a recurrence of the original tumor and should not be reported again.

Example 3: Multiple lesions, single site, single histology, diagnosed more than two months apart

A patient has surgery for a squamous cell carcinoma (8070/3) of the hard palate (C05.0) in January 2003. The physician biopsies another hard palate lesion in April 2003. Pathology confirms squamous cell carcinoma. There is no physician statement identifying the disease as recurrent or metastatic. This is a new primary and should be reported.

Example 4: Multiple lesions, single site, multiple histologies, diagnosed more than two months apart,
Exception

A transitional cell carcinoma (8120/3) of the trigone of the bladder (C67.0) was diagnosed in January of 2002. In May of 2003, a papillary transitional cell carcinoma (8130/3) of the bladder neck (C67.5) was diagnosed. Only the first bladder tumor would be reported, using a primary site code of C67.0 and a morphology code of 8120/3.

Example 5: Multiple lesions, multiple sites, single histology, simultaneous

The patient has masses in the esophagus and lung. Pathology identifies both lesions as squamous cell carcinoma, NOS (8070/3). Pathology does not identify either lesion as metastatic. There are two primaries: Esophagus (C15.9) and lung (C34.9).

Example 6: Multiple lesions, single site, multiple histologies, simultaneous

A patient has an adenocarcinoma (8140/3) at the gastroesophageal junction and a non-Hodgkin lymphoma (9591/3) in the body of stomach. The patient has two primaries.

Example 7: Multiple lesions, multiple sites, multiple histologies, simultaneous

A patient has a squamous cell carcinoma (8070/3) of the soft palate (C05.1) and an adenocarcinoma (8140/3) in Barrett esophagus (C15.9). The patient has two primaries.

BEHAVIOR

Item Length: 1
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

The fifth digit, which follows the slash after the histology code, is the behavior code. Behavior codes are listed in *ICD-O-3* page 66 and below. The State Cancer Registry requires only tumors ending in a fifth digit behavior code of /2 or /3 to be reported.

Note: *ICD-O-3* is effective for cases diagnosed January 1, 2001 forward. Continue to use *ICD-O-2* for cases diagnosed prior to 2001.

Codes

/0 Benign (do not report to State Registry)

Exception:

Benign neoplasms of the brain and central nervous system diagnosed January 1, 2004 or later should be reported.

/1 Uncertain whether benign or malignant (do not report to State Registry)

Borderline malignancy
 Low malignant potential

Exceptions:

Juvenile astrocytoma, listed as 9421/1 in *ICD-O-3*, is required and should be reported as 9421/3; Borderline neoplasms of the brain and central nervous system diagnosed January 1, 2004 or later should be reported.

/2 Carcinoma in situ (report to State Registry)

Intraepithelial
 Noninfiltrating
 Noninvasive

Exceptions: Preinvasive cervical neoplasia (in situ lesions and CIN III); prostatic intraepithelial neoplasia, grade III; and basal cell and squamous cell carcinoma of nongenital skin are not reportable if diagnosed 01/01/2003 or later.

/3 Malignant, primary site (report to State Registry)

/6 Malignant, metastatic site (do not use)

Malignant, secondary site

/9 Malignant, uncertain whether primary or metastatic site (do not use)

Instructions for Behavior Code

- Since tumor registries include only primary, and not metastatic sites, behavior codes 6 and 9 should never be used. They are listed here for informational purposes only.
- Behavior codes /0 (benign) and /1 (uncertain or borderline) are not reportable to the State Cancer Registry unless listed under exceptions above. However, at the discretion of the cancer committee, a hospital may choose to collect some of these cases, which are called "reportable-by-agreement." The behavior codes are listed here for informational purposes only.
- The behavior code /6 indicates a metastatic site. If the only specimen available for diagnosis was from a metastatic site, code the histologic type of the metastatic site and code a /3 for the behavior code.

If the primary site is known, record the applicable topography code. If the primary site is unknown, the topography code should be C80.9.

Example: If the patient had a biopsy of the lung showing metastatic adenocarcinoma (8140/6), the primary site is unknown (C80.9). Code the histology to adenocarcinoma (8140/3).

- d. “In situ” is a concept based upon histologic evidence. Therefore, clinical evidence alone cannot justify the usage of this term. If the fifth digit in Histology/Behavior is coded /2 (in situ), diagnostic confirmation should be 1, 2, or 4.

The following terms are synonymous with **in situ** (fifth digit behavior code /2):

(Adeno)carcinoma in an adenomatous polyp with no invasion of stalk
 AIN III – Anal intraepithelial neoplasia, grade III (C21.1, 8077/2)
 Bowen disease (8081/2)
 CIN III – Cervical intraepithelial neoplasia, grade III (C53._, 8077/2)
 Clark’s Level 1 for melanoma (limited to epithelium)
 Comedocarcinoma, noninfiltrating (C50._, 8501/2)
 Confined to epithelium
 High grade dysplasia in the gastrointestinal (GI) tract
 (Confirm that the pathologist uses “high grade dysplasia” for in situ in the GI tract.)
 Hutchinson melanotic freckle, NOS (C44._, 8742/2)
 Intracystic, noninfiltrating (carcinoma)
 Intraductal (carcinoma)
 Intraepidermal, NOS (carcinoma)
 Intraepithelial, NOS (carcinoma)
 Involvement up to but not including the basement membrane
 Lentigo maligna (C44._, 8742/2)
 Lobular neoplasia (C50._)
 Lobular, noninfiltrating (C50._, 8520/2) (carcinoma)
 Noninfiltrating (carcinoma)
 Noninvasive (carcinoma only)
 No stromal involvement or invasion (If there is stromal invasion, it is not in situ.)
 Papillary, noninfiltrating or intraductal (carcinoma)
 Precancerous melanosis (C44._, 8741/2)
 PIN III – Prostatic intraepithelial neoplasia, grade III (C61.9, 8148/2)
 Queyrat erythroplasia (C60._, 8080/2)
 AJCC Stage 0
 VAIN III – Vaginal intraepithelial neoplasia, grade III (C52.9, 8077/2)
 VIN III – Vulvar intraepithelial neoplasia, grade III (C51._, 8077/2)

- e. Code behavior as malignant (/3) if any malignant invasion is present, no matter how limited. Any pathologic diagnosis qualified as “microinvasive” is not considered “carcinoma in situ” and behavior should be coded as malignant (/3).

Example: The pathology report from a hysterectomy reads “carcinoma in situ (8010/2) of the cervix with microinvasion.” Code to invasive carcinoma (8010/3).

- f. Code behavior as malignant (/3) if any malignant metastasis to nodes or tissue beyond the primary is present.
- g. Gastro-intestinal stromal tumors (GIST) and thymomas are frequently non-malignant. However, they must be assigned a behavior code of 3 and abstracted if they have multiple foci, metastasis or positive lymph nodes.

GRADE/DIFFERENTIATION

Item Length: 1
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This is a required 1-character field to record the *ICD-O-3* code for the histologic grading or differentiation of solid tumors. Differentiation describes the tumor's resemblance to the normal tissue from which it arose. Well differentiated (Grade I) is the most like normal tissue. Grade/differentiation is the sixth digit of the histology code. For lymphomas and leukemias, this sixth digit describes the lineage or phenotype of the cell.

Codes for Solid Tumors**Code Description**

1	Well differentiated; differentiated, NOS
2	Moderately differentiated, moderately well differentiated, intermediate differentiation
3	Poorly differentiated, dedifferentiated
4	Undifferentiated, anaplastic
9	Grade not determined, not stated, or not applicable; unknown primaries; high-grade dysplasia.

Codes for Hematopoietic and Lymphoid Neoplasms**Code Description**

5	T-cell, T-precursor
6	B-cell, pre-B, B-precursor
7	Null cell, non T-non B
8	N K (natural killer cell) (effective for cases diagnosed 01/01/1995 and after)
9	Cell indicator not determined, not stated, or not applicable.

Instructions for Hematopoietic and Lymphoid Neoplasms

For hematopoietic and lymphoid neoplasms, refer to the "Grade of Tumor Rules" in the current *Hematopoietic and Lymphoid Neoplasm Manual and Database* at http://seer.cancer.gov/tools/heme/Hematopoietic_Instructions_and_Rules/.

General Instructions for Solid Tumor Grade

The instructions in this manual for coding solid tumor grade are based on the "Instructions for Coding Grade for 2014+" at <http://seer.cancer.gov/tools/grade/>.

- a. Code the grade or differentiation from the pathology report prior to any neoadjuvant treatment. If there is no pathology report prior to neoadjuvant treatment, assign code 9.
- b. Code the grade or differentiation from the pathologic examination of the primary tumor, not from metastatic sites.

Example: The pathology diagnosis for a biopsy of supraclavicular lymph nodes is "anaplastic adenocarcinoma compatible with lung primary." The histology/behavior/grade would be coded 8140/39 because the biopsy was not from the primary site.
- c. If the primary site is unknown, code the grade/differentiation as unknown (9).
- d. Code the grade (6th digit) shown below for specific histologic terms that imply a grade.
 - Carcinoma, undifferentiated (8020/34)
 - Carcinoma, anaplastic (8021/34)
 - Follicular adenocarcinoma, well differentiated (8331/31)
 - Thymic carcinoma, well differentiated (8585/31)
 - Sertoli-Leydig cell tumor, poorly differentiated (8631/33)

- Sertoli-Leydig cell tumor, poorly differentiated with heterologous elements (8634/33)
 - Undifferentiated sarcoma (8805/34)
 - Liposarcoma, well differentiated (8851/31)
 - Seminoma, anaplastic (9062/34)
 - Malignant teratoma, undifferentiated (9082/34)
 - Malignant teratoma, intermediate type (9083/32)
 - Intraosseous osteosarcoma, well differentiated (9187/31)
 - Astrocytoma, anaplastic (9401/34)
 - Oligodendroglioma, anaplastic (9451/34)
 - Retinoblastoma, differentiated (9511/31)
 - Retinoblastoma, undifferentiated (9512/34)
- e. Code the grade for in situ lesions if the information is available. Do not code grade for dysplasia, such as high-grade dysplasia. If the lesion is both invasive and in situ, code only the invasive portion. If the invasive component grade is unknown, assign code 9.
- f. If more than one grade of tumor is specified, code to the highest grade, even if the highest grade is only a focus.
- Example:* Code moderately to poorly differentiated carcinoma to poorly differentiated (3). Moderately differentiated is coded 2, and poorly differentiated is coded 3. Use the higher code.
- g. Do not use the WHO grade to code this data item. For primary tumors of the brain and spinal cord diagnosed 01/01/2004 and later, record the WHO grade in the data item *CS Site-Specific Factor 1*.
- h. When there is no pathology or cytology confirmation, code the grade of a tumor documented in CT scan, Magnetic Resonance Imaging (MRI), or Positron Emission Tomography (PET) report. Brain tumors can be graded using these methods.

Prioritization Rules for Solid Tumor Grade

Code grade using the first system that applies in the following priority order:

- 1) Special grade systems (See the instructions and conversion tables in section a below for breast, prostate, sarcomas, and kidney parenchyma.). Do not use the special grade system tables for any other groups.
- 2) Differentiation (See conversion tables in section b below for 2-, 3-, or 4- grade systems.)
- 3) Nuclear grade (See conversion tables in section b below for 2-, 3-, or 4- grade systems.)
Note: If a 2-, 3-, or 4- grade system was used, code from the conversion tables below, even if it not clear whether it is a differentiation or nuclear grade.
- 4) Terminology (See the conversion table in section c below for coding from terminology only.)

a. Special Grade Systems

Breast (excluding lymphomas)

Use the conversion table below to code grade for breast using the Bloom-Richardson (BR) or Nottingham score or grade. A BR score takes precedence over a BR grade.

BR may also be called: modified Bloom-Richardson, Scarff-Bloom-Richardson, SBR grading, BR grading, Elston-Ellis modification of Bloom-Richardson score, the Nottingham modification of Bloom-Richardson score, Nottingham modification of Scarff-Bloom-Richardson, Nottingham-Tanovus grade, or Nottingham grade.

Code using the highest score if multiple scores are reported, either in multiple pathology reports for the same primary or different scores for multiple tumors abstracted as a single primary. Exclude scores for specimens taken after neoadjuvant treatment was started.

BR Conversion Table for Invasive Breast Carcinoma

Grade Code	Description
1	BR score of 3, 4 or 5
2	BR score of 6 or 7
3	BR score of 8 or 9
1	Low grade, Bloom-Richardson (BR) grade 1, score not stated
2	Medium (intermediate) grade, BR grade 2, score not stated
3	High grade, BR grade 3, score not given

If there is no BR or Nottingham score stated and it is not clear that a stated grade is a BR or Nottingham grade, do not use the conversion table above. Use the next system that applies from the solid tumor prioritization rules listed above.

Prostate (excluding lymphomas)

For prostate cancers, code the tumor grade using the highest Gleason score reported, regardless of whether it is from a biopsy, TURP, prostatectomy or autopsy. Exclude scores for specimens taken after neoadjuvant treatment was started.

Gleason Pattern

Gleason grading is based on a 5-component system, based on 5 histologic patterns. The most predominant pattern and second most predominant pattern are identified and stated in the pathology report. If the primary pattern is 3 and the secondary pattern is 4, Gleason pattern is 3 + 4.

Gleason Score

The primary and secondary Gleason patterns are added together to create Gleason score. If Gleason patterns are 3 + 4, the Gleason score is 7.

Rules for when only a single number for Gleason is stated:

- If the number is less than or equal to 5, and not specified as the score, do not use the information.
- If the number is greater than 5, assume that is a score and use it.
- If the report states a specific number out of a total of 10, the specific number is the score. (e.g., for Gleason 3/10, the score would be 3.)

Gleason Conversion Table for Prostate Cancer (revised for cases diagnosed 2014 and forward)

Grade Code	Gleason Score (sum of primary & secondary patterns)
1	2, 3, 3, 4, 5, or 6
2	7
3	8, 9, or 10

Note: Gleason score 7 was moved from Grade code 2 to 3, effective for cases diagnosed from 01/01/2003 through 12/31/2013. Gleason scores 5 and 6 were moved from Grade code 2 to 1, effective for cases diagnosed on or after 01/01/2014.

Kidney Parenchyma (excluding lymphomas)

For kidney cancers, code the tumor grade using the Fuhrman Nuclear Grade. It is a direct conversion from Fuhrman Nuclear Grade to tumor grade as shown below. Do not use for kidney renal pelvis.

Grade Code	Fuhrman Nuclear grade
1	Grade 1
2	Grade 2
3	Grade 3
4	Grade 4

Sarcoma (Sites: soft tissue, heart, mediastinum, peritoneum, and retroperitoneum)

For sarcomas, code the tumor grade from any three-grade sarcoma grading system the pathologist uses. A numeric grade takes precedence over “low grade” or “high grade.”

Grade Code	Description
2	Grade 1 (of 3)
3	Grade 2 (of 3)
4	Grade 3 (of 3)
2	Low grade, NOS
4	High grade, NOS

If only the terms “well differentiated” or “poorly differentiated” are used, use the table in section c below for coding grade from terminology.

b. Two-, Three-, and Four-grade Systems

Two-grade Systems

Use the two-grade conversion table to assign a grade code.

Code	Description	Term	Exception for Breast and Prostate Grade Code
2	Low grade	1/2, I/II	1
4	High grade	2/2, II/II	3

For transitional cell carcinoma (TCC) of bladder, code the terminology high grade TCC and low grade TCC using the two-grade system.

Three-grade Systems

Use the three-grade conversion table to assign a grade code.

Code	Description	Term	Exception for Breast and Prostate Grade Code
2	Low grade	I/III or 1/3	1
3	Intermediate grade	II/III or 2/3	2
4	High grade	III/III or 3/3	3

Four-Grade Systems

Use the four-grade conversion table to assign a grade code.

Code	Description	Term
1	Grade I; well differentiated	1/4
2	Grade II; moderately differentiated	2/4
3	Grade III; poorly differentiated	3/4
4	Grade IV; undifferentiated	4/4

c. Terminology

When none of the above systems apply, and grade is coded from terminology only, use the table below. Breast and prostate use the same grade code, except as noted in the exception column.

Grade Code	Exception for Breast and Prostate Grade Code	Description	Grade
1		Differentiated, NOS	I
1		Well differentiated	I
1		Only stated as "Grade I"	I
2		Fairly well differentiated	II
2		Intermediate differentiation	II
2	1	Low grade	I-II
2		Mid differentiated	II
2		Moderately differentiated	II
2		Moderately well differentiated	II
2		Partially differentiated	II
2	1	Partially well differentiated	I-II
2		Relatively or generally well differentiated	II
2		Only stated as "Grade II"	II
3	2	Medium grade, intermediate grade	II-III
3		Moderately poorly differentiated	III
3		Moderately undifferentiated	III
3		Poorly differentiated	III
3		Relatively poorly differentiated	III
3		Relatively undifferentiated	III
3		Slightly differentiated	III
3		Dedifferentiated	III
3		Only stated as "Grade III"	III
4	3	High grade	III-IV
4		Undifferentiated, anaplastic, not differentiated	IV
4		Only stated as "Grade IV"	IV
9		Non-high grade	

GRADE PATH VALUE

Item Length: 1
Data Type: Numeric
ACoS: Required
State Registry: *Required

*Required if available for cases diagnosed 01/01/2011 through 12/31/2013.

Description

This is a required 1-character field to record the numerator or first number of a tumor grade reported in a 2, 3, or 4 grade system. It supplements but does not replace the field Grade/Differentiation, which is part of the ICD-O-3 morphology code structure and may be converted from another grading system or coded by a different set of rules. Grade Path Value is paired with Grade Path System to describe the original grade of the tumor.

Codes

1 Recorded as Grade I or 1
2 Recorded as Grade II or 2
3 Recorded as Grade III or 3
4 Recorded as Grade IV or 4
Blank No 2, 3, or 4 grade system available. Unknown

Instructions

Refer to Part 1, Section 1 of the current *CS Manual* for coding instructions.

This item may be left blank if unknown or there is no 2, 3, or 4 grade system available.

This item should be blank for all lymphomas and hematopoietic malignancies.

GRADE PATH SYSTEM

Item Length: 1
Data Type: Numeric
ACoS: Required
State Registry: *Required

*Required if available for cases diagnosed 01/01/2011 through 12/31/2013.

Description

This is a required 1-character field to record the denominator or second number of tumor grade reported in a 2, 3, or 4 grade system. It supplements but does not replace the field Grade/Differentiation, which is part of the ICD-O-3 morphology code structure and may be converted from another grading system or coded by a different set of rules. Grade Path System is paired with Grade Path Value to describe the original grade of the tumor.

Codes

2 Recorded as Grade x of or / II or 2
3 Recorded as Grade x of or / III or 3
4 Recorded as Grade x of or /IV or 4
Blank No 2, 3, or 4 grade system available. Unknown

Instructions

Refer to Part 1, Section 1 of the current *CS Manual* for coding instructions.

This item may be left blank if unknown or there is no 2, 3, or 4 grade system available.

This item should be blank for all lymphomas and hematopoietic malignancies.

LYMPH-VASCULAR INVASION

Item Length: 1
Data Type: Numeric
ACoS: Required
State Registry: *Required

*Required if available for cases diagnosed 01/01/2012 and later.

Description

This is a required 1-character field to record a code that indicates the presence or absence of tumor cells in lymphatic channels (not lymph nodes) or blood vessels within the primary tumor as documented from the microscopic examination by the pathologist.

Other names for lymph-vascular invasion are LVI, lymphovascular invasion, vascular invasion, blood vessel invasion, angiolymphatic invasion, and lymphatic invasion. It does not include perineural invasion and is not the same as direct tumor extension from the primary tumor into adjacent blood vessels or involvement of regional lymph nodes.

Codes

- 0 Lymph-vascular invasion is not present (is absent) or is not identified.
- 1 Lymph-vascular invasion is present or identified.
- 8 Not applicable.
- 9 Unknown or indeterminate.

Instructions

1. For State reporting, this item may be left blank for cases diagnosed before 2012.
2. Code from documentation in the following priority order:
 - College of American Pathologist (CAP) synoptic report or checklist
 - Pathology report
 - Physician's statement

Use information documented for any specimen from the primary tumor.

3. Assign code 1 if lymph-vascular is identified anywhere in a primary tumor specimen.
4. Assign code 0:
 - If the pathology report indicates no lymph-vascular invasion was identified;
 - For in situ carcinoma.
5. Assign code 8 for the following diagnoses:
 - Hodgkin and non-Hodgkin lymphoma
 - Leukemias
 - Hematopoietic and reticuloendothelial disorders
 - Myelodysplastic syndromes, including refractory anemias and refractory cytopenias
 - Myeloproliferative disorders
6. Assign code 9 when:
 - No pathologic examination of primary site tissue was performed;
 - Lymph-vascular invasion is not mentioned in the pathology report;
 - The only primary site specimen is a cytology or a fine needle aspiration;
 - The biopsy is only a very small tissue sample;
 - The pathologist indicates the specimen is insufficient to determine lymph-vascular invasion;
 - It is not possible to determine whether lymph-vascular invasion is present.

DESCRIPTION OF DIAGNOSIS

Data Type: Text

RMCDs Items:

ACoS: N/A

Primary Site Title, Histology Title, Dx Procedure Pathology

State Registry: Required

Description

This is a required text field in the paper abstract and the corresponding required RMCDs fields for recording a narrative description of the primary site, histologic type, behavior, and grade. Facilities using other types of registry software should follow their vendor's instructions for recording text about the site and histology.

Rationale

Text is needed to justify the codes selected for the data items and to record information that is not coded at all. The text is used for quality control and special studies.

Instructions

- a. Record a brief, but specific, description of the site of origin for the tumor being reported. Include laterality if applicable. Use standard abbreviations to conserve space if necessary and if each abbreviation has a clear meaning and only one interpretation.

Example 1: Upper outer quadrant (UOQ) of right (RT) breast.

Example 2: Splenic flexure of colon.

- b. Record a brief, but specific, description of the histologic type, behavior, and grade of the tumor being reported. Use standard abbreviations to conserve space if necessary and if each abbreviation has a clear meaning and only one interpretation.

Example 1: Infiltrating duct and lobular carcinoma (ca).

Example 2: Moderately well differentiated (MWD) adenocarcinoma (adenoca) in adenomatous polyp.

Example 3: Malignant lymphoma, lymphocytic, poorly differentiated (PD), nodular.

Example 4: Superficial spreading melanoma.

Example 5: Astrocytoma, stage III.

Example 6: Adult T-cell leukemia.

- c. In the Description of Diagnosis or the RMCDs Dx Procedure Pathology field, record any additional pertinent information from cytology and histopathology reports. In RMCDs it is not necessary to repeat information recorded in the primary site and histology text fields. Include, as applicable:

Date(s) of procedure(s)

Type(s) of tissue specimen(s)

Gross tumor size

Extent of tumor spread

Involvement of resection margins

Information regarding lymph-vascular invasion (LVI)

Number of lymph nodes involved and examined

Differential diagnoses considered and any ruled out or favored.

- d. Facilities using paper abstracts to report should also **attach copies of medical record documentation** (such as pathology reports and operative reports) that identifies the site and histology information for the primary being reported. However, text describing the site and histology must be completed by all reporting facilities.

TUMOR SIZE

Item Length: 3
 Data Type: Numeric
 Right Justified, Zero Fill
 ACoS: Required*
 State Registry: Required*

*For cases diagnosed on or before 12/31/2003

Description

This is a required 3-character field to record the largest dimension, or the diameter, of the primary tumor in millimeters. Right justify and enter leading zeros.

Note: Code this data item for cases diagnosed on or before December 31, 2003. For cases diagnosed on or after January 1, 2004 code tumor size using *CS Tumor Size*.

Codes

- 000 No mass or tumor found; e.g., a tumor of a stated primary site is not found, but the tumor has metastasized.
- 001-988 Exact size in millimeters; for melanoma, depth in hundredths of millimeters.
- 989 989 millimeters or larger; melanomas greater than or equal to 9.89 mm in depth.
- 990 Microscopic focus or foci only, no size is given.
- 998 Tumor involvement of specified esophageal, stomach, colorectal, lung and main stem bronchus, and breast primaries. See coding instructions.
- 999 Unknown; size not stated; not stated in the patient record; not applicable.

Instructions

- a. Code the exact size of the primary tumor in millimeters (mm).

Conversion/Rounding

- To convert centimeters to millimeters, move the decimal point one digit to the right (or multiply the centimeters by 10).

0.1cm = 1 mm
 1 cm = 10 mm
 3.2 cm = 32 mm

- Use code 001 for tumors less than 1 mm in size
- Formulas for converting inches to millimeters are listed below.

394 inch = 10 mm
 1 inch = 25 mm

Exception:

- For melanomas, code the depth of invasion in HUNDRETHS of millimeters for the following sites: skin (C44.0-C44.9), vulva (C51.0-C51.9), penis (C60.0-C60.9), scrotum (C63.3), and conjunctiva (C69.0). A 1-mm depth would be recorded as 100.
- Use code 989 for melanomas of the above sites that are 9.89 mm or greater in depth.

- b. Recording pathologic size versus clinical size:

- (1) Use the size documented on the pathology report when:

- The pathologist identifies the size of a completely excised primary tumor.
- The surgical margins were grossly free of disease (there may be microscopic involvement).

- (2) Use the clinical size when:

- The primary tumor was not surgically excised.
- The primary tumor was excised but the margins were grossly involved.
- The primary tumor was excised but the pathology report does not specify tumor size.
- The patient was treated with radiation therapy, chemotherapy, hormone therapy, or immunotherapy before the primary was surgically excised. Code the size of the tumor prior to the therapy.

Use the clinical tumor size documented in the following reports/examinations (listed in priority order): operative report, scans, x-ray, or physical examination.

- c. Code the size of the primary tumor, rather than the size of the specimen, polyp, ulcer, cyst, or metastasis.
- Example:* The patient had an excisional breast biopsy. Pathology report states that the specimen measures 2 cm x 3 cm, but does not state the actual size of the tumor. Do not use the specimen size of 2 cm x 3 cm. Code the size from the operative report, mammography, or the physical exam.
- d. Code the largest dimension or diameter of a tumor when multiple measurements are recorded.
- e. Record the size of the largest tumor when a patient has more than one tumor in the same primary site.
- f. When a tumor has both in situ and invasive components, record the size of the invasive component only. For purely in situ tumors, code the size as stated.
- g. Do not report the tumor size based on a biopsy unless the biopsy removed all of the primary tumor. Code the size of the residual tumor if an excisional biopsy is performed, and residual tumor at the time of resection of the primary site is found to be larger than the excisional biopsy.
- h. Do not add pieces or chips together to create a whole. They may not be from the same location, or they may represent only a very small portion of a large tumor. A clinical size may be documented in a physical exam, an ultrasound of the prostate, or a cystoscopy of the bladder.
- i. Record **998** when the following terms describe tumor involvement in these specific sites:
- | | |
|-----------------------------------------------|---------------------------------------------------------------------------------------|
| • Esophagus (C15.0 – C15.9) | Entire circumference |
| • Stomach (C16.0 – C16.9) | Diffuse; widespread; 3/4 or more; linitis plastica |
| • Colorectal (C18.0 – C20.9) | Familial/multiple polyposis (histology 8220 or 8221 with a behavior code of /2 or /3) |
| • Lung and main stem bronchus (C34.0 – C34.9) | Diffuse, entire lobe or lung |
| • Breast (C50.0 – C50.9) | Diffuse; widespread; 3/4 or more of breast; inflammatory carcinoma |
- j. Record **999** for the following:
- Tumor size is unknown or not documented in the patient record.
 - Prostatic chips or bladder chips are the only measurement documented in the patient record.
 - If only one size is given for a mixed in situ and invasive tumor.
 - For a needle biopsy specimen.
 - The patient was treated with radiation therapy, chemotherapy, hormone therapy, or immunotherapy before the primary was surgically excised and no clinical size prior to therapy is documented.
 - For the following sites and diseases:
 - Hematopoietic, reticuloendothelial, immunoproliferative, myeloproliferative, and myelodysplastic diseases. (C42.0, C42.1, C42.3, C42.4 and/or M-9750, 9760-9764, 9800-9820, 9826, 9831-9920, 9931-9964, 9980-9989)
 - Hodgkin and non-Hodgkin lymphomas, including mycosis fungoides of skin (9700) and Sezary disease (9701)
 - Kaposi sarcoma (9140)
 - Letterer-Siwe disease (9754)
 - Multiple myeloma (9732)
 - Unknown or ill-defined primary site or sites (C76.0-C76.8, C80.9)

Codes with Examples:

- 013 A patient with lung cancer is described as having a 1-cm nodule in the right upper lobe and a 1.3-cm nodule in the right middle lobe of the lung. Code the size of the largest nodule as 13 mm.
- 044 A pathology report describes the tumor size as 3 x 4.4 x 2.5 cm. Code the largest diameter of the tumor as 44 mm.
- 001 A pathology report describes a specimen that measures 2 x 3 cm with a focus (microscopic) of infiltrating carcinoma. Code microscopic focus as 1 mm.
- 010 A pathology report describes a breast mass as 2- x 1.5-cm intraductal carcinoma and a 1-cm nodule of infiltrating ductal carcinoma. Code the invasive component as 10 mm.
- 045 A patient with melanoma of the skin has the primary tumor excised, and the thickness of the tumor was measured as 0.45 mm. Code the depth of invasion in HUNDRETHS of mm or 45.
- 001 The patient had a colonoscopy with polypectomy. The pathology report describes “a 1 x .5 cm polyp with a microscopic focus of adenocarcinoma in situ.” Do not record 10 mm as tumor size. Use the size given in the conversion table below for microscopic (001 mm).

Conversion Table

If a descriptive term rather than the actual size is documented, use the following list for size conversion.

Example: For microscopic foci of tumor, record tumor size as 001.

OBJECT	CM	MM	OBJECT	CM	MM	OBJECT	CM	MM
Fruits			Pea, split	00.9	009	Money		
Apple	07.0	070	Nuts			Dime	01.0	010
Apricot	04.0	040	Almond	03.0	030	Dollar, half	03.0	030
Cherry	02.0	020	Chestnut	04.0	040	Dollar, silver	04.0	040
Date	04.0	040	Chestnut, horse	04.0	040	Nickel	02.0	020
Fig, dried	04.0	040	Hazel	02.0	020	Penny	01.0	010
Grape	02.0	020	Hickory	03.0	030	Quarter	02.0	020
Grapefruit	10.0	100	Peanut	01.0	010	Other		
Kumquat	05.0	050	Pecan	03.0	030	Ball, golf	04.0	040
Lemon	08.0	080	Walnut	03.0	030	Ball, Ping-Pong	03.0	030
Olive	02.0	020	Miscellaneous Food			Ball, tennis	06.0	060
Orange	09.0	090	Doughnut	09.0	090	Baseball	07.0	070
Peach	06.0	060	Egg	05.0	050	Fist	09.0	090
Pear	09.0	090	Egg, bantam	04.0	040	Marble	01.0	010
Plum	03.0	030	Egg, goose	07.0	070	Match head	00.9	009
Tangerine	06.0	060	Egg, hen	03.0	030	Pencil eraser	00.9	009
Vegetables			Egg, pigeon	03.0	030	Microscopic	00.1	001
Bean	01.0	010	Egg, robin	02.0	020	1 centimeter	01.0	010
Bean, lima	02.0	020	Lentil	00.9	009	1 inch	02.5	025
Pea	00.9	009	Millet	00.9	009	.394 inches	01.0	010

Note: Text Documentation

In the RMCDS abstract screen, an optional text field labeled *Description of Size* follows the *Tumor Size* field. Facilities that choose to complete this field should briefly record the text from the medical record documentation used to code *Tumor Size*. If the *Description of Size* field is not completed, tumor size information should be recorded in any text field describing the site and histology. Facilities using other types of registry software should follow their vendor's instructions for recording text.

REGIONAL NODES POSITIVE

Item Length: 2
Data Type: Numeric
Right Justified, Zero Fill
ACoS: Required
State Registry: Required

Description

This is a required 2-character field to record the number of regional lymph nodes the pathologist examined and described as metastatic, or positive for malignancy. For numbers less than 10, enter a leading zero. Beginning with cases diagnosed on or after January 1, 2004, this item is a component of the Collaborative Stage Data Collection System (CS).

Codes

- 00 All regional nodes examined are negative.
01-89 1-89 regional nodes are positive. Code exact number of nodes positive.
90 90 or more regional nodes are positive.
95 Positive aspiration or core biopsy of regional lymph node(s) was performed.
97 Positive regional lymph nodes are documented, but the number is unspecified.
98 No regional nodes were examined.
99 It is unknown whether nodes are positive; not applicable; not stated in the patient record.

Example: The pathology report reads 11 out of 17 nodes examined were found to contain metastatic squamous cell carcinoma. Record 11 in the *Regional Nodes Positive* field.

Instructions

- a. For complete information refer to the general instructions, definitions, and examples in Part 1, Section 1 of the current CS Manual and the site and histology-specific instructions in Part 2 of the current CS Manual.
- b. Record the total number of regional lymph nodes removed as part of the first course of treatment, examined by the pathologist, and reported to contain cancer. The number of regional lymph nodes positive is cumulative from all procedures that removed lymph nodes through the completion of surgeries in the first course of treatment.
 - Do not record positive *distant* lymph nodes removed as part of the first course of treatment.
 - Do not code positive regional lymph nodes removed to establish recurrence or progression of disease.
 - Do not code nodes assessed by clinical examination only and stated to be positive.
- c. Record the number positive regardless of whether the patient received preoperative treatment.
- d. Since true in situ cases cannot have positive lymph nodes, the only allowable codes are 00 (negative) or 98 (not examined). Codes 01-97 and 99 are not allowed for in situ cases.
- e. Use code 99 for the following primary sites and histologies:
 - Placenta
 - Brain and cerebral meninges
 - Other parts of central nervous system
 - Hodgkin and non-Hodgkin lymphoma
 - Hematopoietic, reticuloendothelial, immunoproliferative, myelodysplastic or myeloproliferative neoplasms
 - Myeloma and plasma cell disorders
 - Other and ill-defined primary sites
 - Unknown primary site.

- f. “Lymphatic invasion” means that tumor was found in lymph channels, but does not necessarily mean that the lymph node was invaded. It is a prognostic indicator, however, since it indicates that the tumor is present in the pathway by which it spreads.

REGIONAL NODES EXAMINED

Item Length: 2
Data Type: Numeric
Right Justified, Zero Fill
ACoS: Required
State Registry: Required

Description

This is a required 2-character field to record the total number of regional lymph nodes that were examined by a pathologist. For numbers less than 10, enter a leading zero. Beginning with cases diagnosed on or after January 1, 2004, this item is a component of the Collaborative Stage System (CS).

Codes

- 00 No regional lymph nodes were examined.
- 01-89 1-89 regional lymph node(s) were examined. Code the exact number of regional lymph nodes examined.
- 90 Ninety or more regional lymph nodes were examined.
- 95 No regional lymph node(s) were removed but aspiration or core biopsy of regional lymph node(s) was performed.
- 96 Regional lymph node removal was documented as a sampling and the number of lymph nodes is unknown/not stated.
- 97 Regional lymph node removal was documented as a dissection and the number of lymph nodes is unknown/not stated.
- 98 Regional lymph nodes were surgically removed but the number of lymph nodes unknown/not stated and not documented as sampling or dissection; nodes were examined but the number is unknown.
- 99 It is unknown whether nodes were examined; not applicable or negative; not stated in the patient record.

Instructions

- a. For complete information refer to the general instructions, definitions, and examples in Part 1, Section 1 of the current CS Manual and the site and histology-specific instructions in Part 2 of the current CS Manual.
- b. Record the total number of regional lymph nodes removed as part of the first course of treatment and examined by the pathologist. The number of regional lymph nodes examined is cumulative from all procedures that removed lymph nodes through the completion of surgeries in the first course of treatment.
 - Do not record *distant* lymph nodes removed as part of the first course of treatment.
 - Do not code regional lymph nodes removed to establish recurrence or progression of disease.
 - Do not code nodes assessed by clinical examination. The statement, "the neck was negative for nodes," should be interpreted (coded) as "no nodes examined."
- c. Record the number examined regardless of whether the patient received preoperative treatment.
- d. Use code 99 for the following primary sites and histologies:
 - Placenta
 - Brain and cerebral meninges
 - Other parts of central nervous system
 - Hodgkin and non-Hodgkin lymphoma
 - Hematopoietic, reticuloendothelial, immunoproliferative, myelodysplastic or myeloproliferative neoplasms
 - Myeloma and plasma cell disorders
 - Other and ill-defined primary sites
 - Unknown primary site

SUMMARY STAGE 2000
(GENERAL SUMMARY STAGE)

Item Length: 1
 Data Type: Numeric
 ACoS: Required*
 State Registry: Required*

* Required by ACoS only for cancers diagnosed through 12/31/2003 with no AJCC staging schema. Required by the State Registry for all cases diagnosed through 12/31/2003 and beginning with cases diagnosed 01/01/2015 and later.

Description

This is a required 1-character field for recording a code that indicates the extent of cancer spread. The only way to determine the correct Summary Stage is by referring to the *SEER Summary Staging Manual, 2000*. You cannot determine the correct code without using this manual. The Summary Stage must be completed on all cases diagnosed through 2003. Refer to the *SEER Summary Staging Manual* for complete guidelines on assigning Summary Stage to be used in this section.

Note: *SEER Summary Staging Manual, 2000* is effective for cases diagnosed January 1, 2001 through December 31, 2003 and beginning with cases diagnosed 01/01/2015. Continue to use *SEER Summary Staging Guide, 1977* for cases diagnosed prior to 2001.

Codes

- 0 In situ
- 1 Localized
- 2 Regional by direct extension
- 3 Regional to lymph nodes only
- 4 Regional by direct extension and to lymph nodes (combination of codes 2 and 3)
- 5 Regional, NOS
- 7 Distant metastases/systemic disease
- 9 Unstaged, unknown, or unspecified

Definitions and Rules

- a. Summary Stage of disease is a clinical judgment of the extent of cancer spread and should include all information available through completion of surgery(ies) in the first course of treatment or within four months of diagnosis in the absence of disease progression, whichever is longer. Stage does not change as the disease progresses. Metastasis that is known to have developed after the original diagnosis was made should be excluded.
- b. For all sites, the extent of disease is based on pathologic, operative, and clinical assessment. If there is a discrepancy between the pathology report and the operative report, the priority for assessing extent of disease is based on pathologic, operative, then clinical findings, respectively. Gross observations at surgery are particularly important when not all malignant tissue is removed. If no surgery is performed, use all diagnostic or radiological evidence and therapeutic procedures available in the medical record to determine the Summary Stage, if enough information is provided.
- c. Autopsy reports are used in coding extent of disease by applying the same rules for inclusion and exclusion.
- d. The terms used to describe tumor involvement are sometimes ambiguous. Chapter 4 lists terms that may be interpreted as tumor involvement or non-involvement.
- e. There is only one correct Summary Stage for each tumor. If the State Cancer Registry receives reports from multiple hospitals for the same case and the Summary Staging doesn't match, State Registry staff will select and save only the most appropriate Summary Stage based on the best information available.

CODES	TERM	DEFINITIONS
0	In Situ	<p>Not progressed through the basement membrane of the organ involved (non-invasive tumor). Only organs with an epithelium can be “in situ;” this excludes muscles, connective tissues, fat (adipose tissue), bones, cartilage, ligaments, tendons, blood cells and vessels, and lymph nodes and vessels.</p> <p>Used only when the pathology report demonstrates that involvement is confined to the basement membrane and the tumor is described as noninvasive, pre-invasive, noninfiltrating, intraductal, intraepithelial, or in situ. See the behavior section in this chapter for additional terms that are synonymous with “in situ.”</p> <p>If there is evidence of lymph node involvement of a tumor described as in situ, it would indicate that an area of invasion was missed, and it is <u>not</u> an in situ lesion. Be cautious regarding needle biopsy of the lung. The specimen may be from the edge of the lesion and be reported as “in situ,” when actually an invasive lesion of advanced stage is present.</p> <p><i>Coding Tips: If the fifth digit of Histology/Behavior code is /2 (in situ), Summary Stage must be coded 0 (in situ). If Summary Stage is coded 0, the behavior code must be /2.</i></p>
1	Localized	<p>Limited to the site of origin; progression through the basement membrane, but not beyond the walls of the organ involved. Includes tumors confined to the primary organ site or described as microinvasive or “early” invasion.</p> <p>Stage I (localized) lymphomas are included here.</p>
2	Regional by direct extension	<p>Tumors not confined to the organ of origin (primary site), but which extend into adjacent organs or tissues by passing through the wall of the primary organ. If the tumor spreads to a NON-contiguous organ from the primary site, it is no longer regional.</p>
3	Regional to lymph nodes only	<p>Tumor involvement with regional lymph nodes only.</p> <p>Includes lymph nodes in the area (region) of the primary tumor that contain tumor and the cancer has not spread to other organs by direct extension. Do not use evidence of palpable nodes as described in the physical examination of the patient to increase the stage of disease unless the record clearly states that in the physician’s judgment, the node is involved. Nodes described as “fixed” or “matted” are considered involved. “Mass in the mediastinum, retroperitoneum, and/or mesentery” (with no specific information as to tissue involved) is considered involvement of lymph nodes.</p> <p>Any unidentified lymph nodes included with the resected primary site specimen are to be considered regional, rather than distant, lymph nodes.</p> <p>Regional lymph nodes are not palpable for inaccessible sites such as bladder, kidney, lung, liver, and ovary. The best description concerning regional lymph nodes will be the surgeon’s evaluation at the time of exploratory surgery or definitive surgery, or x-ray and CT scans if no surgery is performed.</p>
4	Regional by direct extension and to lymph nodes	<p>Tumor invades adjacent organ(s) <u>and</u> regional lymph nodes (codes 2 and 3).</p>
5	Regional, NOS	<p>Regional, not other wise specified. (The stage is known to be regional, but the medical record is unclear as to whether it is through direct extension or lymph node involvement.)</p> <p>Stage II (regional) lymphomas are included here.</p>

CODES	TERM	DEFINITIONS
7	Distant	<p>Cases that have (1) Direct extension beyond adjacent organs or tissues, (2) Metastases to distant lymph nodes, and/or (3) Metastases to distant site(s) via the circulatory or lymphatic system or by “seeding” or implantation to parts remote from the primary tumor. This category usually includes brain, liver, bone, and lung metastases.</p> <p>Code the following primary sites as having distant metastases/systemic disease (7): Leukemia, multiple myeloma, plasma cell myeloma, reticuloendotheliosis, immunoproliferative neoplasms, myeloproliferative and myelodysplastic neoplasms, and Letterer-Siwe disease.</p> <p>Stage III and IV (distant) lymphomas are included here.</p>
9	Unstaged	<p>No information or death certificate only.</p> <p>Includes the following:</p> <ol style="list-style-type: none"> 1) Unknown primaries (C80.9) 2) Unstaged or unspecified primaries 3) Patients with recurrent disease seen for the first time at your hospital after your reference date, unless the stage at initial diagnosis is known.

See additional definitions in the Glossary at the end of the Policy and Procedure Manual.

Instructions

- a. To determine the Summary Stage code, using the *SEER Summary Staging Manual*, look up the section for the original site where the cancer started. Each such section is divided into general staging categories (localized, regional, and distant).
 - (1) The “Localized” category lists the layers or parts of the primary organ. If the cancer is contained within these layers, it is considered localized (code 1).
 - (2) The “Regional” category is divided into “Direct Extension” and “Lymph Nodes” subcategories. If the cancer has spread to any of the adjacent organs or sites listed in the Direct Extension subcategory, it is considered regional by direct extension (code 2). If the cancer has spread to the regional lymph nodes specified, it is considered regional to lymph nodes (code 3). If the cancer has spread to adjacent organs and to regional lymph nodes, use code 4, a combination of codes 2 and 3.
 - (3) The “Distant” category lists the most common, but not all, sites of distant spread for each primary site. If the cancer has spread to an organ that is not directly touching the original primary organ, it is considered distant by direct extension or metastasis (code 7). Positive lymph nodes that are not in the region of the original primary site are considered distant lymph nodes (Summary Stage code 7). Use the *SEER Summary Staging Guide* to determine if a lymph node is regional or distant. The *AJCC Cancer Staging Manual* (the TNM coding book) is also a good reference to use when determining Summary Stage, even if you do not actually assign TNM codes. The AJCC manual often lists lymph nodes that are considered regional (vs. distant lymph nodes) and includes illustrations that may clarify the various layers of an organ (e.g., colon).

- b. In the *SEER Summary Staging Guide 1977*, the categories localized, regional by direct extension, and distant are subdivided into further categories, although these subdivisions are not used at the State Registry. The categories are not subdivided in the *SEER Summary Staging Manual 2000*. For cases diagnosed prior to January 1, 2001, the subdivisions should be coded as follows:

CODES	SUMMARY STAGE	DESCRIPTION OF SUBDIVISION
1	Localized	L1, L2, L3, LX
2	Regional by direct extension	R1, R2
7	Distant metastases/systemic disease	D1, D2

- c. Unknown primaries (C80.9) should be coded 9 (unstaged), even if the unknown primary has been diagnosed from a metastatic site.

Example: A patient with an unknown primary site (C80.9) has metastases in the brain and liver. Although at least one of these sites has to be a metastatic site distant from the original primary (since brain and liver are not adjacent to each other), Summary Stage should be coded 9 (unknown) to be consistent with ACoS rules in the *FORDS*. If you want to document these metastatic sites, record them in the text item, *Substantiate Stage*.

d. Kaposi Sarcoma

- (1) For cases diagnosed January 1, 2001 through December 31, 2003, use the Kaposi sarcoma staging scheme found in the *SEER Summary Staging Manual, 2000*.
- (2) For cases diagnosed prior to 2001 (according to advice from NAACCR), since there is no disease-specific staging scheme for Kaposi sarcoma in the *SEER Summary Staging Guide, 1977*, registries may use the scheme appropriate for the primary site. If the primary site is skin, use the "skin other than melanoma" scheme. Although this is not ideal, it does allow grouping of cases based on how extensive the Kaposi sarcoma was at diagnosis.

Example: A single lesion of the skin with no lymph node or other involvement would be Summary Stage 1 (local). A patient with either a lesion on both the right and left legs, or widespread skin lesions, would be Summary Stage 7 (distant).

e. Malignant Melanoma

Clark's Level and Breslow's Depth of Invasion are other staging systems for malignant melanoma. Use the following conversion when the medical record reports only Clark's Level or Breslow's Depth of Invasion. (Use only for melanoma of skin, vulva, penis, and scrotum.)

Summary Stage Code	Summary Stage	Clark's Level	Breslow's Depth of Invasion	Extent of Disease
0	In situ	I	No invasion	Intraepidermal
1	Localized	II	≤ 0.75 mm	Invasion of papillary dermis
1	Localized	III	> 0.75 - ≤ 1.50 mm	Invasion of papillary-reticular dermal interface
1	Localized	IV	> 1.50 - ≤ 4.0 mm	Invasion of reticular dermis
2*	Regional extension*	V	> 4.0 mm	Invasion subcutaneous tissue (through entire dermis)

*Summary stage 1, Localized, in *Summary Stage 1977* for cases diagnosed prior to 2001.

f. Lymphomas

The staging system for lymphomas is provided below. It is based on the 1971 Ann Arbor classification and should be used for anatomic staging of Hodgkin and Non-Hodgkin lymphomas. Appendix E-1 has some tips for coding lymphomas and leukemias.

Note: The only valid Summary Stage codes for lymphomas are codes 1, 5, 7, or 9.

Example: A Stage II lymphoma is coded as Summary Stage 5, not 2.

Summary Stage Code	Summary Stage	AJCC Staging	Extent of Disease
1	Localized	I	Involvement of a single lymph node region.
1	Localized	I _E	Localized involvement of a single extralymphatic organ or site.
5	Regional	II	Involvement of two or more lymph node regions on the same side of the diaphragm.
5	Regional	II _E	Localized involvement of a single associated extralymphatic organ or site and its regional nodes with or without other lymph node regions on the same side of the diaphragm. Note: The number of lymph node regions involved may be indicated by a subscript (e.g., II ₃).
7	Distant	III	Involvement of lymph node regions on both sides of the diaphragm.
7	Distant	III _E	Involvement of lymph node regions on both sides of the diaphragm that may also be accompanied by localized involvement of an extralymphatic organ or site.
7	Distant	III _S	Involvement of lymph node regions on both sides of the diaphragm that may also be accompanied by involvement of the spleen.
7	Distant	III _{E+S}	Involvement of lymph node regions on both sides of the diaphragm that may also be accompanied by localized involvement of an extralymphatic organ or site and involvement of the spleen.
7	Distant	IV	Disseminated (multifocal) involvement of one or more extralymphatic organs with or without associated lymph node involvement, or isolated extralymphatic organ involvement with distant (non-regional) nodal involvement.
9	Unspecified	99	Unstaged, unknown, unspecified.

OVERVIEW OF COLLABORATIVE STAGE (CS) DATA COLLECTION SYSTEM

The complete instructions and site-histology defined codes are available in the current version of the *Collaborative Stage Data Collection System Coding Instructions (CS Manual)*. Part I provides general instructions and the instructions and codes for generic (non site-specific) items. Part II contains the site-specific instructions and codes. The *CS Manual* can be downloaded at:

<http://cancerstaging.org/cstage/manuals/index.html>

Collaborative Stage was designed for registrar use.

- It relieves registrars from the necessity of staging a single case according to more than one staging system.
- It avoids the problems that can occur when it is necessary to consider multiple pieces of information simultaneously to assign a single code.
- The derived stage codes are ideally suited for data analysis because of the consistency that can be obtained with objectively recorded, identically processed data items.

Effective Date

Collaborative Stage (CS) is to be used for cases diagnosed on or after January 1, 2004. It is not to be used for cases diagnosed prior to that date.

How Collaborative Stage Works

For Collaborative Stage, registrars code discrete pieces of information once and the CS computer algorithm derives the values for AJCC T, N, M, and Stage Group (for cases that meet TNM criteria); Summary Stage 1977; and Summary Stage 2000.

The CS data items listed below are coded by the registrar.

CS Tumor Size
CS Extension
CS Tumor Size/Ext Eval
CS Lymph Nodes
CS Reg Lymph Nodes Eval
Regional Lymph Nodes Examined
Regional Lymph Nodes Positive
CS Mets at DX
CS Mets Eval
CS Mets at DX – Bone
CS Mets at DX – Brain
CS Mets at DX – Liver
CS Mets at DX – Lung
CS Site-Specific Factors 1-25, for some sites

The CS Algorithm produces the output items listed below. The derived AJCC items are separate from the physician-coded items, and the derived Summary Stage items are separate from the manually coded items collected by the CoC in the past. The derived items must never be manually altered.

Derived AJCC-6 T
Derived AJCC-6 T Descriptor
Derived AJCC-6 N
Derived AJCC-6 N Descriptor
Derived AJCC-6 M
Derived AJCC-6 M Descriptor
Derived AJCC-6 Stage Group
Derived AJCC-7 T
Derived AJCC-7 T Descriptor
Derived AJCC-7 N

Derived AJCC-7 N Descriptor
Derived AJCC-7 M
Derived AJCC-7 M Descriptor
Derived AJCC-7 Stage Group
Derived SS1977
Derived SS2000

Timing of Data Collection

The data collected in the Collaborative Stage System are limited to information gathered through completion of surgery(ies) in the first course of treatment, OR all information available within four months of the date of diagnosis in the absence of disease progression, whichever is **longer**.

Disease progression is defined as further direct extension or distant metastasis known to have developed after the diagnosis was established. Information about tumor extension, lymph node involvement, or distant metastasis obtained after disease progression is documented should be excluded from the CS coding.

Coding CS Items

- a. Code the CS items for every analytic case. Read the medical record carefully to identify the primary site and histology and determine their ICD-O-3 codes. While you are reviewing the record, make mental notes about the tissues and lymph nodes that are involved by tumor.
- b. The abstractor enters the primary site and histology codes into the cancer abstracting software. A schema selection algorithm determines which schema is appropriate to each combination of primary site and histology, and if applicable, an additional schema discriminator variable.
- c. Begin assigning codes for the Collaborative Stage data items. Be sure to read the notes and follow the site/histology-specific instructions at the beginning of each item. Some schemas may have site-specific factors associated with extension, lymph nodes, or metastasis. Keep these in mind as you assign the codes.
 - Code the tumor size in the *CS Tumor Size* item.
 - Code the extent of direct tumor spread in the *CS Extension* item.
 - Code how the greatest tumor size and spread was determined in the *CS Tumor Size/Ext Eval* item.
 - Code whether regional lymph nodes are involved in the *CS Lymph Nodes* items.
 - Code how the farthest regional lymph node spread was determined in the *CS Reg Node Eval* item.
 - Code the number of positive regional lymph nodes from the pathology report in the *Regional Nodes Positive* item.
 - Code the number of regional lymph nodes examined by the pathologist in the *Regional Nodes Examined* item.
 - Code the farthest distant metastasis (including distant lymph nodes) in the *CS Mets at Dx* item.
 - Code how the distant metastasis was determined in the *CS Mets Eval* item.
 - Code whether there are metastases in the bone, brain, lung and/or liver in the appropriate *CS Mets at DX – Bone, Brain, Liver, and Lung* fields.
 - Code the *CS Site-Specific Factors* as required or applicable.
- d. When all the CS codes are completed, the computer can convert them into the T, N, M, Stage Group, Summary Stage 1977, and Summary Stage 2000. Depending on your software system, the final stage information may be derived now, when the case is saved, or prior to exiting the case. When the computer derives the final stage information, the program will check the histology code and other coded information to determine whether T, N, M and Stage Group will be generated for the case. If the histology code is on the computer's exceptions list for that site, the T, N, M, and Stage Group will be reported as "Not applicable." Summary Stage is generated for every case.

Site-Specific Factors

Some schemas require additional information to derive stage or that is considered to be of clinical or prognostic importance. *CS Site-Specific Factors 1-25* are designed to collect that information and are included in every schema where they are needed.

CS TUMOR SIZE

Item Length: 3
 Data Type: Numeric
 ACoS: Required*
 State Registry: Required*

*For cases diagnosed 01/01/2004 and later.

Description

This item records the largest dimension or diameter of the **primary tumor**, and is always recorded in millimeters.

Rationale

Tumor size at diagnosis is an independent prognostic indicator for many tumors and it is used by Collaborative Stage to derive some AJCC "T" codes.

Codes

Code	Description
000	Indicates no mass or no tumor found; e.g., when a tumor of a stated primary site is not found, but the tumor has metastasized.
001-988	Exact size in millimeters
989	989 millimeters or larger
990	Microscopic focus or foci only and no size of focus is given
991	Described as less than 1 cm
992	Described as less than 2 cm, or greater than 1 cm, or between 1 cm and 2 cm
993	Described as less than 3 cm, or greater than 2 cm, or between 2 cm and 3 cm
994	Described as less than 4 cm, or greater than 3 cm, or between 3 cm and 4 cm
995	Described as less than 5 cm, or greater than 4 cm, or between 4 cm and 5 cm
996-998	Site-Specific Codes Where Needed
999	Unknown; size not stated; not stated in patient record

Instructions

Refer to the general instructions in Part 1, Section 1 of the current *CS Manual* and the site and histology-specific instructions in Part 2 of the current *CS Manual*.

CS EXTENSION

Item Length: 3
 Data Type: Numeric
 ACoS: Required*
 State Registry: Required*

*For cases diagnosed 01/01/2004 and later.

Description

This item identifies contiguous growth (extension) of the primary tumor within the organ of origin or its direct extension into neighboring organs. For certain sites such as ovary, discontinuous metastasis is coded in *CS Extension*.

Rationale

Tumor extension at diagnosis is a prognostic indicator used by Collaborative Stage to derive some AJCC "T" codes and some SEER Summary Stage codes.

Codes

Code	Description	TNM7 Map	TNM6 Map	SS77 Map	SS2000 Map
000	In situ; non-invasive	Tis	Tis	IS	IS
	Site/Histology-Specific Codes				
800	Further contiguous extension				
950	No evidence of primary tumor	T0	T0	U	U
999	Unknown extension; primary tumor cannot be assessed; not documented in patient record	TX	TX	U	U

Instructions

Refer to the general instructions in Part 1, Section 1 of the current *CS Manual* and the site and histology-specific instructions in Part 2 of the current *CS Manual*.

CS TUMOR SIZE/EXT EVAL

Item Length: 1
 Data Type: Numeric
 ACoS: Required
 State Registry: *Required

*Required for cases diagnosed 01/01/2008 and later.

Description

In most circumstances this item records how the codes for the two items *CS Tumor Size* and *CS Extension* were determined, based on the diagnostic methods employed.

Rationale

This item is used primary to derive the staging basis for the T category in the TNM system.

Codes

Code	Description	Staging Basis
0	Does not meet criteria for AJCC pathologic staging: No surgical resection done. Evaluation based on physical examination, imaging examination, or other non-invasive clinical evidence. No autopsy evidence used.	c
1	Does not meet criteria for AJCC pathologic staging: No surgical resection done. Evaluation based on endoscopic examination, diagnostic biopsy (including fine needle aspiration biopsy), or other invasive techniques, including surgical observation without biopsy. No autopsy evidence used.	c
2	Meets criteria for AJCC pathologic staging: No surgical resection done, but evidence derived from autopsy (tumor was suspected or diagnosed prior to autopsy).	p
3	Either meets criteria for AJCC pathologic staging: Surgical resection performed without pre-surgical systemic treatment or radiation; OR surgical resection performed, unknown if pre-surgical systemic treatment or radiation performed And Evaluation based on evidence acquired before treatment, supplemented or modified by the additional evidence acquired during and from surgery, particularly from pathologic examination of the resected specimen. No surgical resection done. Evaluation based on positive biopsy of highest T classification.	p
5	Does not meet criteria for AJCC y-pathologic (yp) staging: Surgical resection performed after neoadjuvant therapy and tumor size/extension based on clinical evidence, unless the pathologic evidence at surgery (after neoadjuvant) is more extensive (see code 6).	c
6	Meets criteria for AJCC y-pathologic (yp) staging: Surgical resection performed after neoadjuvant therapy and tumor size/extension based on pathologic evidence because pathologic evidence at surgery is more extensive than clinical evidence before treatment.	yp
8	Meets criteria for autopsy (a) staging: Evidence from autopsy only (tumor was unsuspected or undiagnosed prior to autopsy).	a
9	Unknown if surgical resection done. Not assessed; cannot be assessed. Unknown if assessed. Not documented in patient record. For sites with no AJCC schema: not applicable.	c

Note: The codes in this common table do not apply to prostate. Refer to the current *CS Manual*.

Instructions

Refer to the general instructions in Part 1, Section 1 of the current *CS Manual* and the site and histology-specific instructions in Part 2 of the current *CS Manual*.

CS LYMPH NODES

Item Length: 3
 Data Type: Numeric
 ACoS: Required*
 State Registry: Required*

*For cases diagnosed 01/01/2004 and later.

Description

This item identifies the regional lymph nodes involved with cancer at the time of diagnosis.

Rationale

The involvement of specific regional lymph nodes is a prognostic indicator used by Collaborative Stage to derive some AJCC "N" codes and SEER Summary Stage codes.

Codes

Code	Description	TNM7 Map	TNM6 Map	SS77 Map	SS2000 Map
000	None; no regional lymph node involvement	N0	N0	None	None
	Site/Histology-Specific Codes				
999	Unknown; regional lymph nodes not stated; regional lymph nodes cannot be assessed; not documented in patient record	NX	NX	U	U
988	Not applicable; Information not collected for this schema				

Instructions

Refer to the general instructions in Part 1, Section 1 of the current *CS Manual* and the site and histology-specific instructions in Part 2 of the current *CS Manual*.

CS REG NODES EVAL

Item Length: 1
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For cases diagnosed 01/01/2011 and later.

Description

This item records how the code for *CS Lymph Nodes* was determined, based on the diagnostic methods employed.

Rationale

This data item is used primarily to derive the staging basis for the N category in the TNM system.

Codes

Code	Description	Staging Basis
0	Does not meet criteria for AJCC pathologic staging: No regional lymph nodes removed for examination. Evaluation based on physical examination, imaging examination, or other non-invasive clinical evidence. No autopsy evidence used.	c
1	Does not meet criteria for AJCC pathologic staging based on at least one of the following criteria: No regional lymph nodes removed for examination. Evaluation based on endoscopic examination, or other invasive techniques, including surgical observation without biopsy. No autopsy evidence used. OR Fine needle aspiration, incisional or core needle biopsy, or excisional biopsy of regional lymph nodes or sentinel nodes as part of the diagnostic workup without removal of the primary site adequate for pathologic T classification (treatment).	c
2	Meets criteria for AJCC pathologic staging: No regional lymph nodes removed for examination, but evidence derived from autopsy (tumor was suspected or diagnosed prior to autopsy).	p
3	Meets at least one of the following criteria for AJCC pathologic staging. Any microscopic assessment of regional nodes (including FNA, incisional or core needle biopsy, excisional biopsy, sentinel node biopsy or node resection) with removal of the primary site adequate for pathologic T classification (treatment) or biopsy assessment of the highest T category. OR Any microscopic assessment of a regional node in the highest N category, regardless of the T category information.	p
5	Does not meet criteria for AJCC y-pathologic (yp) staging. Regional lymph nodes removed for examination after neoadjuvant therapy and lymph node evaluation based on clinical evidence, unless the pathologic evidence at surgery (after neoadjuvant treatment) is more extensive (see code 6).	c
6	Meets criteria for AJCC y-pathologic (yp) staging. Regional lymph nodes removed for examination after neoadjuvant therapy and lymph node evaluation based on pathologic evidence, because the pathologic evidence at surgery is more extensive than clinical evidence before treatment.	y
8	Meets criteria for AJCC autopsy (a) staging. Evidence from autopsy only (tumor was unsuspected or undiagnosed prior to autopsy).	a
9	Unknown if lymph nodes removed for examination. Not assessed; cannot be assessed. Unknown if assessed. Not documented in patient record. For sites that have no AJCC staging: not applicable.	c

Instructions

Refer to the general instructions in Part 1, Section 1 of the current *CS Manual* and the site and histology-specific instructions in Part 2 of the current *CS Manual*.

CS METS AT DX

Item Length: 2
 Data Type: Numeric
 ACoS: Required*
 State Registry: Required*

*For cases diagnosed 01/01/2004 and later.

Description

This item identifies the distant site(s) of metastatic involvement at time of diagnosis. This data item represents distant metastases (The AJCC “M” component or distant stage in Summary Staging) at the time of diagnosis. In other words, when the patient was diagnosed, tumor had already spread indirectly (through vascular or lymph channels) to a site remote from the primary tumor.

The structure of this data item is based on the “M” category of AJCC. In some schemas, there may be additional items in *CS Extension* or *CS Lymph Nodes* that map to distant stage in Summary Staging (1977 and/or 2000) and there may be some items in *CS Mets at Dx* that map to regional stage in Summary Staging. Regardless of where such items are recorded, the staging algorithms will properly account for the information.

Rationale

The presence of metastatic disease at diagnosis is an independent prognostic indicator, and it is used by Collaborative Stage to derive AJCC “M” codes and SEER Summary Stage codes.

Codes

Code	Description	TNM7 Map	TNM6 Map	SS77 Map	SS2000 Map
00	No distant metastasis	M0	M0	None	None
10	Distant lymph nodes(s)	M1	M1	D	D
	Site/Histology-Specific Codes Where Needed				
40	Distant metastasis except code 10 Carcinomatosis	M1	M1	D	D
	Site/Histology-Specific Codes Where Needed				
50	(40) + (10)	M1	M1	D	D
60	Distant metastasis, NOS Stated as M1 with no other information on distant metastasis	M1	M1	D	D
99	Unknown; distant metastasis not stated; distant metastasis cannot be assessed; not documented in patient record	M0	MX	U	U
98	Not applicable for this schema				

Instructions

Refer to the general instructions in Part 1, Section 1 of the current *CS Manual* and the site and histology-specific instructions in Part 2 of the current *CS Manual*.

CS METS EVAL

Item Length: 1
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For cases diagnosed 01/01/2011 and later.

Description

This item records how the code for *CS Mets at Dx* was determined, based on the diagnostic methods employed.

Rationale

This data item is used primarily to derive the staging basis for the M category in the TNM system.

Codes

Code	Description	Staging Basis
0	Does not meet criteria for AJCC pathologic staging of distant metastasis: Evaluation of distant metastasis based on physical examination, imaging examination, and/or other non-invasive clinical evidence. No pathologic examination of metastatic tissue performed or pathologic examination was negative.	c
1	Does not meet criteria for AJCC pathologic staging of distant metastasis: Evaluation of distant metastasis based on endoscopic examination or other invasive technique, including surgical observation without biopsy. No pathologic examination of metastatic tissue performed or pathologic examination was negative.	c
2	Meets criteria for AJCC pathologic staging of distant metastasis: No pathologic examination of metastatic tissue done prior to death, but positive metastatic evidence derived from autopsy (tumor was suspected or diagnosed prior to autopsy).	p
3	Meets criteria for AJCC pathologic staging of distant metastasis: Specimen from metastatic site microscopically positive without pre-surgical systemic treatment or radiation; OR specimen from metastatic site microscopically positive, unknown if pre-surgical systemic treatment or radiation performed; OR specimen from metastatic site microscopically positive prior to neoadjuvant treatment.	p
5	Does not meet criteria for AJCC y-pathologic (yp) staging of distant metastasis: Specimen from metastatic site microscopically positive with pre-surgical systemic treatment or radiation, but metastasis based on clinical evidence.	c
6	Meets criteria for AJCC y-pathologic (yp) staging of distant metastasis: Specimen from metastatic site microscopically positive with pre-surgical systemic treatment or radiation, but metastasis based on pathologic evidence.	y
8	Meets criteria for AJCC autopsy (a) staging of distant metastasis: Evidence from autopsy based on examination of positive metastatic tissue and tumor was unsuspected or undiagnosed prior to autopsy.	a
9	Not assessed; cannot be assessed. Unknown if assessed. Not documented in patient record. For sites that have no AJCC staging: not applicable.	c

Instructions

Refer to the general instructions in Part 1, Section 1 of the current *CS Manual* and the site and histology-specific instructions in Part 2 of the current *CS Manual*.

CS METS AT DX-BONE

Item Length: 1
 Data Type: Numeric
 ACoS: Required*
 State Registry: Required*

*For cases diagnosed 01/01/2010 and later.

Description

This item identifies the presence of distant metastatic involvement of bone at the time of diagnosis.

Rationale

The presence of metastatic bone disease at diagnosis is an independent prognostic indicator.

Codes

Code	Description
0	None; no bone metastases
1	Yes
8	Not applicable (for all schemas where CS Mets at Dx is coded as 98)
9	Unknown whether bone is involved metastatic site Not documented in patient record

Instructions

Refer to the general instructions in Part 1, Section 1 of the current *CS Manual* and the site and histology-specific instructions in Part 2 of the current *CS Manual*.

CS METS AT DX-BRAIN

Item Length: 1
 Data Type: Numeric
 ACoS: Required*
 State Registry: Required*

*For cases diagnosed 01/01/2010 and later.

Description

This item identifies the presence of distant metastatic involvement of brain at the time of diagnosis.

Rationale

The presence of metastatic brain disease at diagnosis is an independent prognostic indicator.

Codes

Code	Description
0	None; no brain metastases
1	Yes
8	Not applicable (for all schemas where CS Mets at Dx is coded as 98)
9	Unknown whether brain is involved metastatic site Not documented in patient record

Instructions

Refer to the general instructions in Part 1, Section 1 of the current *CS Manual* and the site and histology-specific instructions in Part 2 of the current *CS Manual*.

CS METS AT DX-LIVER

Item Length: 1
 Data Type: Numeric
 ACoS: Required*
 State Registry: Required*

*For cases diagnosed 01/01/2010 and later.

Description

This item identifies the presence of distant metastatic involvement of liver at the time of diagnosis.

Rationale

The presence of metastatic liver disease at diagnosis is an independent prognostic indicator.

Codes

Code	Description
0	None; no liver metastases
1	Yes
8	Not applicable (for all schemas where CS Mets at Dx is coded as 98)
9	Unknown whether liver is involved metastatic site Not documented in patient record

Instructions

Refer to the general instructions in Part 1, Section 1 of the current *CS Manual* and the site and histology-specific instructions in Part 2 of the current *CS Manual*.

CS METS AT DX-LUNG

Item Length: 1
 Data Type: Numeric
 ACoS: Required*
 State Registry: Required*

*For cases diagnosed 01/01/2010 and later.

Description

This item identifies the presence of distant metastatic involvement of lung at the time of diagnosis.

Rationale

The presence of metastatic lung disease at diagnosis is an independent prognostic indicator.

Codes

Code	Description
0	None; no lung metastases
1	Yes
8	Not applicable (for all schemas where CS Mets at Dx is coded as 98)
9	Unknown whether lung is involved metastatic site Not documented in patient record

Instructions

Refer to the general instructions in Part 1, Section 1 of the current *CS Manual* and the site and histology-specific instructions in Part 2 of the current *CS Manual*.

CS SITE-SPECIFIC FACTOR 1

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For cases diagnosed 01/01/2004 and later.

Description

This item identifies information required to derive stage or considered to be of clinical or prognostic importance.

Rationale

Site-specific factors are used to record additional staging information needed by Collaborative Stage to derive AJCC TNM and/or SEER Summary Stage codes for specified site-histology schemas.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 1* to be coded for the following primary sites/histologies diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 1
LipUpper	C00.0, C00.3	Size of Lymph Nodes
LipLower	C00.1, C00.4, C00.6	Size of Lymph Nodes
LipOther	C00.2, C00.5, C00.8, C00.9	Size of Lymph Nodes
TongueBase	C01.9, C02.4	Size of Lymph Nodes
TongueAnterior	C02.0-C02.3, C02.8, C02.9	Size of Lymph Nodes
GumUpper	C03.0	Size of Lymph Nodes
GumLower	C03.1, C06.2	Size of Lymph Nodes
GumOther	C03.9	Size of Lymph Nodes
FloorMouth	C04.0-C04.1, C04.8, C04.9	Size of Lymph Nodes
PalateHard	C05.0	Size of Lymph Nodes
PalateSoft	C05.1, C05.2	Size of Lymph Nodes
MouthOther	C05.8, C05.9, C06.8, C06.9	Size of Lymph Nodes
BuccalMucosa	C06.0, C06.1	Size of Lymph Nodes
ParotidGland	C07.9	Size of Lymph Nodes
Submandibular Gland	C08.0	Size of Lymph Nodes
SalivaryGlandOther	C08.1, C08.8, C08.9	Size of Lymph Nodes
Oropharynx	C09.0, C09.1, C09.8, C09.9, C10.0, C10.2-C10.4, C10.8, C10.9	Size of Lymph Nodes
EpiglottisAnterior	C10.1	Size of Lymph Nodes
Nasopharynx (includes pharyngeal tonsil)	C11.0-C11.3, C11.8, C11.9	Size of Lymph Nodes
Hypopharynx	C12.9, C13.0-C13.2, C13.8, C13.9	Size of Lymph Nodes
NasalCavity	C30.0	Size of Lymph Nodes
SinusMaxillary	C31.0	Size of Lymph Nodes
SinusEthmoid	C31.1	Size of Lymph Nodes
LarynxGlottic	C32.0	Size of Lymph Nodes
LarynxSupraglottic	C32.1	Size of Lymph Nodes
LarynxSubglottic	C32.2	Size of Lymph Nodes
LarynxOther	C32.3, C32.8, C32.9	Size of Lymph Nodes
Esophagus	C15.0-5,8,9	Clinical Assessment of Regional Lymph Nodes
EsophagusGE Junction	C16.0-2	Clinical Assessment of Regional Lymph Nodes

CS Schema	Sites	Site-Specific Factor 1
Stomach	C16.1-6,8,9	Clinical Assessment of Regional Lymph Nodes
NETStomach	C16.0-6,8,9	Clinical Assessment of Regional Lymph Nodes
Lung	C34.0-3,8,9	Separate Tumor Nodules/Ipsilateral Lung
Pleura	C38.4	Pleural Effusion
MelanomaSkin	C44.0-9; C51.0-2,8,9; C60.0-2,8,9; C63.2	Measured Thickness (Depth), Breslow Measurement
SoftTissue	C47.0-6,8,9; C49.0-6,8,9	Grade for Sarcomas
Retroperitoneum	C48.0	Grade for Sarcomas
Peritoneum	C48.1-2, 8	Grade for Sarcomas
Breast	C50.0-6,8,9	Estrogen Receptor (ER) Assay
Placenta	C58.9	Prognostic Scoring Index
Prostate	C61.9	Prostate Specific Antigen (PSA) Lab Value
Retinoblastoma	C69.0-5,8,9	Extension Evaluated at Enucleation
Conjunctiva	C69.0	Tumor Size
Melanoma Conjunctiva	C69.0	Measured Thickness (Depth)
Brain	C70.0; C71.0-9	WHO Grade Classification
CNSOther	C70.1; C72.0-5,8,9	WHO Grade Classification
IntracranialGland	C75.1-3	WHO Grade Classification
Mycosis Fungoides	C44.0-9; C51.0-2,8,9; C60.0-2,8,9; C63.2	Peripheral Blood Involvement

CS SITE-SPECIFIC FACTOR 2

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For cases diagnosed 01/01/2004 and later.

Description

This item identifies information required to derive stage or considered to be of clinical or prognostic importance.

Rationale

Site-specific factors are used to record additional staging information needed by Collaborative Stage to derive AJCC TNM and/or SEER Summary Stage codes for specified site-histology schemas.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 2* to be coded for the following primary sites/histologies diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 2
Colon	C18.0,2-9	Clinical Assessment of Regional Lymph Nodes
NETColon	C18.0,2-9	Clinical Assessment of Regional Lymph Nodes
Appendix	C18.1	Clinical Assessment of Regional Lymph Nodes
CarcinoidAppendix	C18.1	Clinical Assessment of Regional Lymph Nodes
Rectum	C19.9, C20.9	Clinical Assessment of Regional Lymph Nodes
NETRectum	C19.9, C20.9	Clinical Assessment of Regional Lymph Nodes
Small Intestine	C17.0-3,8,9	Clinical Assessment of Regional Lymph Nodes
MelanomaSkin	C44.0-9; C51.0-2,8,9; C60.0-2,8,9; C63.2	Ulceration
Breast	C50.0-6,8,9	Progesterone Receptor (PR) Assay
Corpus Adenosarcoma	C54.0-3,8,9; C55.9	Peritoneal Cytology
CorpusCarcinoma	C54.0-3,8,9; C55.9	Peritoneal Cytology
CorpusSarcoma	C54.0-3,8,9; C55.9	Peritoneal Cytology
Bladder	C67.0-9	Size of Metastasis in Lymph Nodes
Lymphoma OcularAdnexa	C44.1; C69.0,5,6	Systemic Symptoms at Diagnosis
Melanoma Conjunctiva	C69.0	Quadrants
MelanomaChoroid	C69.3	Measured Basal Diameter
MelanomaCiliary Body	C69.4	Measured Basal Diameter
Lymphoma	C00.00-C68.9; C70.0-C80.9	Systemic Symptoms at Diagnosis

CS SITE-SPECIFIC FACTOR 3

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For cases diagnosed 01/01/2004 and later.

Description

This item identifies information required to derive stage or considered to be of clinical or prognostic importance.

Rationale

Site-specific factors are used to record additional staging information needed by Collaborative Stage to derive AJCC TNM and/or SEER Summary Stage codes for specified site-histology schemas.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 3* to be coded for the following primary sites/histologies diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 3
MelanomaSkin	C44.0-9; C51.0-2,8,9; C60.0-2,8,9; C63.2	Clinical Status of Lymph Node Mets
MerkelCellSkin	C44.0,2-9	Clinical Status of Lymph Node Mets
MerkelCellVulva	C51.0-2,8,9	Clinical Status of Lymph Node Mets
MerkelCellPenis	C60.0-2,8,9	Clinical Status of Lymph Node Mets
MerkelCellScrotum	C63.2	Clinical Status of Lymph Node Mets
Breast	C50.0-6,8,9	Number of Positive Ipsilateral Level I-II Axillary Lymph Nodes
Prostate	C61.9	CS Extension - Pathologic Extension
MelanomaChoroid	C69.3	Measured Thickness (Depth)
MelanomaCiliary Body	C69.4	Measured Thickness (Depth)

CS SITE-SPECIFIC FACTOR 4

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: *Required

*For sites listed below diagnosed 01/01/2011 and later.

Description

This item identifies information required to derive stage or considered to be of clinical or prognostic importance.

Rationale

Site-specific factors are used to record additional staging information needed by Collaborative Stage to derive AJCC TNM and/or SEER Summary Stage codes for specified site-histology schemas.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 4* to be coded for the following primary sites/histologies diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 4
MelanomaSkin	C44.0-9; C51.0-2,8,9; C60.0-2,8,9; C63.2	LDH
Breast	C50.0-6,8,9	Immunohistochemistry (IHC) of Regional Lymph Nodes
Testis	C62.0-1,9	Radical Orchiectomy Performed
MelanomaChoroid	C69.3	Size of Largest Metastasis
MelanomaIris	C69.4 (Iris)	Size of Largest Metastasis
MelanomaCiliary Body	C69.4	Size of Largest Metastasis

CS SITE-SPECIFIC FACTOR 5

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For sites listed below diagnosed 01/01/2011 and later.

Description

This item identifies information required to derive stage or considered to be of clinical or prognostic importance.

Rationale

Site-specific factors are used to record additional staging information needed by Collaborative Stage to derive AJCC TNM and/or SEER Summary Stage codes for specified site-histology schemas.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 5* to be coded for the following primary sites/histologies diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 5
GISTPeritoneum	C48.0-2, 8	Mitotic Count
Breast	C50.0-6,8,9	Molecular Studies of Regional Lymph Nodes
Testis	C62.0-1,9	Size of Metastasis in Lymph Nodes

CS SITE-SPECIFIC FACTOR 6

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For sites listed below diagnosed 01/01/2011 and later.

Description

This item identifies information required to derive stage or considered to be of clinical or prognostic importance.

Rationale

Site-specific factors are used to record additional staging information needed by Collaborative Stage to derive AJCC TNM and/or SEER Summary Stage codes for specified site-histology schemas.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 6* to be coded for the following primary sites/histologies diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 6
GISTEsophagus	C15.0-5,8,9	Mitotic Count
GISTStomach	C16.0-6,8,9	Mitotic Count
GISTSmall Intestine	C17.0-3,8,9	Mitotic Count
SkinEyelid	C44.1	Perineural Invasion

CS SITE-SPECIFIC FACTOR 7

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

*For sites listed below diagnosed 01/01/2011 and later.

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Rationale

Site-specific factors are used to record additional staging information needed by Collaborative Stage to derive AJCC TNM and/or SEER Summary Stage codes for specified site-histology schemas.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 7* to be coded for the following primary sites/histologies diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 7
MelanomaSkin	C44.0-9; C51.0-2,8,9; C60.0-2,8,9; C63.2	Primary Tumor Mitotic Count/Rate

CS SITE-SPECIFIC FACTOR 8

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For breast cases diagnosed 01/01/2010 and later.
 *For prostate cases diagnosed 01/01/2011 and later.

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 8* to be coded for the following primary sites/histologies diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 8
Breast	C50.0-6,8,9	HER2: IHC Test Lab Value
Prostate	C61.9	Gleason Score on Needle Core Biopsy/TURP

CS SITE-SPECIFIC FACTOR 9

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For breast cases diagnosed 01/01/2010 and later.
 *For testis cases diagnosed 01/01/2011 and later.

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 9* to be coded for the following primary sites/histologies diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 9
Breast	C50.0-6,8,9	HER2: IHC Test Interpretation

CS SITE-SPECIFIC FACTOR 10

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For breast cases diagnosed 01/01/2010 and later.

*For other sites listed below diagnosed 01/01/2011 and later.

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 10* to be coded for the following primary sites/histologies or diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 10
BileDucts Intrahepat	C22.0-1	Tumor Growth Pattern
GIST Peritoneum	C48.0-2,8	Location of Primary Tumor
Prostate	C61.9	Gleason Score on Prostatectomy/Autopsy

CS SITE-SPECIFIC FACTOR 11

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For breast cases diagnosed 01/01/2010 and later.

*For other sites listed below diagnosed 01/01/2011 and later.

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 11* to be coded for the following primary sites/histologies diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 11
GISTColon	C18.0,2-9	Mitotic Count
Appendix	C18.1	Histopathologic Grading
GISTAppendix	C18.1	Mitotic Count
GISTRectum	C19.9; C20.9	Mitotic Count
Breast	C50.0-6,8,9	HER2: FISH Test Interpretation
Vulva	C51.0-2,8,9	Regional Lymph Node - Laterality
MerkelCellVulva	C51.0-2,8,9	Regional Lymph Node - Laterality

CS SITE-SPECIFIC FACTOR 12

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For breast cases diagnosed 01/01/2010 and later.

*For skin cases defined below diagnosed 01/01/2011 and later.

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 12* to be coded for the following primary sites/histologies diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 12
Skin	C44.0,2-9	High Risk Features
Scrotum	C63.2	High Risk Features

CS SITE-SPECIFIC FACTOR 13

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For breast cases diagnosed 01/01/2010 and later.

*For testis diagnosed 01/01/2011 and later.

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 13* to be coded for the following primary sites/histologies diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 13
Breast	C50.0-6,8,9	HER2: CISH Test Interpretation
Testis	C62.0-1,9	Post-orchietomy Alpha Fetoprotein (AFP) Range

CS SITE-SPECIFIC FACTOR 14

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For breast cases diagnosed 01/01/2010 and later.

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 14* to be coded for the following primary sites/histologies diagnosed in 2010 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 14
Breast	C50.0-6,8,9	HER2: Result of Other or Unknown Test

CS SITE-SPECIFIC FACTOR 15

Item Length: 3
 Data Type: Numeric
 ACoS: Required*
 State Registry: Required*

*For sites listed below diagnosed 01/01/2011 and later.

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 15* to be coded for the following primary sites/histologies or diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 15
Breast	C50.0-6,8,9	HER2: Summary Result of Testing
Testis	C62.0-1,9	Post-orchietomy Human Chorionic Gonadotropin (hCG) Range

CS SITE-SPECIFIC FACTOR 16

Item Length: 3
 Data Type: Numeric
 ACoS: Required*
 State Registry: Required*

*For sites listed below diagnosed 01/01/2011 and later.

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 16* to be coded for the following primary sites/histologies diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 16
Skin	C44.0,2-9	Size of Lymph Nodes
Breast	C50.0-6,8,9	Combinations of ER, PR, and HER2 Results
Testis	C62.0-1,9	Post-orchietomy Lactate Dehydrogenase (LDH) Range
Scrotum	C63.2	Size of Lymph Nodes

CS SITE-SPECIFIC FACTOR 17

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For sites listed below diagnosed 01/01/2011 and later.

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. The State Registry requires *Site-Specific Factor 17* to be coded for the following primary sites/histologies diagnosed in 2011 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 17
Penis	C60.0-2,8,9	Extranodal Extension of Regional Lymph Nodes

CS SITE-SPECIFIC FACTOR 18

Item Length: 3
Data Type: Numeric
ACoS: Required*
State Registry: Optional

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. *Site-Specific Factor 18* is optional for reporting to the State Registry.

CS SITE-SPECIFIC FACTOR 19

Item Length: 3
Data Type: Numeric
ACoS: Required*
State Registry: Optional

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. *Site-Specific Factor 19* is optional for reporting to the State Registry.

CS SITE-SPECIFIC FACTOR 20

Item Length: 3
Data Type: Numeric
ACoS: Required*
State Registry: Optional

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. *Site-Specific Factor 20* is optional for reporting to the State Registry.

CS SITE-SPECIFIC FACTOR 21

Item Length: 3
Data Type: Numeric
ACoS: Required*
State Registry: Optional

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. *Site-Specific Factor 21* is optional for reporting to the State Registry.

CS SITE-SPECIFIC FACTOR 22

Item Length: 3
Data Type: Numeric
ACoS: Required*
State Registry: Optional

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. *Site-Specific Factor 22* is optional for reporting to the State Registry.

CS SITE-SPECIFIC FACTOR 23

Item Length: 3
Data Type: Numeric
ACoS: Required*
State Registry: Optional

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. *Site-Specific Factor 23* is optional for reporting to the State Registry.

CS SITE-SPECIFIC FACTOR 24

Item Length: 3
Data Type: Numeric
ACoS: Required*
State Registry: Optional

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Instructions

- a. Refer to site/histology-specific instructions and codes in the current version of the *CS Manual*.
- b. *Site-Specific Factor 24* is optional for reporting to the State Registry.

CS SITE-SPECIFIC FACTOR 25

Item Length: 3
 Data Type: Numeric
 ACoS: Required
 State Registry: Required*

*For sites listed below diagnosed 01/01/2010 and later.

Description

This item identifies additional information that is necessary to derive stage or is considered to be of clinical or prognostic importance.

Rational

CS Site-Specific Factor 25 is used to discriminate between CS staging schema or between AJCC chapters where site and histology alone are insufficient to identify the tumor type or location to identify the applicable staging method. Use of this item is limited to specific subsites and histologies as shown below.

Instructions

- a. Refer to the site and histology-specific instructions in the current *CS Manual* for coding instructions.
- b. The State Registry requires *Site-Specific Factor 25* to be coded for the following primary sites/histologies diagnosed in 2010 or later. See the site-specific schemas for acceptable codes and their definitions.

CS Schema	Sites	Site-Specific Factor 25
Nasopharynx	C11.1	Schema Discriminator: Nasopharynx/PharyngealTonsil
PharyngealTonsil	C11.1	Schema Discriminator: Nasopharynx/PharyngealTonsil
EsophagusGE Junction	C16.1-2	Schema Discriminator: EsophagusGE Junction (EGJ)/Stomach
Stomach	C16.1-2	Schema Discriminator: EsophagusGE Junction (EGJ)/Stomach
Cystic Duct	C24.0	Schema Discriminator: Subsite of Extrahepatic Bile Ducts
BileDuctsPerihilar	C24.0	Schema Discriminator: Subsite of Extrahepatic Bile Ducts
BileDuctsDistal	C24.0	Schema Discriminator: Subsite of Extrahepatic Bile Ducts
GISTPeritoneum	C48.1	Location of Primary Tumor
Peritoneum	C48.1-2,8	Schema Discriminator: Peritoneum/PeritoneumFemaleGen
PeritoneumFemaleGen	C48.1-2,8	Schema Discriminator: Peritoneum/PeritoneumFemaleGen
MelanomaCiliary Body	C69.4	Schema Discriminator: Melanoma Ciliary Body/Melanoma Iris
MelanomaIris	C69.4 (Iris)	Schema Discriminator: Melanoma Ciliary Body/Melanoma Iris
Lacrimal Gland	C69.5	Schema Discriminator: Lacrimal Gland/Lacrimal Sac
Lacrimal Sac	C69.5	Schema Discriminator: Lacrimal Gland/Lacrimal Sac

DERIVED AJCC-6 ITEMSACoS: Autocoded*
State Registry: Autocoded*

*For cases diagnosed 01/01/2004 and later.**Description**

The AJCC-6 staging elements listed below are derived from coded fields using the CS algorithms.

Derived AJCC-6 T
Derived AJCC-6 T Descriptor
Derived AJCC-6 N
Derived AJCC-6 N Descriptor
Derived AJCC-6 M
Derived AJCC-6 M Descriptor
Derived AJCC-6 Stage Group

Instructions

- a. These data items are autocoded and are not recorded by registry staff.
- b. Refer to the applicable *AJCC Cancer Staging Manual* for item descriptions.

DERIVED AJCC-7 ITEMSACoS: Autocoded*
State Registry: Autocoded*

*For cases diagnosed 01/01/2004 and later.**Description**

The AJCC-7 staging elements listed below are derived from coded fields using the CS algorithms.

Derived AJCC-7 T
Derived AJCC-7 T Descriptor
Derived AJCC-7 N
Derived AJCC-7 N Descriptor
Derived AJCC-7 M
Derived AJCC-7 M Descriptor
Derived AJCC-7 Stage Group

Instructions

- a. These data items are autocoded and are not recorded by registry staff.
- b. Refer to the applicable *AJCC Cancer Staging Manual* for item descriptions.

DERIVED SS1977

Item Length: 1
 Data Type: Numeric
 ACoS: Autocoded*
 State Registry: Autocoded*

*For cases diagnosed 01/01/2004 and later.

Description

This item is the “SEER Summary Stage 1977” derived using the CS algorithm.

Rationale

Collaborative Stage (CS) was developed to provide a single uniform set of codes and rules for coding the elements necessary to derive “best stage” for the major staging systems in current use. Derived SS1977 can be used to evaluate patterns of disease spread at diagnosis, track treatment patterns, and analyze outcomes.

Instructions

Refer to the *SEER Summary Staging Manual, 1977* for site-specific categories.

Code	Description
0	In situ
1	Localized
2	Regional, direct extension only
3	Regional, regional lymph nodes only
4	Regional, direct extension and regional lymph nodes
5	Regional, NOS
7	Distant metastases/systemic disease
9	Unstaged, unknown, or unspecified
(leave blank)	Not derived

DERIVED SS2000

Item Length: 1
 Data Type: Numeric
 ACoS: Autocoded*
 State Registry: Autocoded*

*For cases diagnosed 01/01/2004 and later.

Description

This item is the "SEER Summary Stage 2000" derived using the CS algorithm.

Rationale

Collaborative Stage (CS) was developed to provide a single uniform set of codes and rules for coding the elements necessary to derive "best stage" for the major staging systems in current use. Derived SS2000 can be used to evaluate disease spread at diagnosis, plan and track treatment patterns, and analyze outcomes.

Instructions

Refer to the *SEER Summary Staging Manual, 2000* for site-specific categories.

Code	Description
0	In situ
1	Localized
2	Regional, direct extension only
3	Regional, regional lymph nodes only
4	Regional, direct extension and regional lymph nodes
5	Regional, NOS
7	Distant metastases/systemic disease
9	Unstaged, unknown, or unspecified
(leave blank)	Not derived

SUBSTANTIATE STAGING
RMCDs Item: Staging

 Data Type: Text
 ACoS: N/A
 State Registry: Required

Description

This is a required text field in the paper and RMCDs abstracts for recording a narrative description of information that substantiates the Summary Stage or the Collaborative Stage (CS) data items, as applicable. It is not sufficient to merely code the items. The information from the medical record supporting the codes must be recorded. Facilities using other types of registry software should follow their vendor's instructions for recording text that substantiates staging.

Instructions

- a. Identify the specific evidence in the medical record that justifies the staging and record the evidence briefly, in this field. Standard abbreviations can be used to save space. It is not necessary to repeat information documented in other text fields.

Examples:

<u>Staging</u>	<u>Text</u>
Summary Stage 4	Small cell carcinoma of the rt. lung with extension to the pericardium and mets to 3 of 4 hilar lymph nodes.
Summary Stage 1	Poorly differentiated adenocarcinoma of the sigmoid colon with invasion through the muscularis propria. LN neg.
Summary Stage 7	Mucinous cystadenocarcinoma of the rt. ovary with extension to the small intestine.
Summary Stage 5	Diffuse, histiocytic malignant lymphoma of the cervical and mediastinal lymph node regions. Bone marrow free of disease.
CS Tumor Size: 005 CS Extension: 30 CS Lymph Nodes: 00 CS Reg LN Pos: 00 CS Reg LN Exam: 20 CS Mets at DX: 00 CS Site-specific Factor 1: 120 CS Site-specific Factor 2: 000	5 mm melanoma, 1.2 mm thick, no ulceration, 20 neg. LN, remainder of physical exam negative

- b. Use this field to clarify any coding that is vague (e.g., specific metastatic site coded as a "9") or to justify any coding that requires the coder to override an edit error message (e.g., metastatic site coding that is consistent with AJCC staging but inconsistent with Summary Stage).
- c. Document any unresolved discrepancies between physician and registry staging decisions.
- d. Facilities using the paper abstract to report should also attach copies of medical record documentation (such as the pathology and operative reports) that substantiates the extent of disease. However, text that substantiates the staging must be completed by all reporting facilities.

GENERAL RULES FOR TNM STAGING

The TNM (Tumor, Nodes, Metastasis) staging items are required when available for State reporting, effective for cases diagnosed 01/01/2014 and later. Facilities should refer to the current *AJCC Manual for Staging of Cancer* for staging rules.

ACoS Requirements

Hospitals with cancer programs approved by the American College of Surgeons (ACoS) must record pathologic or clinical classifications of TNM and stage group in order to meet ACoS approval standards.

In October 1981, the Commission on Cancer resolved that the staging system of the American Joint Committee on Cancer (AJCC) would be used in all approved cancer programs. The AJCC developed its staging system for evaluating trends in the treatment and control of cancer. This staging is used by physicians to estimate prognosis, plan treatment, evaluate new types of therapy, analyze outcome, design follow-up strategies, and assess early detection results.

In 1982, breast cancer was the first site implemented. Effective January 1991, ACoS required AJCC TNM staging for all required (analytic) cases that had a staging scheme in the *AJCC Manual for Staging of Cancer*, Third Edition. The Commission has since published the fourth, fifth, sixth, and seventh editions of the manual. The effective dates for the various editions are listed below.

AJCC Second Edition:	Effective for cases diagnosed in <u>1988 or earlier</u> .
AJCC Third Edition:	Effective for cases diagnosed from <u>1989 through 1992</u> .
AJCC Fourth Edition:	Effective for cases diagnosed from <u>1993 through 1997</u> .
AJCC Fifth Edition:	Effective for cases diagnosed from <u>1998 through 2002</u> .
AJCC Sixth Edition:	Effective for cases diagnosed in <u>2003 through 2009</u> .
AJCC Seventh Edition:	Effective for cases diagnosed <u>2010 and later</u> .

AJCC Staging System

The TNM system for describing the anatomic extent of disease is based on the assessment of three components:

- T = The extent of the primary **tumor**
- N = The absence or presence and extent of regional lymph **node** metastasis
- M = The absence or presence of **distant metastasis**

The TNM elements are defined for specific anatomic sites and/or histologic types in the *AJCC Cancer Staging Manual*. These elements should be recorded on a staging form or in the medical record.

Refer to the *AJCC Cancer Staging Manual* and review Chapter 1, "Purposes and Principles of Staging" and the rules in each of the site-specific chapters. Each site-specific chapter outlines the site(s) and histologies that are included in the chapter.

Definitions

- a. Clinical (pretreatment) stage is based on information and evidence obtained before treatment. Symptoms, physical examination, imaging, endoscopy, biopsy, surgical exploration (without resection), and other relevant findings are the basis of clinical staging. Clinical stage of disease is assigned using all information available before initiation of definitive treatment or within four months after the date of diagnosis, whichever is shorter, as long as the cancer has not progressed during that time frame. The clinical stage is essential to select and evaluate therapy.
- b. Pathologic stage is based on information obtained before treatment and supplemented by additional evidence from surgery and pathologic examination of the resected specimen(s). Pathologic stage of disease is assigned using all information though completion of definitive (first course) surgery or identified within four months after the date of diagnosis, whichever is longer, as long as there is no

systemic or radiation therapy initiated or the cancer has not progressed during that time frame. It is a combination of all findings. The pathologic stage provides the most precise data to estimate prognosis. Pathologic assessment of the primary tumor requires a resection of the primary tumor or a biopsy adequate to evaluate the highest pT (pathologic Tumor) category. The pathologic assessment of the regional lymph nodes requires the removal of enough nodes to confirm the absence of regional lymph node metastasis and evaluate the highest pN (pathologic Nodes) category.

General Instructions

- a. Locate the specific site in the AJCC manual for the assignment of TNM elements.
- b. When AJCC staging does not apply to a particular site or histology because they have been excluded from the *AJCC Cancer Staging Manual*, record 88 in the T, N, M, and Stage Group fields.
- c. When the primary site is unknown, staging may be based on clinical suspicion of the site of origin. If no suspected site of origin is identified, record 88 in the T, N, M, and Stage Group fields.

CLINICAL T

Item Length: 4
 Data Type: Alphanumeric
 Left Justified, Blank Fill
 ACoS: Required
 State Registry: *Required

*Data item added for cases diagnosed 01/01/2014 or later, when available.

Description

This is a required (when available) 4-character field to record a code for the clinical T classification. The clinical T evaluates only the primary tumor and reflects tumor size and/or extension prior to the start of any therapy.

Definitions

The following general definitions are used throughout the TNM classification:

T0 No evidence of a primary tumor
 Tis Carcinoma in situ
 T1, T2, T3, and T4 describe increasing size and/or local extension of the primary tumor
 TX Primary tumor cannot be assessed (use of TX should be minimized)

Codes

X = TX	2A1 = T2a1
0 = T0	2A2 = T2a2
A = Ta	2B = T2b
IS = Tis	2C = T2c
ISPU = Tispu	2D = T2d
ISPD = Tispd	3 = T3
1MI = T1mi, T1mic	3A = T3a
1 = T1	3B = T3b
1A = T1a	3C = T3c
1A1 = T1a1	3D = T3d
1A2 = T1a2	4 = T4
1B = T1b	4A = T4a
1B1 = T1b1	4B = T4b
1B2 = T1b2	4C = T4c
1C = T1c	4D = T4d
1D = T1d	4E = T4e
2 = T2	88 = Not applicable (no AJCC staging scheme)
2A = T2a	Blank = Not recorded

Instructions

- Record the code for the clinical T documented by the first treating physician or the managing physician.
- If the managing physician has not recorded clinical T, registrars may code this item based on the best available information.
- If the value does not fill all 4 characters, record the value to the left and leave the remaining spaces blank.
- For lung, occult carcinoma is coded TX.
- Refer to the current *AJCC Cancer Staging Manual* for staging rules.

CLINICAL N

Item Length: 4
 Data Type: Alphanumeric
 Left Justified, Blank Fill
 ACoS: Required
 State Registry: *Required

*Data item added for cases diagnosed 01/01/2014 or later, when available.

Description

This is a required (when available) 4-character field to record a code for the clinical N classification. The clinical N identifies the absence or presence of regional lymph node metastases and describes the extent of regional lymph node metastases prior to the start of any therapy.

Definitions

The following general definitions are used throughout the TNM classification:

N0 No regional lymph node metastasis

N1, N2, N3, and N4 describe increasing number or extent of regional lymph node involvement

NX Regional lymph nodes cannot be assessed (use of NX should be minimized)

Codes

X = NX	1C = N1c
0 = N0	2 = N2
0I- = N0i-	2A = N2a
0I+ = N0i+	2B = N2b
0M- = N0m-	2C = N2c
0M+ = N0m+	3 = N3
1MI = N1mi	3A = N3a
0A = N0a	3B = N3b
0B = N0b	3C = N3c
1 = N1	4 = N4
1A = N1a	88 = Not applicable (no AJCC staging scheme)
1B = N1b	Blank = Not recorded

Instructions

- Record the code for the clinical N documented by the first treating physician or the managing physician.
- If the managing physician has not recorded clinical N, registrars may code this item based on the best available information.
- If the value does not fill all 4 characters, record the value to the left and leave the remaining spaces blank.
- Refer to the current *AJCC Cancer Staging Manual* for staging rules.

CLINICAL M

Item Length: 4
Data Type: Alphanumeric
Left Justified, Blank Fill
ACoS: Required
State Registry: *Required

*Data item added for cases diagnosed 01/01/2014 or later, when available.

Description

This is a required (when available) 4-character field to record a code for the clinical M classification. The clinical M records the presence or absence of distant metastases known prior to the start of any therapy.

Definitions

The following general definitions are used throughout the TNM classification:

M0 No distant metastasis

M1 Distant metastases are present

Codes

X = MX (AJCC editions 1-6 only)

0 = M0

0I+ = M0(i+)

1 = M1

1A = M1a

1B = M1b

1C = M1c

1D = M1d

1E = M1e

88 = Not applicable (no AJCC staging scheme)

blank = Not recorded

Instructions

- a. Record the code for the clinical M documented by the first treating physician or the managing physician.
- b. If the managing physician has not recorded clinical M, registrars may code this item based on the best available information.
- c. If the value does not fill all 4 characters, record the value to the left and leave the remaining spaces blank.
- d. Refer to the current *AJCC Cancer Staging Manual* for staging rules.
- e. When a patient with multiple primaries develops metastases, a biopsy may distinguish the source of distant disease. Stage both primaries as having metastatic disease if the physician is unable to conclude which primary has metastasized. If the physician later identifies which primary has metastasized, update the stage(s) as appropriate.

CLINICAL STAGE GROUP

Item Length: 4
 Data Type: Alphanumeric
 Left Justified, Blank Fill
 ACoS: Required
 State Registry: *Required

*Data item added for cases diagnosed 01/01/2014 or later, when available.

Description

This is a required (when available) 4-character field for recording a code that condenses the clinical T, N, and M elements into categories for purposes of tabulation and analysis. It defines the anatomic extent of disease based on the previously coded T, N, and M elements.

The TNM (Tumor, Nodes, Metastasis) Stage Grouping codes are from the *AJCC Cancer Staging Manual*. Efforts should be made to capture this information on a staging form or in the medical record.

Codes

0 = Stage 0	2C = Stage IIC
0A = Stage 0A	3 = Stage III
0IS = Stage 0is	3A = Stage IIIA
1 = Stage I	3B = Stage IIIB
1A = Stage IA	3C = Stage IIIC
A1 = Stage T1A1	3C1 = Stage IIIC1
A2 = Stage T1A2	3C2 = Stage IIIC2
1B = Stage T1B	4 = Stage IV
B1 = Stage T1B1	4A = Stage IVA
B2 = Stage T1B2	4A1 = Stage IVA1
1C = Stage IC	4A2 = Stage IVA2
1S = Stage IS	4B = Stage IVB
2 = Stage II	4C = Stage IVC
2A = Stage IIA	OC = Occult
2A1 = Stage IIA1	88 = Not applicable
2A2 = Stage IIA2	99 = Unknown
2B = Stage IIB	

Instructions

- Record the code for the clinical stage group documented by the first treating physician or the managing physician.
- If the managing physician has not recorded clinical stage group, registrars may code this item based on the best available information.
- If the value does not fill all 4 characters, record the value to the left and leave the remaining spaces blank.
- Convert all Roman numerals to Arabic numerals and use upper-case (capital letters) only.

Example 1: Stage IV converts to stage 4.

Example 2: Stage IIA converts to stage 2A.

- Refer to the current *AJCC Cancer Staging Manual* for staging rules.

CLINICAL STAGE (PREFIX/SUFFIX) DESCRIPTOR

Item Length: 1
 Data Type: Numeric
 ACoS: Required
 State Registry: *Required

*Data item added for cases diagnosed 01/01/2014 or later, when available.

Description

This is a required (when available) 1-character field for coding the AJCC clinical stage (prefix/suffix) descriptor of the tumor prior to the start of any therapy. Stage descriptors identify special cases that need separate analysis. The descriptors do not change the stage group.

Codes

Code	Label	Description
0	None	There are no prefix or suffix descriptors that would be used for this case.
1	E: Extranodal, lymphomas only	A lymphoma case involving an extranodal site.
2	S: Spleen, lymphomas only	A lymphoma case involving the spleen.
3	M: Multiple primary tumors in a single site	This is one primary with multiple tumors in the primary site at the time diagnosis.
5	E&S: Extranodal and spleen, lymphomas only	A lymphoma case with involvement of both an extranodal site and the spleen.
9	Unknown; not stated in patient record	A prefix or suffix would describe this stage, but it is not known which would be correct.

Instructions

- Record the code for the clinical stage (prefix/suffix) descriptor as documented by the first treating physician or the managing physician in the medical record.
- If the managing physician has not documented the descriptor, registrars may code this item based on the best available information.
- Refer to the current *AJCC Cancer Staging Manual* for staging rules.

PATHOLOGIC T

Item Length: 4
 Data Type: Alphanumeric
 Left Justified, Blank Fill
 ACoS: Required
 State Registry: *Required

*Data item added for cases diagnosed 01/01/2014 or later, when available.

Description

This is a required (when available) 4-character field for recording a code for the pathologic T classification. The pathologic T evaluates only the primary tumor and reflects tumor size and/or extension.

Definitions

The following general definitions are used throughout the TNM classification:

T0 No evidence of a primary tumor
 Tis Carcinoma in situ
 T1, T2, T3, and T4 describe increasing size and/or local extension of the primary tumor
 TX Primary tumor cannot be assessed (use of TX should be minimized)

Codes

X = TX	2A1 = T2a1
0 = T0	2A2 = T2a2
A = Ta	2B = T2b
IS = Tis	2C = T2c
ISPU = Tispu	2D = T2d
ISPD = Tispd	3 = T3
1MI = T1mi, T1mic	3A = T3a
1 = T1	3B = T3b
1A = T1a	3C = T3c
1A1 = T1a1	3D = T3d
1A2 = T1a2	4 = T4
1B = T1b	4A = T4a
1B1 = T1b1	4B = T4b
1B2 = T1b2	4C = T4c
1C = T1c	4D = T4d
1D = T1d	4E = T4e
2 = T2	88 = Not applicable (no AJCC staging scheme)
2A = T2a	Blank = Not recorded

Instructions

- Record the code for the pathologic T documented by the first treating physician or the managing physician.
- If the managing physician has not recorded pathologic T, registrars may code this item based on the best available information.
- If the value does not fill all 4 characters, record the value to the left and leave the remaining spaces blank.
- For lung, occult carcinoma is coded TX.
- Refer to the current *AJCC Cancer Staging Manual* for staging rules.

PATHOLOGIC N

Item Length: 4
 Data Type: Alphanumeric
 Left Justified, Blank Fill
 ACoS: Required
 State Registry: *Required

*Data item added for cases diagnosed 01/01/2014 or later, when available.

Description

This is a required (when available) 4-character field to record a code for the pathologic N classification. The pathologic N identifies the absence or presence of regional lymph node metastases and describes the extent of regional lymph node metastases.

Definitions

The following general definitions are used throughout the TNM classification:

N0 No regional lymph node metastasis

N1, N2, N3, and N4 describe increasing number or extent of regional lymph node involvement

NX Regional lymph nodes cannot be assessed (use of NX should be minimized)

Codes

X = NX	1C = N1c
0 = N0	2 = N2
0I- = N0i-	2A = N2a
0I+ = N0i+	2B = N2b
0M- = N0m-	2C = N2c
0M+ = N0m+	3 = N3
1MI = N1mi	3A = N3a
0A = N0a	3B = N3b
0B = N0b	3C = N3c
1 = N1	4 = N4
1A = N1a	88 = Not applicable (no AJCC staging scheme)
1B = N1b	Blank = Not recorded

Instructions

- Record the code for the pathologic N documented by the first treating physician or the managing physician.
- If the managing physician has not recorded pathologic N, registrars may code this item based on the best available information.
- If the value does not fill all 4 characters, record the value to the left and leave the remaining spaces blank.
- Refer to the current *AJCC Cancer Staging Manual* for staging rules.

PATHOLOGIC M

Item Length: 4
Data Type: Alphanumeric
Left Justified, Blank Fill
ACoS: Required
State Registry: *Required

*Data item added for cases diagnosed 01/01/2014 or later, when available.

Description

This is a required (when available) 4-character field to record a code for the pathologic M classification. The pathologic M records the presence or absence of distant metastases.

Definitions

The following general definitions are used throughout the TNM classification:

M0 No distant metastasis

M1 Distant metastases are present

Codes

X = MX (AJCC editions 1-6 only)

0 = M0 (AJCC editions 1-6 only)

0I+ = M0(i+)

1 = M1

1A = M1a

1B = M1b

1C = M1c

1D = M1d

1E = M1e

88 = Not applicable (no AJCC staging scheme)

blank = Not recorded

Instructions

- a. Record the code for the pathologic M documented by the first treating physician or the managing physician.
- b. If the managing physician has not recorded pathologic M, registrars may code this item based on the best available information.
- c. If the value does not fill all 4 characters, record the value to the left and leave the remaining spaces blank.
- d. Refer to the current *AJCC Cancer Staging Manual* for staging rules.
- e. When a patient with multiple primaries develops metastases, a biopsy may distinguish the source of distant disease. Stage both primaries as having metastatic disease if the physician is unable to conclude which primary has metastasized. If the physician later identifies which primary has metastasized, update the stage(s) as appropriate.

PATHOLOGIC STAGE GROUP

Item Length: 4
 Data Type: Alphanumeric
 Left Justified, Blank Fill
 ACoS: Required
 State Registry: *Required

*Data item added for cases diagnosed 01/01/2014 or later, when available.

Description

This is a required (when available) 4-character field for recording a code that condenses the pathologic T, N, and M elements into categories for purposes of tabulation and analysis. It defines the anatomic extent of disease based on the previously coded T, N, and M elements.

The TNM (Tumor, Nodes, Metastasis) Stage Grouping codes are from the *AJCC Cancer Staging Manual*. Efforts should be made to capture this information on a staging form or in the medical record.

Codes

0 = Stage 0	2C = Stage IIC
0A = Stage 0A	3 = Stage III
0IS = Stage 0is	3A = Stage IIIA
1 = Stage I	3B = Stage IIIB
1A = Stage IA	3C = Stage IIIC
A1 = Stage T1A1	3C1 = Stage IIIC1
A2 = Stage T1A2	3C2 = Stage IIIC2
1B = Stage T1B	4 = Stage IV
B1 = Stage T1B1	4A = Stage IVA
B2 = Stage T1B2	4A1 = Stage IVA1
1C = Stage IC	4A2 = Stage IVA2
1S = Stage IS	4B = Stage IVB
2 = Stage II	4C = Stage IVC
2A = Stage IIA	OC = Occult
2A1 = Stage IIA1	88 = Not applicable
2A2 = Stage IIA2	99 = Unknown
2B = Stage IIB	

Instructions

- Record the code for the pathologic stage group documented by the first treating physician or the managing physician.
- If the managing physician has not recorded pathologic stage group, registrars may code this item based on the best available information.
- If pathologic M is coded as either X or blank and clinical M is coded as 0, 1, 1a, 1b, or 1c, then a combination of staging elements pT, pN, and cM may be used to complete the pathologic stage group.
- If the value does not fill all 4 characters, record the value to the left and leave the remaining spaces blank.
- Convert all Roman numerals to Arabic numerals and use upper-case (capital letters) only.

Example 1: Stage IV converts to stage 4.
Example 2: Stage IIA converts to stage 2A.
- Refer to the current *AJCC Cancer Staging Manual* for staging rules.

PATHOLOGIC STAGE (PREFIX/SUFFIX) DESCRIPTOR

Item Length: 1
 Data Type: Numeric
 ACoS: Required
 State Registry: *Required

*Data item added for cases diagnosed 01/01/2014 or later, when available.

Description

This is a required (when available) 1-character field for coding the AJCC pathologic stage (prefix/suffix) descriptor known following the completion of surgical therapy. Stage descriptors identify special cases that need separate analysis. The descriptors do not change the stage group.

Codes

Code	Label	Description
0	None	There are no prefix or suffix descriptors that would be used for this case.
1	E: Extranodal, lymphomas only	A lymphoma case involving an extranodal site.
2	S: Spleen, lymphomas only	A lymphoma case involving the spleen.
3	M: Multiple primary tumors in a single site	This is one primary with multiple tumors in the primary site at the time diagnosis.
4	Y: Classification during or after initial multimodality therapy-pathologic staging only	Not applicable for clinical stage.
5	E&S: Extranodal and spleen, lymphomas only	A lymphoma case with involvement of both an extranodal site and the spleen.
6	M&Y: Multiple primary tumors and initial multimodality therapy.	The case meets the criteria for both codes 3 (multiple primary tumors in a single site) and 4 (classification during or after initial multimodality therapy).
9	Unknown; not stated in patient record	A prefix or suffix would describe this stage, but it is not known which would be correct.

Instructions

- a. Record the code for the pathologic stage (prefix/suffix) descriptor as documented by the treating physician(s) or the managing physician in the medical record.
- b. If the managing physician has not documented the descriptor, registrars may code this item based on the best available information.
- c. Refer to the current *AJCC Cancer Staging Manual* for staging rules.

TEXT FIELDS FOR WORKUP**DX PROCEDURES X-RAY/SCANS**

Data Type: Text

DX PROCEDURES LAB TEXTS

Data Type: Text

HISTORY AND PHYSICAL

Data Type: Text

SURGICAL STAGING PROCEDURES

Data Type: Text

DIAGNOSTIC SCOPE PROCEDURES

Data Type: Text

ACoS: N/A

State Registry: Optional

Description

The fields listed above are optional text fields in the RMCDS abstract screen for recording information from the work-up for the tumor being reported. Facilities using the paper abstract may record this information in the field, *Remarks*. Facilities using other types of registry software should follow their vendor's instructions for recording text about the work-up. Although the items are optional, abstractors are strongly encouraged to document work-up that provides information about the malignancy or extent of disease that has not been recorded in other text fields.

InstructionsDx Procedures X-rays/Scans

- a. Record documentation from all X-ray, scans, and/or other imaging examinations that provide information about the malignancy or extent of disease.
- b. Include, as applicable: Dates, primary site, histology, tumor location, tumor size, lymph nodes, positive and negative findings, and distant disease or metastasis.

Dx Procedures Lab Tests

- a. Record documentation from laboratory examinations other than cytology or histopathology. Tests can include tumor markers, serum and urine electrophoresis, special studies, etc.
- b. Include, as applicable: Type of laboratory test/specimen(s), date(s) of test(s), and positive and negative findings.

History and Physical

- a. Record documentation from the history and physical examination about the history and clinical description of the current tumor.
- b. Include, as applicable: Date of physical exam; age, sex, race/ethnicity; history that relates to cancer diagnosis; primary site; histology (if diagnosed prior to this admission); tumor location; tumor size; palpable lymph nodes; positive and negative clinical findings; impression pertaining to cancer diagnosis; and treatment plan.

Surgical Staging Procedures

- a. Record documentation of all surgical diagnostic and staging procedures.
- b. Include, as applicable: Dates and descriptions of biopsies and all other surgical procedures from which staging information was derived; number of lymph nodes removed; size of tumor removed; documentation of residual tumor; evidence of invasion of surrounding areas.

Diagnostic Scope Procedures

- a. Record documentation from endoscopic examinations that provide information for staging and treatment.

- b. Include, as applicable: Date(s) of endoscopic exam(s); primary site; histology; tumor location; tumor size; lymph nodes; and positive and negative clinical findings.

GENERAL DEFINITIONS AND RULES FOR CODING TREATMENT

- a. **Definitive (cancer-directed) treatment** is any therapy whose purpose is to *modify, control, remove, or destroy proliferating cancer tissue*. Treatment may be directed toward either the primary or metastatic sites, regardless of the patient's response.

Record all cancer-directed treatment administered to the patient in the first course of treatment. Include treatment provided in other facilities and failed treatments (the patient did not respond).

For statistical analysis of treatment, only the following codes are considered definitive treatment codes:

- 10-90 Surgery (removal of tumor cells)
- 20-98 Regional radiation treatment modality (destruction of cancer cells through rays, radons)
- 01-03 Chemotherapy (destruction of cancer cells through chemicals, drugs)
- 01 Hormone/steroid (endocrine) therapy (changing hormonal balance through hormones, steroids, or endocrine surgery)
- 01 Immunotherapy or Biological Response Modifier therapy (agents that alter the immune system or change the host response)
- 10-40 Hematologic transplant and endocrine procedures
- 1-3 Other cancer-directed therapy (nonspecific or experimental)

Codes that indicate a specific definitive treatment is not recommended, recommended but not given, or unknown whether recommended or given may be recorded in the treatment fields listed below.

- (1) Chemotherapy codes 82-99
- (2) Hormone Therapy codes 82-99
- (3) Immunotherapy (Biological Response Modifier) codes 82-99
- (4) Other Therapy codes 7, 8, and 9
- (5) Hematologic Transplant and Endocrine Procedure codes 82-99

- b. **Non-definitive (non cancer-directed) treatments** are performed to establish a diagnosis or stage, relieve symptoms, prolong the patient's life, or prepare the patient for cancer-directed therapy. Such treatments are not considered cancer-directed treatment. There is no expectation of reducing the size of the tumor or of delaying the spread of the disease. In effect, it is treatment of the patient, not the cancer.

The following examples of non-definitive treatment are not considered cancer-directed therapy, but can be recorded in the designated fields, when applicable.

- (1) Surgical Diagnostic and Staging Procedure codes 01 – 09. These procedures include:
 - Incisional biopsies
 - Exploratory procedures with or without biopsies
 - -otomy, -ostomy, or bypass only
- (2) Palliative Care codes 1-9 (Not collected by the State Cancer Registry - refer to the *FORDS*.)

The following treatments are also considered non-definitive therapies and are not coded:

- (1) Pain medication
- (2) Oxygen
- (3) Antibiotics administered for an associated infection
- (4) Transfusions (e.g., to counteract blood dyscrasia resulting from chemotherapy)
- (5) Medication (e.g., Epogen, Neupogen, or Procrit) to counteract blood dyscrasia resulting from chemotherapy
- (6) Intravenous therapy to maintain fluid or nutritional balance
- (7) Laser therapy directed at relieving symptoms
- (8) Closure of colostomy in a patient with prior resection for cancer of the bowel
- (9) Megestrol acetate, hormone therapy designed to improve nutritional status

c. First Course of Treatment

All cancer-directed therapies specified in the physician(s) treatment plan during or after the initial diagnosis are part of the first course of treatment. Documentation of a treatment plan may be found in several different sources, for example: medical clinic record, consultation reports, and outpatient records. The discharge plan may document all or part of the treatment plan.

- (1) For all malignancies except leukemias, first course of treatment includes all methods of therapy recorded in the treatment plan and administered to the patient during or after the first diagnosis of cancer. Planned treatment may include multiple modes of therapy and may encompass intervals of a year or more.

If the therapy is a part of an established protocol or administered within accepted management guidelines for the disease, it is first course of treatment. When a treatment plan is not available or is unclear, consult the physician advisor.

If there is no treatment plan, established protocol, or management guidelines, and consultation with a physician advisor is not possible, use the principle: "Initial treatment must begin within four months of the date of initial diagnosis."

- (2) For leukemias, first course of treatment includes all methods of therapy recorded in the treatment plan and administered to the patient during or after the first diagnosis of leukemia. Record all remission-inducing or remission-maintaining cancer-directed therapy as first course of treatment. Treatment regimens may include multiple modes of therapy and may encompass intervals of a year or more. Certain pediatric leukemia protocols span two years or more from induction to the end of maintenance. In these protocols, induction, consolidation, and maintenance are all first course of treatment.

If the therapy for leukemia is a part of an established protocol or administered within accepted management guidelines for the disease, it is first course of treatment. When a treatment plan is not available or is unclear, consult the physician advisor.

A patient may relapse after achieving a first remission. All therapy administered after the relapse is secondary or subsequent treatment.

d. No Treatment

No therapy is a treatment option (the patient refused therapy, the family/guardian refused therapy, the patient expired before therapy started, or the physician recommended no therapy). Therefore, first course of treatment may be no treatment. Record the date the decision was made not to treat in *Date of First Course of Treatment*.

- e. **Treatment for Recurrence or Progression** (subsequent treatment) includes all treatments administered after the first course of therapy is complete or was stopped. A physician may stop treatment if the disease progresses despite therapy or if the patient fails to respond. The patient may also choose to stop treatment. If therapy is not part of the planned first course of treatment, it is considered subsequent therapy.

If there is a change in the original planned or administered treatment because the patient does not respond or the disease progresses, such therapy should be excluded from the first course of therapy and be considered as part of a second or subsequent course of therapy.

The State Cancer Registry does not require facilities to report subsequent therapy. The RMCDS program includes "Subsequent Treatment" screens for facilities that choose to report it.

f. **Treatment Dates**

- (1) If your software allows collection of information for only one cancer-directed surgery, record the first date on which the patient has cancer-directed surgery. Record the surgery code with the highest priority according to the rules defined in the Appendix G for site-specific surgery codes.
- (2) If the exact date that therapy was started is not known, the best estimate based on available information is acceptable. In the absence of an exact date of treatment, the date of hospital admission for the first cancer-directed therapy is acceptable. Recording an approximate date is preferable to leaving the date blank.
- (3) If there is no basis for estimating, leave the month and day spaces blank. Every attempt should be made to enter the month and year, even if an estimate is necessary. In those rare instances when it is necessary to enter unknown month, day, or year, leave the appropriate spaces blank.

If information is limited to a description, use the following:

DESCRIPTIVE TERM USED	DATE CODE
Spring	April
The middle of the year	July
Fall	October
Winter	Try to determine if this means the beginning of the year (January) or the end of the year (December). Code as indicated.

- (4) If cancer-directed therapy was initiated at another facility and you cannot approximate the date it began, leave the date blank. If you do know the exact date, you should record it, even if the therapy did not take place at your facility.
- (5) If the documented, planned first course of therapy occurred after four months, enter the date this planned first course of therapy was initiated, even if it was initiated after four months from the date of initial diagnosis.
- (6) If class of case is 38 (diagnosed at autopsy), do not record any treatment or treatment dates. *Date of First Course Treatment* would be left blank.

SURGICAL DIAGNOSTIC AND STAGING PROCEDURE

Item Length: 2
Data Type: Numeric
ACoS: Required
State Registry: Required

Description

Identifies surgical procedure(s) performed in the work-up to diagnose and/or stage disease. The item is used to track the use of surgical procedure resources that are not considered treatment.

Codes

- 00 No surgical diagnostic or staging procedure was performed.
- 01 A biopsy (incisional, needle, or aspiration) was done to a site other than the primary. No exploratory procedure was done.
- 02 A biopsy (incisional, needle, or aspiration) was done to the primary site; or biopsy or removal of a lymph node to diagnose or stage lymphoma.
- 03 A surgical exploration only. The patient was not biopsied or treated.
- 04 A surgical procedure with a bypass was performed, but no biopsy was done.
- 05 An exploratory procedure was performed, and a biopsy of either the primary site or another site was done.
- 06 A bypass procedure was performed, and a biopsy of either the primary site or another site was done.
- 07 A procedure was done, but the type of procedure is unknown.
- 09 No information of whether a diagnostic or staging procedure was performed.

Instructions

- a. Record the type of procedure performed as part of the initial diagnosis and work-up, whether this is done at your facility or another facility.
- b. Only record positive procedures. For benign and borderline reportable tumors, report the biopsies positive for those conditions. For malignant tumors, report procedures if they were positive for malignancy.
- c. If both an incisional biopsy of the primary site and an incisional biopsy of a metastatic site are done, record code 02 (Incisional biopsy of primary site).
- d. Record code 02 for lymphoma primaries when a lymph node is biopsied or removed for diagnosis or staging and that node is not the only node involved with lymphoma. When the lymph node removed is the only node involved with lymphoma, record the applicable surgical procedure code in *Surgical Procedure of Primary Site*.
- e. Do not code surgical procedures that aspirate, biopsy, or remove regional lymph nodes in an effort to diagnose and/or stage disease in this data item. Use the data item *Scope of Regional Lymph Node Surgery* to code these procedures. Do not record the date of surgical procedures that aspirate, biopsy, or remove regional lymph nodes in the data item *Date of Surgical Diagnostic and Staging Procedure*. See instructions for *Scope of Regional Lymph Node Surgery*.
- f. Do not code brushing, washings, cell aspiration, or hematologic findings (peripheral blood smears). These are not considered surgical procedures and should not be coded in this item.

- g. Do not code excisional biopsies with clear or microscopic margins in this data item. Use the data item *Surgical Procedure of Primary Site* to code these procedures.
- h. When a needle biopsy of the primary site is followed by an excisional biopsy or more extensive surgery, code both, even if no tumor remained at the time of the surgery. (Code *Surgical Diagnostic and Staging Procedure* and *Surgical Procedure of Primary Site*.)
- i. Do not code palliative surgical procedures in this data item. Use the *Palliative Care* field to code these procedures. The State Registry does not collect the *Palliative Care* data item. Refer to the *FORDS* manual for codes.

Codes with Examples:

- 00 A lung cancer primary was diagnosed by CT scan. The patient expired. No surgical diagnostic or staging surgical procedure was performed.
- 00 A sputum sample is examined cytologically to confirm a diagnosis of suspected lung cancer. The procedure is not surgical.
- 01 A needle biopsy of a liver metastasis in a patient with suspected widespread colon cancer was done. Gross residual tumor is left at the biopsy site.
- 02 During a colonoscopy, a biopsy of a primary rectal mass was done. Gross residual tumor is left at the biopsy site.
- 03 During abdominal exploratory surgery, a gastric lesion and suspicious retroperitoneal lymph nodes were observed. No biopsy or treatment was done.
- 04 An abdominal exploration of a patient revealed pancreatic carcinoma with extension into surrounding organs and arteries. There was no attempt to treat. A bypass was performed to alleviate symptoms.
- 05 An open, exploratory procedure was performed for primary colon carcinoma with biopsy of suspicious liver lesions.
- 06 Esophagogastrostomy was performed for infiltrating gastric tumor following a biopsy of the primary site.
- 07 Stage III lung carcinoma was diagnosed and staged prior to admission.
- 09 A patient expires in the emergency room with recently diagnosed metastatic melanoma. It is unknown whether a diagnostic or staging procedure was done.

DATE OF FIRST COURSE OF TREATMENT

Item Length: 8
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This is a required 8-character field for recording the date on which treatment (surgery, radiation, systemic, or other therapy) of the patient began at any facility. Determine whether your software vendor uses the traditional format for date entry (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format.

Codes

	<u>Month</u>	<u>Day</u>	<u>Year</u>
01	January	01	Use four-digit year (e.g., 2015)
02	February	02	blank = Year unknown
03	March	03	
04	April	...	
05	May	...	
06	June	25	
07	July	26	
08	August	...	
09	September	30	
10	October	31	
11	November	blank = Day unknown	
12	December		
blank	Month unknown		

Instructions

- Record the earliest of the following dates: *Date of First Surgical Procedure, Date Radiation Started, Date Chemotherapy Started, Date Hormone Therapy Started, Date Immunotherapy Started, Date of Hematologic Transplant and Endocrine Procedure, or Date Other Treatment Started*. Record the earliest treatment date, whether it occurs at your facility or elsewhere. For example, if the patient receives preoperative radiation elsewhere before admission to your facility for surgery, record the date of the preoperative radiation.
- If active surveillance or watchful waiting is selected as the first course of treatment, record the date this decision is made.
- In cases of non-treatment, in which a physician decides not to treat a patient or a patient's family or guardian declines all treatment, record the date this decision was made.
- If the cancer was diagnosed at autopsy and not suspected prior to that, leave this item blank.
- Do not record the date of incisional, core, or fine needle biopsy in this field, even if it is the only procedure performed.
- Record the date of an excisional biopsy as the *Date of First Course of Treatment*, whether followed by further definitive therapy or not. The excisional biopsy date will remain *Date of First Course of Treatment* even when followed by other surgery of the primary site. Enter the date of the excisional biopsy, whether or not residual tumor was found at the time of later resection. If the biopsy was not stated to be excisional, but no residual tumor was found at a later resection, assume that the biopsy was excisional. Use the date of admission if an exact treatment date is not obtainable for the excisional biopsy.

Example: A breast cancer patient has an excisional biopsy on June 26, 2015. The patient has a modified radical mastectomy July 5, 2015. Record June 26, 2015 in the *Date of First Course of Treatment* field.

- g. If the exact date of the beginning of treatment is not available, record an approximate date. If information is limited to a description, use the following:

DESCRIPTIVE TERM USED	DATE CODE
Spring	April
The middle of the year	July
Fall	October
Winter	Try to determine if this means the beginning of the year (January) or the end of the year (December). Code as indicated.

- j. If the date of first course of treatment cannot be determined at all or is not applicable, leave the date of first course of treatment blank and record the reason in *Date of First Course of Treatment Flag*. See the *Date of of First Course of Treatment Flag* section for examples illustrating the relationships among these items.

DATE OF FIRST COURSE TREATMENT FLAG

Item Length: 2
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This flag explains why there is no appropriate value in the corresponding date field, *Date of First Course Treatment* (NAACCR Item #1270). This data item was added to Volume II Version 12 (effective January 2010).

Rationale

Prior to version 12 (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields.

Codes

- 10 No information whatsoever can be inferred from this exceptional value (It is unknown whether treatment was administered.)
- 11 A valid date is not applicable in this context (for example, autopsy only case)
- 12 A valid date is applicable but not known (for example, treatment was administered but the date is unknown)
- Blank A valid date is coded in the *Date of First Course Treatment* item (NAACCR Item #1270).

Instructions

- Leave this item blank if *Date of First Course Treatment* has a full or partial date recorded.
- Use code 12:
 If the *Date of First Course Treatment* cannot be determined at all, but the patient did receive first course treatment, or;
 If a decision not to treat was made, but the date is totally unknown, or;
 If a decision to use active surveillance was made, but the date is totally unknown.
- Use code 10 if it is unknown whether any treatment was administered.
- Use code 11 if the initial diagnosis was made at autopsy.
- Code this data item (when appropriate) even if your software uses the traditional format for date entry.

Examples:

Description	Date (Leave unknown portions blank.)	Date of 1 st Crs Rx Flag
Full date known	*01/08/2015 or 2015/01/08	Blank
Month & year known	*01/_/_/2015 or 2015/01/_/_	Blank
Year only known	*_/_/_/2015 or 2015/_/_/_	Blank
Unknown if Rx given	*_/_/_/_ or _/_/_/_	10
Diagnosed at autopsy	*_/_/_/_ or _/_/_/_	11
Rx given, unknown date	*_/_/_/_ or _/_/_/_	12

* For date entry, your software may use the traditional format (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format. The computer will store either in the interoperable format.

DATE MOST DEFINITIVE SURGICAL RESECTION OF PRIMARY SITE

Item Length: 8
 Data Type: Numeric
 ACoS: Required
 State Registry: *Required

*Required for cases diagnosed 01/01/2015 and later.

Description

This is a required 8-character field for recording the date the most definitive surgical procedure of the primary site was performed. Determine whether your software vendor uses the traditional format for date entry (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format.

Codes

	<u>Month</u>	<u>Day</u>	<u>Year</u>
01	January	01	Use four-digit year (e.g., 2015)
02	February	02	blank = Year unknown
03	March	03	
04	April	...	
05	May	...	
06	June	25	
07	July	26	
08	August	...	
09	September	30	
10	October	31	
11	November	blank = Day unknown	
12	December		
blank	Month unknown		

Instructions

- Record the date on which the surgery described by *Surgical Procedure of Primary Site* (NAACCR Item #1290) was performed at your facility or elsewhere. For example, if the patient receives surgery elsewhere before admission to your facility for adjuvant treatment, record the date of the surgery.
- If the exact date of surgery is not available, record an approximate date. If information is limited to a description, use the following:

DESCRIPTIVE TERM USED	DATE CODE
Spring	April
The middle of the year	July
Fall	October
Winter	Try to determine if this means the beginning of the year (January) or the end of the year (December). Code as indicated.

- If the date of surgery cannot be determined at all or is not applicable, leave the date of most definitive surgery blank and record the reason in *Date of Most Definitive Surgery Flag*. See the *Date of Most Definitive Surgery Flag* section for examples illustrating the relationships among these items.

DATE OF MOST DEFINITIVE SURGERY FLAG

Item Length: 2
 Data Type: Numeric
 ACoS: Required
 State Registry: *Required

*Required for cases diagnosed 01/01/2015 and later.

Description

This flag explains why there is no appropriate value in the corresponding date field, *Date of Most Definitive Surgical Resection of Primary Site* (NAACCR Item #3170). This data item was added to Volume II Version 12 (effective January 2010).

Rationale

Prior to version 12 (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields.

Codes

- 10 No information whatsoever can be inferred from this exceptional value (It is unknown whether treatment was administered.)
- 11 A valid date is not applicable in this context (for example, no surgery performed)
- 12 A valid date is applicable but not known (for example, surgery was performed but the date is unknown)
- Blank A valid date is coded in the *Date of Most Definitive Surgical Resection of Primary Site* item (NAACCR Item #3170).

Instructions

- Leave this item blank if *Date of Most Definitive Surgical Resection of Primary Site* has a full or partial date recorded.
- Use code 12 if the *Date of Most Definitive Surgical Resection of Primary Site* cannot be determined, but the patient did receive first course surgery.
- Use code 10 if it is unknown whether any surgery was performed.
- Use code 11 if no surgical procedure was performed.
- Code this data item (when appropriate) even if your software uses the traditional format for date entry.

Examples:

Description	Date (Leave unknown portions blank.)	Date of 1 st Crs Rx Flag
Full date known	*01/08/2015 or 2015/01/08	Blank
Month & year known	*01/_/_/2015 or 2015/01/_/_	Blank
Year only known	*_/_/_/2015 or 2015/_/_/_	Blank
Unknown if surgery performed	*_/_/_/____ or ____/_/_/____	10
No surgery performed	*_/_/_/____ or ____/_/_/____	11
Surgery performed, unknown date	*_/_/_/____ or ____/_/_/____	12

* For date entry, your software may use the traditional format (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format. The computer will store either in the interoperable format.

TREATMENT STATUS

Item Length: 2
 Data Type: Numeric
 ACoS: Required
 State Registry: *Required

*Required if available for cases diagnosed 01/01/2010 and later.

Description

This data item summarizes whether the patient received any first course treatment or the tumor was under active surveillance.

Rationale

This item documents active surveillance (watchful waiting) and eliminates searching each treatment modality to determine whether treatment was given. It is used in conjunction with *Date of First Course of Treatment* to document whether treatment was or was not given, it is unknown if treatment was given, or treatment was given on an unknown date.

Codes

- 0 No treatment given
- 1 Treatment given
- 2 Active surveillance (watchful waiting)
- 9 Unknown if treatment was given

Instructions for Coding

- a. Leave this item blank for cases diagnosed prior to 2010,
- b. Treatment given after a period of active surveillance is considered subsequent treatment and should **not** be coded as "Treatment given" (code 1) in this item.

Examples:

<u>Code</u>	<u>Reason</u>
0	An elderly patient with pancreatic cancer requested no treatment.
0	The patient is expected to receive radiation, but it has not occurred yet (Code 8 is recorded in <i>Reason for No Radiation.</i>)
2	The treatment plan for a patient with lymphoma is active surveillance.

GENERAL INSTRUCTIONS FOR RMCDS TREATMENT FIELDS

Description

Ten hospital-specific first course treatment screens are available in the RMCDS *FORDS* version for recording first course treatment provided at the reporting facility and/or other facilities. Each of the screens is similar to the illustration provided below and includes fields for recording the facility where the treatment occurred, the codes for the various treatment modalities, and the respective dates of treatment. The first available screen is opened by double clicking on the *First Course Treatment* field or by using the “Alt” and “T” keys. The “Next” button will open an additional first course treatment screen only if data has been entered in the current screen. Use the “Exit” button or the “Esc” key to close the treatment screens.

First Course Treatment			X
Hospital	<input type="text"/>	<input type="button" value="Look up"/>	<input type="checkbox"/> Delete
Dx/Stage Proc	<input type="checkbox"/>	DX/Stage Date	F / / -
Surg Prim Site	<input type="checkbox"/>	Surg Date	F / / -
Radiation (SEER)	<input type="checkbox"/>	Discharge Date	F / / -
Rad Rx Mod	<input type="checkbox"/>	Rad Date	F / / -
Chemotherapy	<input type="checkbox"/>	Rad End Date	F / / -
Hormonal	<input type="checkbox"/>	Chemo Date	F / / -
BRM	<input type="checkbox"/>	Horm Date	F / / -
Transpl/Endo	<input type="checkbox"/>	BRM Date	F / / -
Other	<input type="checkbox"/>	Tr/E Date	F / / -
		Date Systemic	F / / -
		Other Date	F / / -
Scope of LN Surgery	<input type="checkbox"/>	Scope 98-02	<input type="checkbox"/>
Surgery of Other Sites	<input type="checkbox"/>	SX Other 98-02	<input type="checkbox"/>
Palliative Procedure	<input type="checkbox"/>	Reg LN Examined	<input type="checkbox"/>
Location of Radiation	<input type="checkbox"/>	Screen/Bx	<input type="text"/>
Surgical Approach	<input type="checkbox"/>	Treatment Status	<input type="checkbox"/>
Surgical Appr 2010	<input type="checkbox"/>	Readm 30 days	<input type="checkbox"/>
Surgical Margins	<input type="checkbox"/>	Reconstructive Surg	<input type="checkbox"/>
<input type="button" value="Previous"/>	<input type="button" value="Next"/>	Record #1 of 1	<input type="button" value="Print"/>
			<input type="button" value="Exit"/>

Instructions

- Hospital (Refer to Appendix D of this manual for facility identification (ID) numbers.)
If any of the treatment modalities were provided at your facility, record your facility number in the hospital field. If more than one surgery of the primary site are performed at your facility, use the other “First Course Treatment” screen(s) as needed.

If additional treatment is known to have been provided at other facility(ies), use the other “First Course Treatment” screen(s) as needed, recording the facility’s ID number or 999. Code facility ID as 700 for treatment provided in a physician’s office. If the only known treatment was provided at another facility, use the first available screen. If it is unknown where the treatment occurred, record code 999.

- b. Surgical Diagnostic and Staging Procedure
Record the appropriate *Surgical Diagnostic and Staging Procedure* code from the list defined in that section of this manual.
- c. Treatment Modality Fields
Record the appropriate treatment code(s) from the applicable list(s) in this manual for *Surgery of Primary Site, Radiation, Radiation Modality, Chemotherapy, Hormone Therapy, Biological Response Modifier, Transplant/Endocrine Procedure, or Other Treatment*.

- d. Dates
Record the eight-character date (MM/DD/YYYY) that the treatment was performed or started in the date field adjacent to the applicable treatment code. Fill with leading zeros where needed (e.g., record June 3, 2015 as 06/03/2015). If the patient received no treatment or if the date is unknown, leave the date field blank. If the month or day is unknown, leave the applicable section of the date item blank and enter the appropriate numbers for the known component(s) of the date (usually at least the year).

In the Date Systemic item, record the first or earliest date on which systemic therapy was administered. Systemic therapy includes *Chemotherapy, Hormone Therapy, Immunotherapy, and Hematologic Transplant and Endocrine Procedures*.

- e. Date Flags
Spaces for the two-digit Date Flag codes are provided after the hyphen on the right side of each treatment date field. For each treatment date field that is blank, enter the appropriate Date Flag code. Leave the Date Flag spaces blank for any full or partial treatment date.

The Date Flag codes may be entered either manually, by placing the cursor in the first space and entering the code, or by clicking the tab labeled "F" and selecting the appropriate code for auto-entry.

- f. Scope of Lymph Node Surgery
Record the appropriate *Scope of Lymph Node Surgery* code from the list defined in that section of this manual.
- g. Surgery of Other Sites
Record the appropriate *Surgery of Other Sites* code from the list defined in that section of this manual.
- h. Treatment Status (State required for cases diagnosed 2010 and later)
Record the appropriate *Treatment Status* code from the list defined in that section of this manual.
- i. The items listed below must be coded for cases diagnosed before 2003. Record the appropriate codes from historical coding manuals, such as the 1998 State Manual or the *ROADS 1998*. The related data items (Surgery Primary Site, Scope of LN Surgery, and Surgery of Other Sites) must also be coded using codes and instructions from current manuals.

Surg 98-02
Scope 98-02
SX (Surgery) Other 98-02

- j. The items listed below are not required by the State Cancer Registry. Facilities that wish to collect them should use the codes defined in the *FORDS* manual.

Palliative Procedure (Palliative Care)
Location of Radiation
Surgical Appr (Approach) 2010
Surgical Margins
Readm 30 days

- k. The items listed below were created from coding manuals for cases diagnosed before 2003 and may be left blank if abstracting cases diagnosed before or after 2003. For cases abstracted prior to the 2003 conversion, these items will have retained any original coding.

Surgical Approach
Regional Lymph Nodes Examined
Screen/Bx (Screening/Biopsy) Procedure
Reconstructive Surg
Surgery Type

- l. Radiation Detail
Clicking on the tab labeled "Radiation Detail" opens a screen for coding the additional radiation treatment information that is not required by the State Registry. Facilities that wish to collect these items should use the codes defined in the *FORDS* manual.

Subsequent Treatment

Ten "Subsequent Treatment" screens are available in the RMCDS program. The first available screen is opened by using the Alt and "Q" keys. Subsequent treatment is optional for reporting to the State Registry.

**SURGICAL PROCEDURE OF PRIMARY SITE
(CANCER-DIRECTED SURGERY)**

Item Length: 2
Data Type: Numeric
ACoS: Required
State Registry: Required

Description

This is a required 2-character field to record the surgical procedure performed to the primary site as part of first course of therapy. Record all procedures done at your facility and procedures done at other facilities, if known.

Codes

The site-specific surgery codes are provided in Appendix G of this manual. Definitions and rules for the surgery codes are provided at the beginning of Appendix G.

General Code Structure (See Appendix G for site-specific codes.)

Code(s) Description

00	None; no surgical procedure of primary site; diagnosed at autopsy only
10-19	Site-specific codes. Tumor destruction; no pathologic specimen or unknown whether there is pathologic specimen
20-80	Site-specific codes. Resection; pathologic specimen
90	Surgery, NOS. A surgical procedure to the primary site was done, but no information on the type of surgical procedure is provided.
98	Special code for hematopoietic, reticuloendothelial, immunoproliferative, myeloproliferative diseases; unknown primaries; and ill-defined sites (See site-specific codes for the sites and histologies), except death certificate only
99	Unknown if surgery performed; death certificate only

Definitions

- a. Definitive (cancer-directed) surgery is surgery that **removes or destroys proliferating cancer tissue**. This includes excisional biopsy with microscopic residual disease or no residual disease. Valid codes for cancer-directed surgery of the primary site are 10-90.
- b. Non cancer-directed procedures are performed to diagnose or stage the disease (*Surgical Diagnostic and Staging Procedure* codes 01-07), or for relief of symptoms (*Palliative Care* code 1). Record *Surgical Diagnostic and Staging Procedures* in the designated field of the RMCDS "First Course of Treatment" screens. The State Registry does not collect the *Palliative Care* data item.

The following procedures are examples of exploratory (diagnostic or staging) surgery (code 03 without biopsy or code 05 with biopsy).

- Celiotomy
- Laparotomy
- Cystotomy
- Nephrotomy
- Gastrotomy
- Thoracotomy, including Chamberlain procedure

The following non cancer-directed procedures are examples of bypass surgery (code 04 without biopsy or code 06 with biopsy). Code only if performed as part of the initial diagnosis and work-up. If performed for palliation only, code in *Palliative Care* if collected. The State Registry does not collect the *Palliative Care* data item.

- Colostomy
- Nephrostomy
- Esophagostomy
- Tracheostomy
- Gastrostomy

- Urethrostomy

The following examples of diagnostic (non cancer-directed) procedures are not considered exploratory surgery. These procedures do not require an incision, since entry into a body cavity is made through a natural orifice. Code only if a biopsy was done as part of the procedure.

- Bronchoscopy
- Colonoscopy
- Cystoscopy
- Endoscopy
- ERCP (endoscopic retrograde cholangiopancreatography)
- Laryngoscopy
- Mediastinoscopy
- Dilatation & curettage (D & C) – Use non cancer-directed surgery code 02 when primary site is corpus uteri. Use the cancer-directed surgery code only when performed for in situ cancer of the cervix.

Brushings, washings, aspiration of cells, and hematologic findings (peripheral blood smears) are not surgical procedures.

Instructions

- a. After determining that cancer-directed surgery of the primary site was performed, use the best information in the operative and pathology reports to determine the operative procedure. The operative report title may not have adequate information for the surgery code. Use the operative report text and the pathology report to correctly identify the procedure performed. Use the information from the pathology report when an operative report is unclear or is inconsistent.

Exception: If the pathology report states they cannot give an accurate accounting of organs removed (tumor encasement, crush artifact, etc).

- b. In the “Surgery” field, record the site-specific 2-digit surgical code from Appendix G for the specific surgery performed as part of the first course of treatment. For RMCDS users, record the date the surgery was performed in the adjacent “Date” field.
- c. Record Surgical Diagnostic and Staging Procedures in the designated field of the RMCDS “First Course of Treatment” screens. Do record all biopsies as well as cancer-directed surgical procedures.
- d. More than one cancer-directed surgical procedure can be recorded in the RMCDS “First Course of Treatment” screens.

If a biopsy was followed by a re-excision or wide excision within the first course of cancer-directed therapy and the path report for the re-excision or wide excision is negative for residual tumor, code the biopsy as an excisional biopsy. In the RMCDS program or the paper abstract, record both procedures, each with its respective date. Record the excisional biopsy date as the date of first course of treatment.

Example 1: A patient has an excisional breast biopsy at your hospital January 12, 2015. The pathology report reveals an axillary node with micrometastasis. The patient opted to have a mastectomy on March 21, 2015. Code the procedures as follows:

Surgery Code	Procedure	Date
41	Simple mastectomy	03/21/2015
22	Excisional biopsy	01/12/2015

If you can record only one surgical procedure in your system, record the surgical code with the highest priority according to the rules on the following page and use the first date on which the patient has cancer-directed surgery (41-01/12/2015).

Example 2: A patient had a breast biopsy on March 15, 2015 in the physician's office. A simple mastectomy was done at your hospital on March 27, 2015. Both procedures should be recorded, as follows:

Surgery Code	Procedure	Date
41	Mastectomy	03/27/2015
02	Incisional biopsy of primary site	03/15/2015

If you can record only one surgical procedure in your system, code surgery 41 with 03/27/2015 as the date of treatment.

- e. If the patient had no surgery at your hospital, but had surgery at another facility, you may enter the surgery information from the other hospital, if known. In one of the RMCDS "First Course Treatment" screen(s), record the facility ID and the appropriate surgery code and date. In the paper abstract, identify the facility in the *Description of Treatment* text field.
- f. If the patient did not have cancer-directed surgery, record the reason as instructed in the *Reason for No Surgery of Primary Site* section.

Special Rules

a. Coding Multiple Definitive Surgeries

- (1) If a single field is available for the data item *Surgical Procedure of Primary Site* or if a summary treatment field is provided and the patient has multiple cancer-directed surgeries of the primary site, code the most invasive, definitive surgery. For codes 00 through 79, the code **positions** are hierarchical. Last-listed codes take precedence over codes listed above. Use codes 80 and 90 only if more precise information about the surgery is unavailable.

Example: A patient has a colonoscopy with removal of a polyp in the sigmoid colon (code 28). The pathology report identifies carcinoma extending into the stalk. A week later, the patient has a hemicolectomy (code 40). Code the hemicolectomy since it is the most invasive, definitive surgery.

- (2) If multiple fields are available to record consecutive surgical events, code each consecutive surgery of the primary site. For the example above, record both procedures, each with its respective date. Record the polypectomy date as the date of first course of treatment.

b. Coding Surgery for Multiple Primaries

Code the appropriate surgery for each site when multiple primaries are excised at the same time.

Example 1: A patient who has cancer of the cervix and of the endometrium enters your facility for a total abdominal hysterectomy. Code a total abdominal hysterectomy for each of the two primaries.

Example 2: A patient has colon and skin cancer. The patient had a hemicolectomy and a wide excision of the skin lesion. Code the colectomy for colon and the wide excision for skin.

- c. If a surgical procedure removes the remaining portion of an organ that had been partially resected previously for any condition, code as total removal of the organ. If none of the primary organ remains, the code should indicate that this is the case.

Example 1: Resection of a stomach that had been partially excised previously is coded as total removal of stomach.

Example 2: Removal of a cervical stump is coded as total removal of uterus.

Example 3: Lobectomy of a lung with a previous wedge resection is coded as total removal of lobe.

- d. Code 98 applies to specific tumors that cannot be clearly defined in terms of primary or non-primary site. Use code 98 for the following:
 - All hematopoietic, reticuloendothelial, immunoproliferative, myeloproliferative diseases;
 - All unknown primaries and ill-defined sites.

Exception: For death certificate only cases, use code 99.

- e. For extra-lymphatic lymphoma, code surgery using the site-specific surgery coding scheme for the primary site (not the lymph node scheme).
- f. For facilities that collect *Palliative Care*: If the procedure coded in this item was provided to prolong a patient's life by controlling symptoms, to alleviate pain, or to make the patient more comfortable, then also record this surgery in the *Palliative Care* field. The State Registry does not collect the *Palliative Care* data item.

DATE OF SURGERY FLAG

Item Length: 2

Data Type: Numeric

ACoS: Required

State Registry: Required

Description

This flag explains why there is no appropriate value in the corresponding date field, *Date of First Surgical Procedure* (NAACCR Item #1200). This data item was added to Volume II Version 12 (effective January 2010).

Rationale

Prior to version 12 (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields.

Codes

- 10 No information whatsoever can be inferred from this exceptional value. (It is unknown if any surgical procedure was performed.)
- 11 No valid date is applicable in this context (for example, no surgical procedure was performed).
- 12 A valid date is applicable but not known. (Surgery was performed but the date is unknown.)
- Blank A valid date is coded in item *Date of First Surgical Procedure* (NAACCR Item #1200).

Instructions

- Leave this item blank if *Date of First Surgical Procedure* (NAACCR Item #1200) has a full or partial date recorded.
- Use code 12 if the *Date of First Surgical Procedure* cannot be determined, but the patient did receive first course surgery.
- Use code 10 if it is unknown whether any surgery was performed.
- Use code 11 if the no surgical procedure was performed.
- Code this data item (when appropriate) even if your software uses the traditional format for date entry.

Examples:

Description	Date (Leave unknown portions blank.)	Date of Surgery Flag
Full date known	*01/08/2015 or 2015/01/08	Blank
Month & year known	*01/_/_/2015 or 2015/01/_/_	Blank
Year only known	*_/_/_/2015 or 2015/_/_/_	Blank
Unknown if surgery performed	*_/_/_/____ or ____/_/_	10
No surgery performed	*_/_/_/____ or ____/_/_	11
Surgery performed, date unknown	*_/_/_/____ or ____/_/_	12

* For date entry, your software may use the traditional format (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format. The computer will store either in the interoperable format.

SCOPE OF REGIONAL LYMPH NODE SURGERY

Item Length: 1
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This item identifies the removal, biopsy, or aspiration of regional lymph node(s) at the time of surgery of the primary site or during a separate surgical event. The item can be used to compare and evaluate the extent of surgical treatment.

Codes

- 0 None
- 1 Biopsy or aspiration of regional lymph node(s)
- 2 Sentinel lymph node biopsy (only)
- 3 Number of regional nodes removed unknown or not stated; regional lymph nodes removed, NOS
- 4 1 to 3 regional lymph nodes removed
- 5 4 or more regional lymph nodes removed
- 6 Sentinel node biopsy and procedures that would be coded 3, 4, or 5 performed at the same time, or timing not stated
- 7 Sentinel node biopsy and procedures that would be coded 3, 4, or 5 performed at different times
- 9 Unknown or not applicable

Use the operative report as the primary source document to determine whether the operative procedure was a sentinel lymph node biopsy (SLNBx), or a more extensive dissection of regional lymph nodes, or a combination of both SLNBx and regional lymph node dissection. Review both the surgeon's planned procedure as well as the description of the procedure that was actually performed. The operative report takes precedence over the pathology report for distinguishing between SLNBx and regional lymph node dissection or a combination of these two procedures. Do not use the number of lymph nodes removed and pathologically examined as the sole means of distinguishing between a SLNBx and a regional lymph node dissection.

Definitions

Code	Definition
0	No regional lymph node surgery. No lymph nodes found in the pathologic specimen. Diagnosed at autopsy.
1	Biopsy or aspiration of regional lymph node(s) regardless of the extent of involvement of disease. Notes: If additional procedures were performed on the lymph nodes, use the appropriate code 2-7. For breast, biopsy or aspiration of regional lymph node(s) is uncommon. Confirm that the procedure was not actually a sentinel lymph biopsy.
2	Biopsy of the first lymph node or nodes that drain a defined area of tissue within the body. Sentinel node(s) are identified by the injection of a dye, radio-label, or a combination at the site of the primary tumor. Notes: Additional non-sentinel nodes can be taken during the same operative procedure. The additional nodes may be discovered by the pathologist or selectively removed (harvested) as part of the SLNBx procedure by the surgeon. If the operative report confirms that a regional lymph node dissection followed the SLNBx, use code 6.
3	Sampling or dissection of regional lymph node(s) and the number of nodes removed is unknown or not stated. The procedure is not specified as sentinel node biopsy.

Code	Definition
4	Sampling or dissection of regional lymph node(s) with fewer than four lymph nodes found in the specimen. Note: Code 4 should be used infrequently. Ensure that the procedure is not specified as SLNBx in the operative report.
5	Sampling or dissection of four or more regional lymph nodes. Notes: If relatively few nodes were examined pathologically, review the operative report to confirm the procedure was not a SLNBx only (code 2). If a relatively large number of nodes was examined pathologically, review the operative report to confirm that there was not a SLNBx in addition to a more extensive regional lymph node dissection during the same, or separate, procedure (code 6 or 7).
6	SLNBx and procedures that would be coded 3, 4, or 5 performed at the same time, or timing not stated. Notes: Generally, SLNBx followed by a regional lymph node completion will yield a relatively large number of nodes. However, it is possible for these procedures to harvest only a few nodes. If relatively few nodes were examined pathologically, review the operative report to confirm the procedure was not a SLNBx only (code 2). If a SLNBx is attempted and the patient fails to map (no sentinel lymph nodes are identified by the dye and/or radio-label injection) and the surgeon performs a more extensive dissection of regional lymph nodes, use code 6.
7	SLNBx and regional lymph node dissection (code 3, 4, or 5) in separate surgical events. Notes: Generally, SLNBx followed by a regional lymph node completion will yield a relatively large number of nodes. However, it is possible for these procedures to harvest only a few nodes. If relatively few nodes were examined pathologically, review the operative report to confirm the procedure was not a SLNBx only (code 2).
9	It is unknown whether regional lymph node surgery was performed; death certificate-only; for lymphomas with a lymph node primary site; an unknown or ill-defined primary; or for hematopoietic, reticuloendothelial, immunoproliferative, or myeloproliferative disease.

Instructions

- a. Record the scope of regional lymph node surgery for each surgical event even if no surgery of the primary site was performed.
- b. Record surgical procedures that aspirate, biopsy, or remove regional lymph nodes in an effort to diagnose or stage disease in this data item. Record the date of this surgical procedure in data item *Date of First Course Treatment* and/or *Date of First Surgical Procedure* as appropriate.
- c. Codes 0-7 are hierarchical. If only one procedure can be recorded, code the procedure that is numerically higher.
- d. If two or more surgical procedures of regional lymph nodes are performed, the code for each subsequent procedure must include the cumulative effect of all preceding procedures. For example, a sentinel lymph node biopsy followed by a regional lymph node dissection at a later time is coded 7.
- e. Code the removal of regional nodes for both primaries when the patient has two primaries with common regional lymph nodes.
- f. Use code 9 for the following:
 - Primaries of the meninges, brain, spinal cord, cranial nerves, and other parts of the central nervous system (C70.0-C70.9, C71.0-C71.9, C72.0-C72.9, C75.1-C75.3);
 - Lymphomas (histologies 9590-9726, 9728-9732, 9734-9740, 9750-9762, 9811-9831, 9940, 9948, and 9971) with a lymph node primary site (C77.0-C77.9);
 - Unknown or ill-defined primary (C76.0-C76.8, C80.9);

- Hematopoietic, reticuloendothelial, immunoproliferative, myeloproliferative, or myelodysplastic disease (C42.0, C42.1, C42.3, C42.4, or histologies 9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992).
- g. Do not code *distant* lymph nodes removed during surgery to the primary site for this data item. Distant nodes are coded in the data field *Surgical Procedure/Other Site*.
- h. Refer to the current *AJCC Cancer Staging Manual* for site-specific identification of regional lymph nodes.
- i. For facilities that collect *Palliative Care*: If the procedure coded in this item was provided to prolong a patient's life by controlling symptoms, to alleviate pain, or to make the patient more comfortable, then also record this surgery in the *Palliative Care* field. The State Registry does not collect the *Palliative Care* data item.

Codes with Examples:

- 0 No effort was made to locate sentinel lymph nodes and no nodes were found in pathologic analysis.
- 2 Primary site is breast (C50.1). There was an attempt at sentinel lymph node dissection, but no lymph nodes were found in the pathological specimen.
- 1 Primary site is pharynx (C14.0). Aspiration of regional lymph node was performed to confirm histology of widely metastatic disease.
- 2 Primary site is skin of back (C44.5). Histology is melanoma. A sentinel lymph node dissection was done with the removal of one lymph node. This node was negative for disease.
- 3 Primary site is prostate (C61.9). Bilateral pelvic lymph node dissection was performed.
- 6 Primary site is breast (C50.3). Sentinel lymph node biopsy of right axilla, followed by right axillary lymph node dissection during the same surgical event.
- 7 Primary site is breast (C50.4). Sentinel lymph node biopsy of left axilla, followed by a left axillary lymph node dissection in a second procedure 5 days later.
- 9 Primary site is lung (C34.9). Patient was admitted for radiation therapy following surgery for lung cancer. There is no documentation on the extent of surgery in the patient record.

SURGICAL PROCEDURE/OTHER SITE

Item Length: 1
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This item records the surgical removal of distant lymph nodes or other tissue(s)/organ(s) beyond the primary site.

Codes

- 0 None
- 1 Nonprimary surgical procedure performed, unknown whether regional or distant
- 2 Nonprimary surgical procedure to other regional sites
- 3 Nonprimary surgical procedure to distant lymph node(s)
- 4 Nonprimary surgical procedure to distant site
- 5 Combination of codes
- 9 Unknown

Definitions

Code	Definition
0	No surgical procedure of nonprimary site was performed. Diagnosed at autopsy.
1	Nonprimary surgical resection other site(s), unknown if the site(s) is regional or distant.
2	Resection of regional site.
3	Resection of distant lymph node(s).
4	Resection of distant site.
5	Any combination of surgical procedures that would be coded 2, 3, or 4.
9	It is unknown whether any surgical procedure of a nonprimary site was performed. Death certificate only.

Instructions

- a. Assign the highest numbered code that describes the surgical resection of other tissue or organs beyond the primary site surgery code.
- b. Do not code incidental removal of tissue or organs as *Surgical Procedure/Other Site*.
- c. Record the *Surgical Procedure/Other Site* for each surgical event even if no surgery of the primary site was performed.
- d. Use code 1 if any surgery is performed to treat tumors of unknown or ill-defined primary sites (C76.0-C76.8, C80.9) or for hematopoietic, reticuloendothelial, immunoproliferative, myeloproliferative, or myelodysplastic disease (C42.0, C42.1, C42.3, C42.4 or 9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992).
- e. If multiple first course surgical procedures coded in this item are performed for a single primary, use the code that represents the cumulative effect of those surgeries.
- f. For facilities that collect *Palliative Care*: If the procedure coded in this item was provided to prolong a patient's life by controlling symptoms, to alleviate pain, or to make the patient more comfortable, then also record this surgery in the *Palliative Care* field. The State Registry does not collect the *Palliative Care* data item.

Codes with Examples:

- 0 Primary site is colon (C18.1). The incidental removal of the appendix during a surgical procedure to remove a primary malignancy in the right colon.
- 1 Surgical removal of metastatic lesion from liver; unknown primary.
- 2 Primary site is colon (C18.3). Surgical ablation of solitary liver metastasis, hepatic flexure primary.
- 4 Primary site is rectosigmoid (C19.9). Excision of multiple liver metastasis.
- 4 Primary site is lung (C34.9). Removal of solitary brain metastasis.
- 5 Primary site is anus (C21.0). Excision of solitary liver metastasis and one large hilar lymph node.

REASON FOR NO SURGERY OF PRIMARY SITE

Item Length: 1
Data Type: Numeric
ACoS: Required
State Registry: *Required

*Required if available for cases diagnosed 01/01/2006 and later.

Description

This is an optional 1-character field for recording the reason that no surgery was performed on the primary site. This item is related only to first course of therapy. This information is to be coded if it is available in the medical record.

Codes

- 0 Surgery of the primary site was performed.
- 1 Surgery of primary site was not performed because it was not part of the planned first course treatment. Diagnosed at autopsy.
- 2 Surgery of the primary site was not recommended/performed because it was contraindicated due to patient risk factors (comorbid conditions, advanced age, progression of tumor prior to planned surgery, etc.).
- 5 Surgery of the primary site was not performed because the patient died prior to planned or recommended surgery.
- 6 Surgery of the primary site was not performed. It was recommended by the patient's physician, but was not performed as part of the first course of therapy. No reason was noted in the patient record.
- 7 Surgery of the primary site was not performed. It was recommended by the patient's physician but this treatment was refused by the patient, the patient's family member, or the patient's guardian. The refusal was noted in the patient record.
- 8 Surgery of the primary site was recommended, but it is unknown if it was performed. Further follow-up is recommended.
- 9 It is unknown whether surgery of the primary site was recommended or performed. Death certificate only cases.

Instructions

- a. If *Surgical Procedure of Primary Site* is coded 00, then record the reason based on documentation in the patient record.
- b. Use code zero (0) if the record specifies that surgery of the primary site was performed. (Surgery of Primary Site is coded in the range of 10-90.)
- c. Use code 1 if the treatment plan offered multiple alternative treatment options and the patient selected treatment that did not include surgery of the primary site, or if the option of, "no treatment," was accepted by the patient.
- d. Use code 1 if *Surgical Procedure of Primary Site* is coded 98.
- e. Use code 7 if the patient refused recommended surgical treatment, made a blanket refusal of all recommended treatment, or refused all treatment before any was recommended.
- f. Use code 8 if it is known that a physician recommended primary site surgery, but no further documentation is available yet to determine whether surgery was performed. Cases coded 8 should be followed and updated to a more definitive code as appropriate.
- g. Use code 9 if the treatment plan offered multiple choices, but it is unknown which treatment, if any, was provided.

Codes with Examples:

- 2 A patient with a primary tumor of the liver is not recommended for surgery due to advanced cirrhosis.
- 8 A patient is referred to another facility for recommended surgical resection of a gastric carcinoma, but further information from the facility to which the patient was referred is not available.

REGIONAL RADIATION TREATMENT MODALITY

Item Length: 2
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This is a required 2-character field to record the dominant modality of radiation therapy used to deliver the most clinically significant regional dose to the primary volume of interest during the first course of treatment. Record radiation delivered at your facility, as well as radiation done in any other facilities, if known.

Codes and Definitions

Codes	Label	Definition
00	No radiation treatment	Radiation therapy was not administered to the patient. Diagnosed at autopsy.
20	External beam, NOS	The treatment is known to be by external beam, but there is insufficient information to determine the specific modality.
21	Orthovoltage	External beam therapy administered using equipment with a maximum energy of less than one (1) million volts (MV). Orthovoltage energies are typically expressed in units of kilovolts (kV).
22	Cobalt-60, Cesium-137	External beam therapy using a machine containing either a Cobalt-60 or Cesium-137 source. (Intracavitary use of these sources is coded either 50 or 51.)
23	Photons (2-5 MV)	External beam therapy using a photon producing machine with a beam energy in the range of 2-5 MV.
24	Photons (6-10 MV)	External beam therapy using a photon producing machine with a beam energy in the range of 6-10 MV.
25	Photons (11-19 MV)	External beam therapy using a photon producing machine with a beam energy in the range 11-19 MV.
26	Photons (> 19 MV)	External beam therapy using a photon producing machine with a beam energy of more than 19 MV.
27	Photons (mixed energies)	External beam therapy using more than one energy over the course of treatment.
28	Electrons	Treatment delivered by electron beam.
29	Photons and electrons mixed	Treatment delivered using a combination of photon and electron beams.
30	Neutrons, with or without photons/electrons	Treatment delivered using neutron beam.
31	IMRT	Intensity modulated radiation therapy, an external beam technique that should be clearly stated in the patient record.
32	Conformal or 3-D therapy	An external beam technique using multiple, fixed portals shaped to conform to a defined target volume. Should be clearly described as conformal or 3-D therapy in the patient record.
40	Protons	Treatment delivered using proton therapy.
41	Stereotactic radiosurgery, NOS	Treatment delivered using stereotactic radiosurgery, type not specified in the patient record.

Codes	Label	Definition
42	Linac radiosurgery	Treatment categorized as using stereotactic technique delivered with a linear accelerator.
43	Gamma Knife	Treatment categorized as using stereotactic technique delivered using a Gamma Knife machine.
50	Brachytherapy, NOS	Brachytherapy, interstitial implants, molds, seeds, needles, radioembolization, or intracavitary applicators of radioactive materials not otherwise specified.
51	Brachytherapy, intracavitary, LDR	Intracavitary (no direct insertion into tissues) radioisotope treatment using low dose rate applicators and isotopes (Cesium-137, Fletcher applicator).
52	Brachytherapy, intracavitary, HDR	Intracavitary (no direct insertion into tissues) radioisotope treatment using high dose rate after-loading applicators and isotopes.
53	Brachytherapy, interstitial, LDR	Interstitial (direct insertion into tissues) radioisotope treatment using low dose rate sources.
54	Brachytherapy, interstitial, HDR	Interstitial (direct insertion into tissues) radioisotope treatment using high dose rate sources.
55	Radium	Infrequently used for low dose rate (LDR) interstitial and intracavitary therapy.
60	Radioisotopes, NOS	Iodine-131, Phosphorus-32, etc.
61	Strontium-89	Treatment primarily by intravenous routes for bone metastases.
62	Strontium-90	(not defined in <i>FORDS</i>)
80 *	Combination modality, specified *	Combination of external beam radiation and either radioactive implants or radioisotopes. *
85 *	Combination modality, NOS *	Combination of radiation treatment modalities not specified by code 80. *
98	Other, NOS	Radiation therapy administered, but the treatment modality is not specified or is unknown.
99	Unknown	It is unknown whether radiation therapy was administered. Death certificate only.

*** Note:** For cases diagnosed prior to January 1, 2003, the codes reported in this data item describe any radiation administered to the patient as part or all of the first course of therapy. Codes 80 and 85 describe specific conversion of radiation therapy coded according to earlier coding rules and **should not** be used to record regional radiation for cases diagnosed on or later than January 1, 2003.

Instructions

- a. Select the code for the regional radiation treatment modality that the patient received as part of the first course of treatment. Record all radiation that is given as part of first course therapy, even if it is palliative.
 - (1) Radiation treatment modality will typically be found in the radiation oncologist's summary letter for the first course of treatment. Segregation of treatment components into regional and boost and determination of the respective treatment modality may require assistance from the radiation oncologist to ensure consistent coding.
 - (2) In the event multiple radiation therapy modalities were employed in the treatment of the patient, record only the dominant modality.
 - (3) Note that in some circumstances the boost treatment may precede the regional treatment.
 - (4) For purposes of this data item, photons and x-rays are equivalent.
 - (5) Code radioembolization as brachytherapy.

- (6) Do not confuse a radioiodine *scan* with treatment. Only treatment is coded in this item.
- b. In the *Regional Radiation Treatment Modality* field, enter the code from the list above for the radiation treatment modality that the patient received.
For RMCDS users, record the date the radiation treatment started in a hospital-specific treatment screen in the date field adjacent to the *Radiation* item.
- c. If only one radiation treatment modality is delivered to a patient and it is not specified as either regional or boost treatment, assume it's regional treatment and code in *Regional Radiation Treatment Modality*.

Codes with Examples:

- 00 PUVA (psoralen and long-wave ultraviolet radiation) is used to treat melanoma. Record PUVA treatment as Code 1 in *Other Treatment*.
- 20 A patient with prostate carcinoma receives pelvic irradiation at the reporting facility, and is then referred to a major medical center for experimental proton therapy boost.
- 24 A patient treated with breast conserving surgery has an interstitial boost at the time of the excisional biopsy. The implant uses Ir-192 and is left in place for three days. This is followed by 6 MV photon treatment of the entire breast. In this case, the "boost" precedes the regional treatment.
- 25 In an experimental program, a patient with as Stage III carcinoma of the prostate receives 4,500 cGy to the pelvis using 15 MV photons, and then the prostate receives a 600 cGy boost with neutrons.
- 25 Patient receives 15 MV external pelvic treatment to 4,500 cGy for cervical carcinoma, and then receives two Fletcher intracavitary implants.
- 29 A patient with carcinoma of the parotid receives daily treatments of which 60% are delivered by 15 MV photons and 40% of the dose is delivered by 16 MV electrons.
- 50 Yttrium-90 microsphere radioembolization is used to treat an inoperable liver cancer.
- 53 A prostate cancer patient is treated with I-125 seeds. I-125 is low dose brachytherapy.
- 98 A patient with a head and neck cancer underwent regional radiation treatment elsewhere and was referred to the reporting facility for an HDR brachytherapy boost. Detailed treatment records from the other facility are not available.

Radiation Treatment Summary Codes

(For RMCDS users, record in the single digit field above the *Regional Radiation Treatment Modality* field.)

- 0 No radiation therapy, diagnosed at autopsy (Radiation treatment modality code 00.)
- 1 Beam radiation (Radiation treatment modality codes 20 through 43.)
Examples: X-ray, cobalt, linear accelerator, neutron beam, betatron, spray radiation, intraoperative radiation, and stereotactic radiosurgery, such as gamma knife and proton beam, regardless of the source of the radiation.
- 2 Radioactive implants (Radiation treatment modality codes 50 through 55.)
Examples: Brachytherapy, interstitial implants, molds, seeds, needles, radioembolization, or intracavity applicators of radioactive materials, such as cesium, radium, radon, and radioactive gold.
- 3 Radioisotopes (Radiation treatment modality codes 60 through 62.)
Examples: Internal use of radioactive isotopes, such as iodine-131, phosphorus-32, strontium 89 and 90. Can be given orally, intracavitarily, or by intravenous injection.
- 4 Combinations of beam radiation (code 1) with radioactive implants (code 2) and/or radioisotopes (code 3) (Radiation treatment modality codes 80 or 85.)
The patient was treated with a combination of beam radiation and at least one of the two methods described by codes 2 and 3.
- 5 Radiation therapy, NOS - method or source not specified (Radiation treatment modality code 98.)
- 7 Patient or patient's guardian refused radiation therapy.
- 8 Radiation recommended, unknown if administered.

- 9 Unknown if radiation therapy recommended or performed; death certificate only cases. (Radiation treatment modality code 99.)

DATE OF RADIATION FLAG

Item Length: 2
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This flag explains why there is no appropriate value in the corresponding date field, *Date Radiation Started* (NAACCR Item #1210). This data item was added to Volume II Version 12 (effective January 2010).

Rationale

Prior to version 12 (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields.

Codes

- 10 No information whatsoever can be inferred from this exceptional value. (It is unknown whether any radiation therapy administered.)
- 11 No valued date is applicable in this context (for example, no radiation therapy administered).
- 12 A valid date is applicable but not known. (Radiation therapy was administered but the date is unknown.)
- 15 Information is not available at this time, but it is expected that it will be available later. (Radiation therapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow-up.)
- Blank A valid date value is provided in item *Date Radiation Started* (NAACCR Item #1210). The case was diagnosed between 2003 and 2009 and the *Date Radiation Started* was not recorded by the facility.

Instructions

- Leave this item blank if the *Date Radiation Started* (NAACCR Item #1210) has a full or partial date recorded.
- Use code 12 if the *Date Radiation Started* cannot be determined, but the patient did receive first course radiation.
- Use code 10 if it is unknown whether any radiation was given.
- Use code 11 if no radiation is planned or given.
- Use code 15 if radiation is planned, but not yet started and the start date is not yet available. Follow this patient for radiation treatment and update this item, *Date Radiation Started*, and the relevant radiation items.
- Code this data item (when appropriate) even if your software uses the traditional format for date entry.

Examples:

Description	Date (Leave unknown portions blank.)	Date of Radiation Flag
Full date known	*01/08/2015 or 2015/01/08	Blank
Month & year known	*01/_/_/2015 or 2015/01/_/_	Blank
Year only known	*_/_/_/2015 or 2015/_/_/_	Blank
Unknown if radiation given	*_/_/_/_ or _/_/_/_	10
No radiation given	*_/_/_/_ or _/_/_/_	11
Radiation given, date unknown	*_/_/_/_ or _/_/_/_	12
Radiation planned, not started yet	*_/_/_/_ or _/_/_/_	15

* For date entry, your software may use the traditional format (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format. The computer will store either in the interoperable format.

RADIATION/SURGERY SEQUENCE

Item Length: 1
 Data Type: Numeric
 ACoS: Required
 State Registry: *Required

*Required if available for cases diagnosed 01/01/2006 and later.

Description

This is a required 1-character field to record a code that indicates the sequencing of radiation and surgical procedures during the first course of treatment. Surgical procedures include *Surgical Procedure of Primary site*, *Scope of Regional Lymph Node Surgery*, and *Surgical Procedure/Other Site*.

Codes

- 0 No radiation therapy and/or surgical procedures
- 2 Radiation therapy before surgery
- 3 Radiation therapy after surgery
- 4 Radiation therapy both before and after surgery
- 5 Intraoperative radiation therapy
- 6 Intraoperative radiation therapy with other therapy administered before or after surgery
- 7 Surgery both before and after radiation
- 9 Sequence unknown, but both surgery and radiation therapy were given

Definitions

Code	Definition
0	No radiation therapy given or unknown if radiation given; and/or no surgery of the primary site; no scope of regional lymph node surgery; no surgery to other regional site(s), distant site(s), or distant lymph node(s) or it is unknown whether any surgery performed.
2	Radiation therapy given before surgery to primary site; scope of regional lymph node surgery; surgery to other regional site(s), distant site(s), or distant lymph node(s).
3	Radiation therapy given after surgery to primary site; scope of regional lymph node surgery; surgery to other regional site(s), distant site(s), or distant lymph node(s).
4	At least two courses of radiation therapy are given before and at least two more after any surgery to primary site; scope of regional lymph node surgery; surgery to other regional site(s), distant site(s), or distant lymph node(s).
5	Intraoperative therapy given during surgery to primary site; scope of regional lymph node surgery; surgery to other regional site(s), distant site(s), or distant lymph node(s).
6	Intraoperative radiation therapy given during surgery to primary site; scope of regional lymph node surgery; surgery to other regional site(s), distant site(s), or distant lymph node(s) with other radiation therapy administered before or after surgery to primary site; scope of regional lymph node surgery; surgery to other regional site(s), distant site(s), or distant lymph node(s).
7	Radiation was administered between two separate surgical procedures to the primary site; regional lymph nodes; surgery to other regional site(s), distant site(s), or distant lymph node(s).
9	Administration of radiation therapy and surgery to primary site; scope of regional lymph node surgery; surgery to other regional site(s), distant site(s), or distant lymph node(s) were performed and the sequence of the treatment is not stated in the patient record.

Instructions

- a. If the patient did not receive **both** radiation therapy and surgery during the first course of therapy, record code 0. Code 0 (no radiation therapy and or surgical procedures) includes the following types of cases:
 - (1) Patients who received neither radiation therapy nor surgery;
 - (2) Patients who received radiation therapy but no surgery;
 - (3) Patients who received surgery but were not treated with radiation therapy; or

(4) It is not known whether the patient received both surgery and radiation.

- b. For patients who had both surgery and radiation, enter the code that describes the sequence in which the patient received radiation therapy and surgery during the first course of therapy. Code this item 2-9, as appropriate, if the patient received both radiation therapy and any one or a combination of the following surgical procedures: *Surgical Procedure of Primary Site, Regional Lymph Node Surgery, or Surgical Procedure/Other Site*.

Code in the range of 2-9 only if the patient had both surgery and radiation therapy as first course treatment. Surgical Diagnostic and Staging Procedures (codes 01-09) do not qualify.

- c. If multiple first course treatment episodes were given such that both codes 4 and 7 seem to apply, use the code that defines the first sequence that applies.

Codes with Examples:

- 0 Due to other medical conditions surgery was not performed. The patient received palliative radiation therapy to alleviate pain.
- 2 A large lung lesion was treated with radiation therapy prior to resection.
- 3 A patient received a wedge resection of a right breast mass with axillary lymph node dissection followed by radiation to right breast.
- 4 Preoperative radiation therapy was given to a large, bulky vulvar lesion and was followed by a lymph node dissection. This was then followed by radiation therapy to treat positive lymph nodes.
- 5 A cone biopsy of the cervix was followed by intracavitary implant for IIB cervical carcinoma.
- 6 Stage IV vaginal carcinoma was treated with 5,000 cGy to the pelvis followed by a lymph node dissection and 2,500 cGy of intracavitary brachytherapy.
- 9 An unknown primary of the head and neck was treated with surgery and radiation prior to admission, but the sequence is unknown. The patient enters for chemotherapy.

REASON FOR NO RADIATION

Item Length: 1
 Data Type: Numeric
 ACoS: Required
 State Registry: *Required

*Required if available for cases diagnosed 01/01/2011 and later.

Description

This is a required 1-character field to record a code that indicates the reason no regional radiation therapy was administered to the patient.

Codes

- 0 Radiation therapy was administered.
- 1 Radiation therapy was not administered because it was not part of the planned first course treatment. Diagnosed at autopsy.
- 2 Radiation therapy was not recommended/administered because it was contraindicated based on other patient risk factors (comorbid conditions, advanced age, progression of tumor prior to planned radiation, etc.).
- 5 Radiation therapy was not administered because the patient died prior to planned or recommended therapy.
- 6 Radiation therapy was not administered; it was recommended by the patient's physician, but was not administered as part of first course treatment. No reason was noted in patient record.
- 7 Radiation therapy was not administered; it was recommended by the patient's physician, but was refused by the patient, the patient's family member, or the patient's guardian. The refusal was documented in the patient record.
- 8 Radiation therapy was recommended, but it is unknown whether it was administered.
- 9 It is unknown if radiation therapy was recommended or administered. Death certificate only cases.

Instructions

1. If *Regional Treatment Modality* is coded 00 (not performed), record a code that indicates the reason based on patient record documentation.
2. Record code 1 if the treatment plan included multiple alternative treatment options and the patient selected treatment that did not include radiation therapy.

Example: A patient is offered either surgery or brachytherapy to treat his stage 1 prostate and chooses surgical treatment. Record code 1 in *Reason for No Radiation*.

3. Record code 7 if the patient refused recommended radiation therapy, made a blanket refusal of all recommended treatment, or refused all treatment before any was recommended.
4. Record code 8 if it is known that a physician recommended radiation treatment, but no further documentation is available yet to confirm its administration.
5. Record code 8 to indicate referral to a radiation oncologist was made and the registry should follow to determine whether radiation was administered. If follow-up to the specialist or facility determines the patient was never there and no other documentation can be found, change the code to 1.
6. Cases coded to 8 should be followed and updated to a more definitive code as indicated.
7. Record code 9 if the treatment plan included multiple alternative treatment options, but it is unknown which treatment, if any, was provided.

CHEMOTHERAPY

Item Length: 2
Data Type: Numeric
ACoS: Required
State Registry: Required

Description

This is a required 2-character field to record chemotherapy administered as first course of therapy. If chemotherapy was not administered, this item records the reason it was not administered to the patient. Chemotherapy consists of a group of anticancer drugs that inhibit the reproduction of cancer cells by interfering with DNA synthesis and mitosis.

Record chemotherapy administered at your facility, as well as chemotherapy given at any other facilities, if known.

Codes

- 00 None, chemotherapy was not part of the planned first course of therapy; diagnosed at autopsy.
- 01 Chemotherapy administered as first course therapy, but the type and number of agents is not documented in the patient record.
- 02 Single-agent chemotherapy administered as first course therapy.
- 03 Multiagent chemotherapy administered as first course therapy.
- 82 Chemotherapy was not recommended/administered because it was contraindicated due to patient risk factors (e.g., comorbid conditions, advanced age, progression of tumor prior to administration, etc.).
- 85 Chemotherapy was not administered because the patient died prior to planned or recommended therapy.
- 86 Chemotherapy was not administered. It was recommended by the patient's physician, but was not administered as part of the first course of therapy. No reason was stated in the patient record.
- 87 Chemotherapy was not administered. It was recommended by the patient's physician, but this treatment was refused by the patient, a patient's family member, or the patient's guardian. The refusal was noted in the patient record.
- 88 Chemotherapy was recommended, but it is unknown if it was administered.
- 99 It is unknown whether a chemotherapeutic agent(s) was recommended or administered because it is not stated in the patient record. Death certificate only.

Instructions

- a. Select the code for the type of chemotherapy that the patient received as part of the first course of treatment. Record chemotherapy as cancer-directed therapy when it is delivered concurrently or as adjuvant treatment.
 - (1) Use code 00 if chemotherapy was not administered to the patient, and it is known that it is not usually administered for this type and stage of cancer.
 - (2) Use code 00 if the treatment plan offered multiple alternative treatment options and the patient selected treatment that did not include chemotherapy.
 - (3) Use code 00 if the option of, "no treatment," was accepted by the patient.
 - (4) Code chemoembolization as 01, 02, or 03 depending on the number of chemotherapeutic agents agents used.
 - (5) If it is known that chemotherapy is usually administered for this type and stage of cancer, but was not administered to the patient, use code 82, 85, 86, or 87 to record the reason it was not administered.
 - (6) Use code 87 if the patient refused recommended chemotherapy, made a blanket refusal of all recommended treatment, or refused all treatment before any was recommended.
 - (7) Use code 88 if it is known that a physician recommended the patient receive chemotherapy, but no further documentation is available yet to confirm its administration.
 - (8) Use code 88 to indicate referral was made medical oncologist and the registry must follow to determine whether it was given. If follow-up with the specific specialist or facility indicates the patient was never there, use code 00.

- (9) Use code 99 if it is not known whether chemotherapy is usually administered for this type and stage of cancer and there is no mention in the patient record whether it was recommended or administered.
 - (10) If a chemotherapy drug is given for a reason other than cancer-directed treatment, do not code the drug as chemotherapy. If in doubt whether the chemotherapy drug is given to alleviate a symptom and not for cancer-directed treatment, consult your oncologist or oncology nurse.
 - (11) For facilities that collect *Palliative Care*: If chemotherapy was provided to prolong a patient's life by controlling symptoms, to alleviate pain, or to make the patient more comfortable, then also record the chemotherapy provided in the *Palliative Care* field. The State Registry does not collect the *Palliative Care* data item.
- b. In the *Chemotherapy* field, enter the code from the list above for the chemotherapy that the patient received. For RMCDS users, record the date the course of chemotherapy was started in the adjacent "Date" field.
- Example:* Single agent chemotherapy 5-FU was started on July 15, 2011 at a physician's office as part of the first course of treatment. The treatment would be entered as follows:
Chemotherapy code 02, Date: 07/15/2011.
- c. One planned course of chemotherapy may be given in several segments. These segments are recorded as one course. The date listed for that course of chemotherapy should be the date the first segment of that course began.
- d. Two or more single agents given at separate times during the first course of cancer-directed therapy are considered a combination regimen and coded 03 (chemotherapy, multiple agents). If two or more single agents are given at different times after the first course, it is subsequent treatment and can be recorded in the "Subsequent Treatment" RMCDS screens. The State Registry does not collect subsequent treatment.

Chemotherapy Information and Definitions

- a. Refer to the *SEER*Rx Interactive Drug Database* (<http://seer.cancer.gov/>) to determine whether the drugs used are classified as chemotherapeutic agents.
- b. Chemotherapeutic agents may be administered by intravenous infusion or given orally. Other methods of administration include:
- Intrathecal.** Administered directly into the cerebrospinal fluid through a lumbar puncture needle into an implanted access device (Ommaya reservoir).
- Pleural/pericardial.** Injected directly into pleural or pericardial space to control malignant effusions.
- Intraperitoneal.** Injected into the peritoneal cavity.
- Hepatic artery.** Injected into a catheter inserted into the artery that supplies blood to the liver.
- c. Chemotherapy agents may be administered singly or in a combination regimen of two or more chemotherapy drugs. They are administered in treatment cycles. The time span of a treatment cycle varies. It is dependent upon the histology, stage of disease, and treatment modalities. Chemotherapy may be administered for several weeks or several years.
- d. Clarification of terms:
- (1) **Concurrent chemotherapy** (multimodality therapy, combined modality therapy) is given before, during, or after other treatment modalities (surgery, radiation, etc.) as part of the treatment plan.
 - (2) **Adjuvant chemotherapy** is given after other methods have destroyed the clinically detectable cancer cells. Chemotherapy is given to destroy micrometastases (undetectable cancer cells). The intent is to prevent or delay a recurrence.
- Example:* A patient has breast cancer with positive nodes. All detectable tumor is removed by a modified radical mastectomy. The patient receives adjuvant chemotherapy to destroy any micrometastasis that may be present. The chemotherapy is given to delay or prevent a recurrence.

- (3) **Neoadjuvant therapy** is given prior to surgical resection or radiation therapy to reduce the bulk of a locally advanced primary cancer.

Example: A patient with locally advanced breast cancer receives chemotherapy to reduce tumor size. Chemotherapy is followed by a modified radical mastectomy.

- (4) **Chemoembolization** is a procedure in which the blood supply to the tumor is blocked surgically or mechanically and anticancer drugs are administered directly into the tumor. Code as Chemotherapy when the embolizing agent(s) is a chemotherapeutic drug(s). Use *SEER*Rx Interactive Drug Database* (<http://seer.cancer.gov/>) to determine whether the drugs used are classified as chemotherapeutic agents.

Example: A patient with primary liver cancer is treated using the following procedure: Under x-ray guidance, a small catheter is inserted into an artery in the groin and the catheter tip is threaded into the artery in the liver that supplies blood flow to the tumor. Chemotherapy is injected through the catheter into the tumor and mixed with particles that embolize or block the flow of blood to the tumor.

- (5) **Ancillary drugs** are medications whose actions are not directed at the patient's malignancy per se but that enhance the effects of the cancer-directed therapy. For example, ancillary drugs may modulate the actions of specific chemotherapeutic agents by increasing their effectiveness in destroying tumor cells or by decreasing the potential for specific side effects. Ancillary drugs are not to be coded as cancer-directed therapy.

Example: Folinic acid (leucovorin) stabilizes the drug-enzyme complex and thus increases the cytotoxic effects of 5-FU and is frequently administered with 5-FU for this purpose. Use chemotherapy code 02 (single agent) for 5-FU and leucovorin treatment.

- e. Chemotherapy is divided into the following classifications:

Group	Subgroup(s)	Examples
Alkylating agents	Mustard gas derivatives/ nitrogen mustards	Mechlorethamine, Melphalan, Chlorambucil Cyclophosphamide, and Ifosfamide
	Ethylenimines	Thiotepa and Hexamethylmelamine
	Alkyl sulfonates	Busulfan
	Nitrosoureas	Carmustine, Lomustine, and Streptozotocin
	Hydrazines and Triazines	Altretamine, Procarbazine, Dacarbazine, and Temozolomide
	Metal salts	Carboplatin, Cisplatin, Oxaliplatin
Antimetabolites	Folic acid antagonist	Methotrexate
	Pyrimidine antagonist	5-Fluorouracil (5-FU), Floxuridine, Cytarabine, Capecitabine, and Gemcitabine
	Purine antagonist	6-Mercaptopurine (6-MP) and 6-Thioguanine
	Adenosine deaminase inhibitor	Cladribine, Fludarabine, Nelarabine, and Pentostatin
Natural products	Antitumor antibiotics	Anthracyclines: Doxorubicin, Daunorubicin, Epirubicin, Mitoxantrone, and Idarubicin Chromomycins: Dactinomycin and Plicamycin Miscellaneous: Mitomycin and Bleomycin
	Plant alkaloids	Vinca alkaloids: Vinblastine, Vincristine, and Vinorelbine Taxanes: Paclitaxel and Docetaxel Podophyllotoxins: Etoposide and Teniposide

Group	Subgroup(s)	Examples
	Topoisomerase inhibitors	Camptothecin analogs: Irinotecan and Topotecan Topoisomerase I inhibitors: Irinotecan, Topotecan Topoisomerase II inhibitors: Amsacrine, Etoposide, Etoposide phosphate, and Teniposide
Miscellaneous agents		Ribonucleotide reductase inhibitor: Hydroxyurea Adrenocortical steroid inhibitor: Mitotane Enzymes: Asparaginase and Pegaspargase Antimicrotubule agent: Estramustine Retinoids: Bexaratene, Isotretinoin, Tretinoin (ATRA)
Targeted therapy		A group of newer cancer drugs that act directly against abnormal proteins in cancer cells.

- f. If the patient has an adverse reaction, the physician may change one of the drugs in a combination regimen. If the replacement drug belongs to the same group as the original drug, there is no change in the regimen.

Example: The physician documents a multimodality treatment plan that includes a combination regimen of chemotherapy. Vinblastine is one of the drugs in the chemotherapy regimen. After two cycles of chemotherapy, the physician says the Vinblastine will be replaced with Vincristine and the chemotherapy will continue as planned. This is a continuation of the planned first course of therapy.

If the replacement drug is in a different group than the original drug, it is subsequent therapy.

Exception: Unless there is disease progression, neoadjuvant chemotherapy and all subsequent planned first course of treatment would be recorded as first course, even if there is a change in chemotherapeutic agents and/or groups.

- g. Code the six drugs listed below as BRM, beginning with January 1, 2013 diagnoses. Continue to code cases diagnosed prior to 01/01/2013 as chemotherapy.

Alemtuzumab/Campath
Bevacizumab/Avastin
Rituximab/Rituxan
Trastuzumab/Herceptin
Pertuzumab/Perjeta
Cetuximab/Erbitux

DATE OF CHEMOTHERAPY FLAG

Item Length: 2

Data Type: Numeric

ACoS: Required

State Registry: Required

Description

This flag explains why there is no appropriate value in the corresponding date field, *Date Chemotherapy Started* (NAACCR Item #1220). This data item was added to Volume II Version 12 (effective January 2010).

Rationale

Prior to version 12 (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields.

Codes

- 10 No information whatsoever can be inferred from this exceptional value. (It is unknown if chemotherapy was administered.)
- 11 No proper value is applicable in this context (for example, no chemotherapy was administered).
- 12 A valid date is applicable but not known. (Chemotherapy was administered but the date is unknown.)
- 15 Information is not available at this time, but it is expected that it will be available later. (Chemotherapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow-up.)
- Blank A valid date value is provided in item *Date Chemotherapy Started* (NAACCR Item #1220), or the date was not expected to have been transmitted. The case was diagnosed between 2003 and 2009 and the *Date Chemotherapy Started* was not recorded by the facility.

Instructions

- Leave this item blank if the *Date Chemotherapy Started* has a full or partial date recorded.
- Use code 12 if the *Date Chemotherapy Started* cannot be determined, but the patient did receive first course chemotherapy.
- Use code 10 if it is unknown whether any chemotherapy was administered.
- Use code 11 if no chemotherapy is planned or given.
- Use code 15 if chemotherapy is planned, but not yet started. Follow this patient for chemotherapy and update this item, *Date Chemotherapy Started*, and the relevant chemotherapy items.
- Code this data item (when appropriate) even if your software uses the traditional format for date entry.
- Leave this item blank for diagnoses between 2003 and 2009 if your facility did not collect *Date Chemotherapy Started* at that time.

Examples:

Description	Date (Leave unknown portions blank.)	Date of Chemo Flag
Full date known	*01/08/2015 or 2015/01/08	Blank
Month & year known	*01/_/_/2015 or 2015/01/_/_	Blank
Year only known	*_/_/_/2015 or 2015/_/_/_	Blank
Unknown if chemo given	*_/_/_/_ or _/_/_/_	10
No chemo given	*_/_/_/_ or _/_/_/_	11
Chemo given, date unknown	*_/_/_/_ or _/_/_/_	12
Chemo planned, not started yet	*_/_/_/_ or _/_/_/_	15

* For date entry, your software may use the traditional format (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format. The computer will store either in the interoperable format.

SYSTEMIC/SURGERY SEQUENCE

Item Length: 1
 Data Type: Numeric
 ACoS: Required
 State Registry: *Required

*Required for cases diagnosed 01/01/2006 and later.

Description

This is a required 1-character field in the RMCDs abstract screen to record a code that indicates the sequencing of systemic therapy and surgical procedures provided as part of the first course of treatment.

For the purpose of coding systemic treatment sequence with surgery, “surgery” is defined as any one or a combination of the following:

- Surgical Procedure of Primary Site (codes 10-90) or
- Scope of Regional Lymph Node Surgery (codes 1-7) or
- Surgery to other regional site(s), distant site(s), or distant lymph node(s) (codes 1-5).

Systemic therapy is defined as:

- Chemotherapy
- Hormone therapy
- Biological response therapy/immunotherapy
- Bone marrow transplant
- Stem cell harvests
- Surgical and/or radiation endocrine therapy

Codes

- 0 No systemic therapy and/or surgical procedures; unknown if surgery and/or systemic therapy given
- 2 Systemic therapy before surgery
- 3 Systemic therapy after surgery
- 4 Systemic therapy both before and after surgery
- 5 Intraoperative systemic therapy
- 6 Intraoperative systemic therapy with other therapy administered before or after surgery
- 7 Surgery both before and after systemic therapy
- 9 Sequence unknown, but both surgery and systemic therapy were given

Definitions

Code	Definition
0	No systemic therapy was given and/or no surgery defined above was performed. It is unknown whether both surgery and systemic treatment were provided.
2	Systemic therapy was given before any surgery defined above was performed. Note: Both treatments must be coded.
3	Systemic therapy was given after any surgery defined above was performed. Note: Both treatments must be coded.
4	At least two courses of systemic therapy were given before and at least two more after any surgery defined above was performed. Note: Both the surgery and the systemic treatments must be coded.
5	Intraoperative systemic therapy was given during any surgery defined above. Note: Both treatments must be coded.
6	Intraoperative systemic therapy was given during any surgery defined above with other systemic therapy administered before or after surgery. Note: Both treatments must be coded.
7	Systemic therapy was administered between two separate surgical procedures to the primary site; regional lymph nodes; surgery to other regional site(s), distant site(s), or distant lymph node(s).
9	The patient had systemic therapy and surgery and the sequence of the treatments is not stated in the patient record. Note: Both treatments must be coded.

Instructions

- a. Code *Systemic/Surgery Sequence* for patients diagnosed on or after January 1, 2006.
- b. Code the administration of systemic therapy in sequence with the first surgery performed.
- c. If the patient did not receive both systemic therapy and surgery during the first course of therapy, record code 0. Code 0 (no systemic therapy and or surgical procedures) includes the following types of cases:
 - (1) Patients who received neither systemic therapy nor surgery;
 - (2) Patients who received systemic therapy but no surgery;
 - (3) Patients who received surgery but were not treated with systemic therapy; or
 - (4) It is not known whether the patient received both surgery and systemic therapy.
- d. If the patient received both systemic therapy and any on or a combination of the following surgical procedures: *Surgical Procedure of Primary Site*, *Scope of Regional Lymph Node Surgery*, and *Surgical Procedure/Other Site*, then code this item 2-9, as appropriate.
- e. If multiple first course treatment episodes were given such that both codes 4 and 7 seem to apply, use the code that defines the first sequence that applies. For example: Use code 4 for chemotherapy then surgery then hormone therapy then surgery.

Codes with Examples:

- 0 Due to other medical conditions surgery was not performed. The patient refused other treatment.
- 0 A patient with lobular carcinoma in situ of the breast underwent an excisional biopsy. No chemotherapy was recommended.
- 0 A patient with small cell carcinoma of the lung was treated with VP-16 and carboplatin.
- 2 A patient with prostate cancer received hormone therapy prior to a radical prostatectomy.
- 3 A patient underwent a colon resection followed by a 5-FU based chemotherapy regimen.
- 3 A patient has a lymph node dissection, followed by chemotherapy, followed by primary site surgery.
- 4 A patient with breast cancer receives pre-operative chemotherapy followed by post-operative Tamoxifen.
- 5 A patient with an intracranial primary undergoes surgery at which time a glial wafer is implanted into the resected cavity.
- 6 A patient with metastatic colon cancer receives intraoperative chemotherapy to the liver followed by postoperative chemotherapy.
- 9 An unknown primary of the head and neck was treated with surgery and chemotherapy prior to admission, but the sequence is unknown. The patient enters for radiation therapy.

DATE SYSTEMIC THERAPY STARTED

Item Length: 8
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This is a required 8-character field for recording the date of initiation for systemic therapy that is part of the first course of treatment. Systemic therapy includes the administration of chemotherapy agents, hormonal agents, biological response modifiers, bone marrow transplants, stem cell harvest, and surgical and/or radiation endocrine therapy.

Codes

	<u>Month</u>	<u>Day</u>	<u>Year</u>
01	January	01	Use four-digit year (e.g., 2015) blank = Year unknown
02	February	02	
03	March	03	
04	April	...	
05	May	...	
06	June	25	
07	July	26	
08	August	...	
09	September	30	
10	October	31	
11	November	blank = Day unknown	
12	December		
blank	Month unknown		

Instructions

- Record the first or earliest date on which systemic therapy was administered. Systemic therapy includes *Chemotherapy, Hormone Therapy, Immunotherapy, and Hematologic Transplant and Endocrine Procedures*. Determine whether your software vendor uses the traditional format for date entry (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDs program uses the traditional format.
- Record the month, day, and year (MM/DD/CCYY) the systemic therapy was started. Fill in with leading zeros where needed. For example, record June 3, 2015 as 06/03/2015.
- If the exact date of the beginning of systemic therapy is not available, record an approximate date. If information is limited to a description, use the following:

DESCRIPTIVE TERM USED	DATE CODE
Spring	April
The middle of the year	July
Fall	October
Winter	Try to determine if this means the beginning of the year (January) or the end of the year (December). Code as indicated.

- Do not record the date of initiation of *Other Treatment* in this field, even if it is the only treatment administered.

Examples:

12152014 A patient with breast cancer begins her regimen of chemotherapy on December 15, 2014, and is subsequently given tamoxifen on January 20, 2015.

06022015	A patient with Stage IV prostate cancer has an orchiectomy on June 2, 2015. The patient is then started on a regime of hormonal agents on June 9, 2015.
09_ _2015	If the exact date of the beginning of treatment is not available, record an approximate date. For example, September 2015.
04_ _2015	The information is limited to the description "Spring" of 2015.
07_ _2015	The information is limited to the description "The middle of the year," 2015.
10_ _2015	The information is limited the description "Fall" of 2015.
12_ _2014 or 01_ _2015	The information is limited to the description "Winter." Try to determine if this means the beginning or the end of the year. Code January or December as indicated.

RX DATE SYSTEMIC FLAG

Item Length: 2
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This flag explains why there is no appropriate value in the corresponding date field, *Date Systemic Therapy Started* (NAACCR Item #3230). This data item was added to Volume II Version 12 (effective January 2010).

Rationale

Prior to version 12 (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields.

Codes

- 10 No information whatsoever can be inferred from this exceptional value. It is unknown whether systemic therapy was administered.
- 11 A valid date is not applicable in this context. No systemic therapy was administered.
- 12 A valid date is applicable but not known. Systemic therapy was administered but the date is unknown.
- 15 Information is not available at this time, but it is expected that it will be available later. Systemic therapy is planned as part of first course treatment, but had not yet started at the time of the last follow-up.

Blank A valid date is coded in the *Date Systemic Therapy Started* (NAACCR Item #3230).

Instructions

- Leave this item blank if *Date Systemic Therapy Started* has a full or partial date recorded.
- Use code 12 if the *Date Systemic Therapy Started* cannot be determined, but the patient did receive first course systemic therapy.
- Use code 10 if it is unknown whether any systemic therapy was administered.
- Use code 11 if no systemic therapy is planned or administered.
- Use code 15 if systemic therapy is planned, but not yet started.
- Code this data item (when appropriate) even if your software uses the traditional format for date entry.

Examples:

Description	Date (Leave unknown portions blank.)	Date of 1 st Crs Rx Flag
Full date known	*01/08/2015 or 2015/01/08	Blank
Month & year known	*01/_/_/2015 or 2015/01/_/_	Blank
Year only known	*_/_/_/2015 or 2015/_/_/_	Blank
Unknown if Rx given	*_/_/_/_/_ or _/_/_/_/_	10
Diagnosed at autopsy	*_/_/_/_/_ or _/_/_/_/_	11
Rx given, unknown date	*_/_/_/_/_ or _/_/_/_/_	12
RX planned, not yet started	*_/_/_/_/_ or _/_/_/_/_	15

* For date entry, your software may use the traditional format (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format. The computer will store either in the interoperable format.

HORMONE THERAPY
 (HORMONE/STEROID [ENDOCRINE] THERAPY)

 Item Length: 2
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This is a required 2-character field to record hormone or steroid (endocrine) therapy administered as part of the first course of treatment. If hormone therapy was not administered, this item records the reason it was not administered. Hormone therapy consists of a group of drugs that may affect the long-term control of a cancer's growth and includes hormones, antihormones, and steroids.

Record hormone therapy administered at your facility, as well as hormone therapy given in any other facilities, if known.

Codes

- 00 None; hormone therapy was not part of the planned first course of therapy; diagnosed at autopsy.
- 01 Hormone therapy administered as first course therapy.
- 82 Hormone therapy was not recommended/administered because it was contraindicated due to patient risk factors (e.g., comorbid conditions, advanced age, progression of tumor prior to administration, etc.).
- 85 Hormone therapy was not administered because the patient died prior to planned or recommended therapy.
- 86 Hormone therapy was not administered. It was recommended by the patient's physician, but was not administered as part of the first course of therapy. No reason was stated in the patient record.
- 87 Hormone therapy was not administered. It was recommended by the patient's physician, but this treatment was refused by the patient, a patient's family member, or the patient's guardian. The refusal was documented in the patient record.
- 88 Hormone therapy was recommended, but it is unknown if it was administered.
- 99 If is unknown whether a hormonal agent(s) was recommended or administered because it is not stated in the patient record. Death certificate only.

Definitions

- a. Hormones promote hormonal withdrawal or hormonal interface to alter the growth of cancer. Hormone therapy may effect a long-term control of the cancer growth. It is not usually used as a curative measure.

Hormone categories are:

- Androgens: fluoxymesterone (Halotestin, Androxy)
 - Anti-androgens: bicalutamide (Casodex), flutamide (Eulexin), and nilutamide (Nilandron)
 - Corticosteroids, Adrenocorticotrophic agents: prednisone and dexamethasone (Decadron)
 - Estrogen: diethylstilbestrol (DES)
 - Progestins: Provera and Megace
 - Estrogen antagonists, Anti-estrogens: tamoxifen (Nolvadex), fulvestrant (Faslodex), toremifene (Fareston)
 - Aromatase inhibitors, Antiaromatase: anastrozole (Arimidex), exemestane (Aromasin), letrozole (Femara)
 - Gonadotropin releasing hormones (GnRH) and Luteinizing-hormone-releasing hormones (LH-RH): leuprolide (Lupron) and goserelin (Zoladex)
 - Thyroid hormones: levothyroxine (Synthroid) and liothyronine (Cytomel)
- b. Refer to the *SEER*Rx Interactive Drug Database* (<http://seer.cancer.gov/>) to determine whether the drugs used are classified as hormone therapy.
 - c. Adrenocorticotrophic hormones (cancer-directed only) are coded for leukemias, lymphomas, multiple myelomas, breast, and prostate cancer.

Instructions

- a. Record code 01 if the patient received hormone therapy as part of the first course of treatment. Administration of hormones or antihormones (cancer-directed only) should be recorded for all primary and metastatic sites.
 - (1) Record prednisone as hormonal therapy when administered in combination with chemotherapy, such as MOPP (mechlorethamine, vincristine, procarbazine, prednisone) or COPP (cyclophosphamide, vincristine, procarbazine, prednisone).
 - (2) Code 01 for thyroid replacement therapy that inhibits TSH (thyroid-stimulating hormone). TSH is a product of the pituitary gland that can stimulate tumor growth.
 - (3) Do not code hormone drugs as hormone therapy when administered for reasons other than chemotherapeutic treatment. Examples:
 - Hormone drug used to alleviate symptoms (e.g., Solu-Medrol used to control vomiting; Decadron to reduce edema and relieve neurological symptoms from brain metastasis in a lung primary.) Do not code as hormone therapy.
 - Hormone replacement therapy used when tumor involvement or cancer-directed treatment has destroyed hormone-producing tissue. Do not code as hormone therapy.
 - (4) For facilities that collect *Palliative Care*: If hormone therapy was provided to prolong a patient's life by controlling symptoms, to alleviate pain, or to make the patient more comfortable, then also record the hormone therapy provided in the *Palliative Care* field. The State Registry does not collect the *Palliative Care* data item.
- b. Record code 00:
 - (1) If hormone therapy was not administered to the patient, and it is known that it is not usually administered for this type and stage of cancer;
 - (2) If the treatment plan offered multiple alternative treatment options, and the patient selected treatment that did not include hormone therapy; or
 - (3) If the option of, "no treatment," was accepted by the patient.
- c. If it is known that hormone therapy is usually administered for this type and stage of cancer, but was not administered to the patient, use code 82, 85, 86, or 87 to record the reason it was not administered.
- d. Use code 87 if the patient refused recommended hormone therapy, made a blanket refusal of all recommended treatment, or refused all treatment before any was recommended.
- e. Use code 88:
 - (1) If it is known that a physician recommended hormone therapy, but no further documentation is available yet to confirm its administration; or
 - (2) To indicate referral was made medical oncologist and the registry must follow to determine whether hormone therapy was given. If follow-up with the specific specialist or facility indicates the patient was never there, use code 00.
- f. Use code 99 if it is not known whether hormone therapy is usually administered for this type and stage of cancer, and there is no mention in the patient record whether it was recommended or administered.
- g. In the *Hormone Therapy* field, record 01 for hormone therapy. For RMCDS users, record the date the course of hormone therapy was started in the adjacent "Date" field.

Example: Tamoxifen was started on July 15, 2015. The treatment would be entered as follows:
Hormone Therapy code 01, Date: 07/15/2015.

Codes with Examples:

- 00 A patient has advanced lung cancer with multiple metastases to the brain. The physician orders Decadron to reduce the edema in the brain and relieve the neurological symptoms. Decadron is not coded as hormonal therapy.

- 00 A patient with breast cancer may be treated with aminoglutethimide (Cytadren, Elipten), which suppresses the production of glucocorticoids and mineralocorticoids. This patient must take glucocorticoid (hydrocortisone) and may also need a mineralocorticoid (Florinef) as a replacement therapy.
- 00 A patient with advanced disease is given prednisone to stimulate the appetite and improve nutritional status. Prednisone is not coded as hormone therapy.
- 01 A patient with metastatic prostate cancer is administered flutamide (an antiandrogen).
- 87 A patient with metastatic prostate cancer declines the administration of Megace (a progestin) and the refusal is noted in the patient record.

DATE OF HORMONE THERAPY FLAG

Item Length: 2

Data Type: Numeric

ACoS: Required

State Registry: Required

Description

This flag explains why there is no appropriate value in the corresponding date field, *Date Hormone Therapy Started* (NAACCR Item #1230). This data item was added to Volume II Version 12 (effective January 2010).

Rationale

Prior to version 12 (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields.

Codes

- 10 No information whatsoever can be inferred from this exceptional value. (It is unknown if any hormone therapy was administered.)
- 11 No valid date is applicable in this context. (No hormone therapy was administered.)
- 12 A valid date is applicable but not known. (Hormone therapy was administered but the date is unknown.)
- 15 Information is not available at this time, but it is expected that it will be available later (Hormone therapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow-up.)
- Blank A valid date value is provided in item *Date Hormone Therapy Started* (NAACCR Item #1230). The case was diagnosed between 2003 and 2009 and the *Date Hormone Therapy Started* was not recorded by the facility.

Instructions

- Leave this item blank if the *Date Hormone Therapy Started* has a full or partial date recorded.
- Use code 12 if the *Date Hormone Therapy Started* cannot be determined, but the patient did receive first course hormone therapy.
- Use code 10 if it is unknown whether any hormone therapy was administered.
- Use code 11 if no hormone therapy is planned or given.
- Use code 15 if hormone therapy is planned, but not yet started. Follow this patient for chemotherapy and update this item, *Date Hormone Therapy Started*, and the relevant hormone therapy items.
- Code this data item (when appropriate) even if your software uses the traditional format for date entry.
- Leave this item blank for diagnoses between 2003 and 2009 if your facility did not collect *Date Hormone Therapy Started* at that time.

Examples:

Description	Date (Leave unknown portions blank.)	Date of Hormone Rx Flag
Full date known	*01/08/2015 or 2015/01/08	Blank
Month & year known	*01/_/_/2015 or 2015/01/_/_	Blank
Year only known	*_/_/_/2015 or 2015/_/_/_	Blank
Unknown if hormone Rx given	*_/_/_/_ or _/_/_/_	10
No hormone Rx given	*_/_/_/_ or _/_/_/_	11
Hormone Rx given, date unknown	*_/_/_/_ or _/_/_/_	12
Hormone Rx planned, not started yet	*_/_/_/_ or _/_/_/_	15

* For date entry, your software may use the traditional format (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format. The computer will store either in the interoperable format.

IMMUNOTHERAPY
(BIOLOGICAL RESPONSE MODIFIER [BRM] THERAPY)

 Item Length: 2
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This is a required 2-character field to record immunotherapy or Biological Response Modifier (BRM) therapy administered as part of the first course of treatment. Record immunotherapy administered at your facility, as well as immunotherapy given in any other facilities, if known.

Codes

- 00 None; immunotherapy was not part of the planned first course of therapy; diagnosed at autopsy.
- 01 Immunotherapy administered as first course therapy.
- 82 Immunotherapy was not recommended/administered because it was contraindicated due to patient risk factors (e.g., comorbid conditions, advanced age, progression of tumor prior to administration, etc.).
- 85 Immunotherapy was not administered because the patient died prior to planned or recommended therapy.
- 86 Immunotherapy was not administered. It was recommended by the patient's physician, but was not administered as part of the first course of therapy. No reason was stated in the patient record.
- 87 Immunotherapy was not administered. It was recommended by the patient's physician, but this treatment was refused by the patient, a patient's family member, or the patient's guardian. The refusal was noted in the patient record.
- 88 Immunotherapy was recommended, but it is unknown if it was administered.
- 99 It is unknown whether an immunotherapeutic agent(s) was recommended or administered because it is not stated in the patient record. Death certificate only.

Definitions

- a. Immunotherapy (BRM) consists of biological or chemical agents that alter the immune system or change the host's response (defense mechanism) to the tumor cells.
- b. Examples of immunotherapy (BRM) agents are:
 - Aldara
 - Allogenic cells
 - BCG
 - C-Parvum
 - Interferon
 - Ontak
 - Interleukin (IL-2)
 - Levamisole
 - MVE-2
 - Thymosin
 - TNF (Tumor Necrosis Factor)
 - Vaccine therapy

Note: Monoclonal antibodies (Mab) are used in various ways as systemic therapy and can be categorized as chemotherapy, immunotherapy, or ancillary drugs. Use the *SEER* reference cited below to identify the treatment category in which each monoclonal antibody should be coded.

- c. Refer to the *SEER*Rx Interactive Drug Database* (<http://seer.cancer.gov/>) to determine whether the drugs used are classified as immunotherapy (BRM).

Instructions

- a. Record code 01 if immunotherapy (BRM) was administered and determine the date it was started.
- b. Use code 00:
 - If immunotherapy was not administered to the patient, and it is known that it is not usually administered for this type and stage of cancer;
 - If the treatment plan offered multiple alternative treatment options and the patient selected treatment that did not include immunotherapy; or
 - If the option of, "no treatment," was accepted by the patient.

- c. If it is known that immunotherapy is usually administered for this type and stage of cancer, but was not administered to the patient, use code 82, 85, 86, or 87 to record the reason it was not administered.
- d. Use code 87 if the patient refused recommended immunotherapy, made a blanket refusal of all recommended treatment, or refused all treatment before any was recommended.
- e. Use code 88:
 - (1) If it is known that a physician recommended immunotherapy, but no further documentation is available yet to confirm its administration; or
 - (2) To indicate referral was made medical oncologist and the registry must follow to determine whether immunotherapy was given. If follow-up with the specific specialist or facility indicates the patient was never there, use code 00.
- f. Use code 99 if it is not known whether immunotherapy is usually administered for this type and stage of cancer, and there is no mention in the patient record whether it was recommended or administered.
- g. In the *Immunotherapy* field, record code 01 for immunotherapy (BRM). For RMCDS users, record the date the course of immunotherapy was started in the adjacent "Date" field.

Example: Interferon was started on July 15, 2015. The treatment would be entered as follows:
Immunotherapy code 01, Date: 07/15/2015.

For facilities that collect *Palliative Care*: If immunotherapy was provided to prolong a patient's life by controlling symptoms, to alleviate pain, or to make the patient more comfortable, then also record the immunotherapy provided in the *Palliative Care* field. The State Registry does not collect the *Palliative Care* data item.

- h. Code the six drugs listed below as BRM, beginning with January 1, 2013 diagnoses. Continue to code cases diagnosed prior to 01/01/2013 as chemotherapy.

Alemtuzumab/Campath
Bevacizumab/Avastin
Rituximab/Rituxan
Trastuzumab/Herceptin
Pertuzumab/Perjeta
Cetuximab/Erbitux

DATE OF IMMUNOTHERAPY (BRM) FLAG

Item Length: 2

Data Type: Numeric

ACoS: Required

State Registry: Required

Description

This flag explains why there is no appropriate value in the corresponding date field, *Date Immunotherapy Started* (NAACCR Item #1240). This data item was added to Volume II Version 12 (effective January 2010).

Rationale

Prior to version 12 (through 2009 diagnosis), date fields included codes which provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields.

Codes

- 10 No information whatsoever can be inferred from this exceptional value. (It is unknown if immunotherapy was administered.)
- 11 No valid date is applicable in this context (for example, no immunotherapy was administered).
- 12 A valid date is applicable but not known. (Immunotherapy administered but the date is unknown.)
- 15 Information is not available at this time, but it is expected that it will be available later. (Immunotherapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow-up.)
- Blank A valid date is coded in the *Date Immunotherapy Started* item (NAACCR Item #1240). The case was diagnosed between 2003 and 2009 and the *Date Immunotherapy Started* was not recorded by the facility.

Instructions

- Leave this item blank if the *Date Immunotherapy Started* has a full or partial date recorded.
- Use code 12 if the *Date Immunotherapy Started* cannot be determined, but the patient did receive first course immunotherapy or a biologic response modifier.
- Use code 10 if it is unknown whether any immunotherapy or biologic response modifier was administered.
- Use code 11 if no immunotherapy or biologic response modifier is planned or given.
- Use code 15 if immunotherapy or a biologic response modifier is planned, but not yet started. Follow this patient for immunotherapy and update this item, *Date Immunotherapy Started*, and the relevant immunotherapy items.
- Code this data item (when appropriate) even if your software uses the traditional format for date entry.
- Leave this item blank for diagnoses between 2003 and 2009 if your facility did not collect *Date Immunotherapy Started* at that time.

Examples:

Description	Date (Leave unknown portions blank.)	Date of BRM Flag
Full date known	*01/08/2015 or 2015/01/08	Blank
Month & year known	*01/_/_/2015 or 2015/01/_/_	Blank
Year only known	*_/_/_/2015 or 2015/_/_/_	Blank
Unknown if BRM given	*_/_/_/_/_ or _/_/_/_/_	10
No BRM given	*_/_/_/_/_ or _/_/_/_/_	11
BRM given, date unknown	*_/_/_/_/_ or _/_/_/_/_	12
BRM planned, not started yet	*_/_/_/_/_ or _/_/_/_/_	15

* For date entry, your software may use the traditional format (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format. The computer will store either in the interoperable format.

**HEMATOLOGIC TRANSPLANT
AND ENDOCRINE PROCEDURE**

Item Length: 2
Data Type: Numeric
ACoS: Required
State Registry: Required

Description

This is a required 2-character field to record any systemic therapeutic *procedures* administered as part of the first course of treatment at this and all other facilities. These include bone marrow transplants, stem cell harvests, surgical and/or radiation endocrine therapy. If none of these *procedures* were administered, then use this field to record the reason they were not performed.

Rationale

This data item allows the evaluation of patterns of treatment that involve the alteration of the immune system or change the patient's response to tumor cells but does not involve the administration of anti-neoplastic agents. In addition, when evaluating the quality of care, it is useful to know the reason if these *procedures* were not performed.

Codes

- 00 No transplant procedure or endocrine therapy was administered as part of first course therapy; diagnosed at autopsy.
- 10 A bone marrow transplant procedure was administered, but the type was not specified.
- 11 Bone marrow transplant - autologous.
- 12 Bone marrow transplant - allogeneic.
- 20 Stem cell harvest and infusion; umbilical cord stem cell transplant with blood from one or multiple umbilical cords.
- 30 Endocrine surgery and/or endocrine radiation therapy.
- 40 Combination of endocrine surgery and/or radiation with a transplant procedure. (Combination of procedures coded as 30 and 10, 11, 12, or 20.)
- 82 Hematologic transplant and/or endocrine surgery/radiation was not recommended/administered because it was contraindicated due to patient risk factors (e.g., comorbid conditions, advanced age, progression of disease prior to administration, etc.).
- 85 Hematologic transplant and/or endocrine surgery/radiation was not administered because the patient died prior to planned or recommended therapy.
- 86 Hematologic transplant and/or endocrine surgery/radiation was not administered. It was recommended by the patient's physician, but was not administered as part of the first course of therapy. No reason was stated in the patient record.
- 87 Hematologic transplant and/or endocrine surgery/radiation was not administered. It was recommended by the patient's physician, but this treatment was refused by the patient, a patient's family member, or the patient's guardian. The refusal was noted in the patient record.
- 88 Hematologic transplant and/or endocrine surgery/radiation was recommended, but it is unknown if it was administered.
- 99 It is unknown whether hematologic transplant and/or endocrine surgery/radiation was recommended or administered because it is not stated in the patient record. Death certificate only.

Definitions

- a. **Bone marrow transplant (BMT):** A procedure used to restore stem cells that were destroyed by chemotherapy and/or radiation.

Autologous BMT: "Auto" means "self." Stem cells are removed from the patient before high-dose chemotherapy or radiation treatment is administered. After these treatments are done, the patient's own stem cells are reinfused to restore the destroyed cells.

Allogeneic BMT: "Allo" means "other." Stem cells are removed from another person, called a donor. Most times, the donor must have the same genetic makeup as the patient, so that their blood is a "match." A relative may be a good match or donors who are not related to the patient may be found through national bone marrow registries. Bone marrow transplanted from an identical twin (syngeneic BMT) is coded as an allogeneic BMT.

- b. Stem cell harvests involve the collection of immature blood cells from the patient and the reintroduction by transfusion of the harvested cells following chemotherapy or radiation therapy.
- c. Endocrine irradiation and/or endocrine surgery are procedures that suppress the naturally occurring hormonal activity of the patient and thus alter or affect the long-term control of the cancer's growth. These procedures must be bilateral to qualify as endocrine surgery or endocrine radiation. If only one gland is intact at the start of treatment, surgery and/or radiation to that remaining gland qualifies as endocrine surgery or endocrine radiation.

Instructions

- a. Select the code for the type of procedure the patient received and determine the date it was performed.
- (1) Use code 00:
- If a transplant or endocrine procedure was not administered to the patient and it is known that these procedures are not usually administered for this type and stage of cancer;
 - If the treatment plan offered multiple alternative treatment options and the patient selected treatment that did not include a transplant or endocrine procedure; or
 - If the option of, "no treatment," was accepted by the patient.
- (2) Use code 10 if the patient has "mixed chimera transplant" (mini-transplant or non-myeloablative transplant). These transplants are a mixture of the patient's cells and donor cells.
- (3) Use code 20 if the patient has a stem cell harvest followed by a rescue or reinfusion (stem cell transplant, including allogenic stem cell transplant) as first course therapy. If the patient does not have a rescue, code the stem cell harvest as 88, recommended, unknown if administered.
- (4) If it is known that a transplant or endocrine procedure is usually administered for this type and stage of cancer, but was not administered to the patient, use code 82, 85, 86, or 87 to record the reason it was not administered.
- (5) Use code 87 if the patient refused a recommended transplant or endocrine procedure, or made a blanket refusal of all recommended treatment, or refused all treatment before any was recommended.
- (6) Use code 88:
- If it is known that a physician recommended transplant or endocrine procedure, but no further documentation is available yet to confirm its administration;
 - If a bone marrow or stem cell harvest was undertaken, but was not followed by a rescue or reinfusion as part of first course treatment; or
 - To indicate referral was made to a specialist for hematologic transplant or endocrine procedures and the registry must follow the case. If follow-up with the specific specialist or facility indicates the patient was never there, use code 00.
- (7) Use code 99 if it is not known whether a transplant or endocrine procedure is usually administered for this type and stage of cancer and there is no mention in the patient record whether it was recommended or administered.
- b. In the *Hematologic Transplant and Endocrine Procedure* field, enter the code from the list above for the procedure that the patient received. For RMCDS users, record the date the procedure was performed in the adjacent "Date" field.

For facilities that collect *Palliative Care*: If the hematologic transplant or endocrine procedure coded in this item was provided to prolong a patient's life by controlling symptoms, to alleviate pain, or to make the patient more comfortable, then also record the procedure provided in the *Palliative Care* field. The State Registry does not collect the *Palliative Care* data item.

OTHER TREATMENT

Item Length: 1
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This is a required 1-character field to record cancer-directed treatment that cannot be defined as surgery, radiation, or systemic therapy according to the defined data items in this manual. Record the therapy delivered at your facility, as well as other therapy given in any other facilities, if known.

Codes and Definitions

Codes	Label	Definition
0	None	All cancer treatment was coded in other treatment fields (surgery, radiation, systemic therapy). Patient received no cancer treatment. Diagnosed at autopsy.
1	Other	Cancer treatment that cannot be appropriately assigned to specified treatment data items (surgery, radiation, systemic therapy).
2	Other–Experimental	This code is not defined. It may be used to record participation in institution-based clinical trials.
3	Other–Double Blind	A patient is involved in a double-blind clinical trial. Code the treatment actually administered when the double-blind trial code is broken.
6	Other–Unproven	Cancer treatments administered by nonmedical personnel.
7	Refusal	Other treatment was not administered. It was recommended by the patient's physician, but this treatment (which would have been coded 1, 2, or 3) was refused by the patient, a patient's family member, or the patient's guardian. The refusal was noted in the patient record.
8	Recommended; unknown if administered	Other treatment was recommended, but it is unknown whether it was administered.
9	Unknown	It is unknown whether other treatment was recommended or administered, and there is no information in the medical record to confirm the recommendation or administration of other treatment. Death certificate only.

Instructions

- a. Select the code for other treatment received by the patient as part of the first course of treatment.
- b. In the *Other Treatment* field, enter the code from the list above for the "other" therapy that the patient received. For RMCDS users, record the date the course of other therapy was started in the adjacent "Date" field.
 - (1) Use code 0 for any of the following:
 - There is no information in the patient's medical record about other therapy and it is known that other therapy is not usually performed for this type and/or stage of cancer or there is no reason to suspect that the patient would have had other therapy.
 - The treatment plan offered multiple options and the patient selected treatment that did not include other therapy.
 - The patient elects to pursue no treatment following the discussion of other therapy. (Discussion does not equal a recommendation.)
 - The patient is diagnosed at autopsy.

(2) Use code 1 for any of the following:

- Embolization using alcohol as an embolizing agent.
- Embolization to a site other than the liver where the embolizing agent is unknown.
- PUVA (psoralen and long-wave ultraviolet radiation).

Note: Do not code presurgical embolization performed to shrink the tumor and make resection of the primary tumor easier. Examples where presurgical embolizations may be used include meningiomas, hemangioblastomas, paragangliomas, and renal cell metastases in the brain.

(3) Use code 1 for supportive care (e.g., phlebotomy, transfusion, or aspirin) used in the treatment of only certain hematopoietic diseases. Consult the most recent version of the *Hematopoietic and Lymphoid Neoplasm Case Reportability and Coding Manual* for instructions for coding care of specific hematopoietic neoplasms in this item.

(4) Use code 6 for the following:

- Unconventional methods whether they are the only therapy or are given in combination with conventional therapy (complementary medicine).
- Alternative therapy **only** if the patient receives no other type of treatment.

c. Do not code ancillary drugs (defined in the chemotherapy section of this manual) in this field. There is no coding scheme for ancillary drugs.

Examples of ancillary drugs:

Allopurinol
G-CSF (growth stimulating factors)
Epogen
Leucovorin
Neupogen

This a partial list. Refer to the *SEER*Rx Interactive Drug Database* (<http://seer.cancer.gov/>) if in doubt as to which drugs are ancillary drugs and not coded.

d. Do not code supportive care, observation, or any treatment that does not meet the usual definition in which treatment “modifies, controls, removes, or destroys proliferating cancer tissue.”

Exception: For specific hematopoietic diseases as instructed in the *Hematopoietic and Lymphoid Neoplasm Case Reportability and Coding Manual*.

Definitions

- a. Complementary and Alternative Medicine (CAM): any medical system, practice, or product that is not thought of as standard medicine (conventional medicine). CAM treatments may include dietary supplements, megadose vitamins, herbal preparations, acupuncture, massage therapy, magnet therapy, spiritual healing, and meditation. Complementary medicine is used along with standard medicine. Alternative medicine is used in place of standard treatment.
- b. Phlebotomy may be called blood removal, bloodletting, or venesection.
- c. Transfusions may include whole blood, RBCs, platelets, plateletpheresis, fresh frozen plasma (FFP), plasmapheresis, and cryoprecipitate.

DATE OF OTHER TREATMENT FLAG

Item Length: 2
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This flag explains why there is no appropriate value in the corresponding date field, *Date Other Treatment Started* (NAACCR Item #1250). This data item was added to Volume II Version 12 (effective January 2010).

Rationale

Prior to version 12 (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields.

Codes

- 10 No information whatsoever can be inferred from this exceptional value. (It is unknown if other therapy was administered.)
- 11 No valid date is applicable in this context (for example, no other treatment was administered).
- 12 A valid date is applicable but not known. (Other therapy administered but the date is unknown.)
- 15 Information is not available at this time, but it is expected that it will be available later. (Other therapy is planned as part of the first course of therapy, but had not been started at the time of the most recent follow-up.)
- Blank A valid date value is provided in item *Date Other Treatment Started* (NAACCR Item #1250). The case was diagnosed between 2003 and 2009 and the *Date Other Treatment Started* was not recorded by the facility.

Instructions

- Leave this item blank if the *Date Other Treatment Started* (NAACCR Item #1250) has a full or partial date recorded.
- Use code 12 if the *Date Other Treatment Started* cannot be determined, but the patient did receive first course other treatment.
- Use code 10 if it is unknown whether any other treatment was administered. (The *Other Treatment* item is coded 9.)
- Use code 11 if no other treatment is planned or given. (The *Other Treatment* item is coded 0, 7, or 8.)
- Code this data item (when appropriate) even if your software uses the traditional format for date entry.

Examples:

Description	Date (Leave unknown portions blank.)	Date of Other Rx Flag
Full date known	*01/08/2015 or 2015/01/08	Blank
Month & year known	*01/_/_/2015 or 2015/01/_/_	Blank
Year only known	*_/_/_/2015 or 2015/_/_/_	Blank
Unknown if other Rx given	*_/_/_/_ or _/_/_/_	10
No other Rx given	*_/_/_/_ or _/_/_/_	11
Other Rx given, date unknown	*_/_/_/_ or _/_/_/_	12

* For date entry, your software may use the traditional format (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format. The computer will store either in the interoperable format.

DESCRIPTION OF TREATMENT

Data Type: Text
ACoS: N/A
State Registry: Required

Description

This is required text for recording narrative descriptions of all treatment given for the tumor being reported, whether treatment is to the primary or metastatic site. In the paper abstract, the *Description of Treatment* field is a single field for recording all types of treatment. The RMCDs abstract screen provides a separate text field for each treatment modality. Facilities using other types of registry software should follow their vendor's instructions for recording treatment text.

Rationale

Text is needed to justify the codes selected for the data items and to record information that is not coded at all. The text is used for quality control and special studies.

InstructionsSurgical Procedures

- a. Record information describing all surgical procedures performed as part of treatment.
- b. Include, as applicable: Date of each procedure; facility where each procedure was performed; type(s) of surgical procedure(s), including excisional biopsies and surgery to other and distant sites; lymph nodes removed; regional tissues removed; metastatic sites; and positive and negative findings.

Radiation Beam

- a. Record information regarding treatment of the tumor with beam radiation.
- b. Include, as applicable: Date radiation treatment began; facility where treatment was given; type(s) of beam radiation (e.g., orthovoltage, cobalt 60, MV x-rays, electrons, mixed modalities); and other treatment information (e.g., patient discontinued after five treatments).

Radiation Other

- a. Record information regarding treatment of the tumor with radiation other than beam radiation. This includes brachytherapy and systemic radiation therapy.
- b. Include, as applicable: Date treatment began; facility where treatment was given; type(s) of non-beam radiation (e.g., high dose rate brachytherapy, seed implant, radioisotopes [I-131]); and other treatment information.

Chemotherapy

- a. Record information regarding chemotherapy treatment of the tumor.
- b. Include, as applicable: Date chemotherapy began; facility where chemotherapy was given; type of chemotherapy (e.g., name of agent(s) or protocol); and other treatment information (e.g., treatment cycle incomplete).

Hormone

- a. Record information about hormonal cancer-directed treatment.
- b. Include, as applicable: Date treatment began; facility where treatment was given; type of hormone or antihormone agent(s) (e.g., Tamoxifen); type of endocrine surgery or radiation (e.g., orchiectomy); and other treatment information (e.g., treatment cycle incomplete).

Immunotherapy/BRM

- a. Record information regarding the treatment of the tumor with biological response modifiers or immunotherapy.
- b. Include, as applicable: Date treatment began; facility where treatment was given; type of BRM agent (e.g., Interferon, BCG); BRM procedures (e.g., bone marrow transplant, stem cell transplant); and other treatment information (e.g., treatment cycle incomplete).

Other Treatment

- a. Record information treatment that cannot be defined as one of the other treatment modalities. This includes experimental and blinded clinical trials.

- b. Include, as applicable: Date treatment began; facility where treatment was given; type of treatment (e.g., blinded clinical trial, hyperthermia); and other treatment information (e.g., treatment cycle incomplete).

DATE OF LAST CONTACT OR DEATH

Item Length: 8
 Data Type: Numeric
 ACoS: Required
 State Registry: Required

Description

This is a required 8-character field to record the date of last contact (DLC). If the patient is dead, this field records the date of death. Determine whether your software vendor uses the traditional format for date entry (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format.

Definition

This date may be the discharge date, date of death, date of a patient's visit to a doctor's office or clinic, or the date the patient was last contacted, whichever is the most recent. This date must be the latest date in the record. For example, a treatment date cannot be later than the *Date of Last Contact*.

Instructions

- a. If no information is known after the patient is discharged from your hospital, record the date of discharge or the date of the patient's last outpatient visit. When abstracting a case with more than one admission or clinic visit, make sure the date of last contact is the last clinic visit date or the last discharge date, or whatever the latest date is.
- b. If you are aware of a more recent date the patient was last alive after discharge (such as through correspondence or telephone contact), record the latest date of contact known. The date may be the date the patient was contacted by telephone or responded to a letter. Record the date of the actual patient contact. Do not use the date information was received in the mail, or the date information was requested from a patient, physician, or clinic. Do not record the date follow-up information was recorded on the abstract or follow-up card, or the date the case was entered into the computer.
Note: Failure to find a patient on a list of deceased individuals does not constitute evidence that the patient is alive. Neither *Vital Status* nor *Date of Last Contact or Death* should be changed.
- c. If a patient has multiple primaries, all records should have the same date of last contact. If the State Cancer Registry receives information from more than one facility for the same patient, this field will be updated in each of the patient's records. The latest date of last contact or death will be recorded for all of the patient's tumors.
- d. Estimate the date of last contact when the exact date is not available. An approximate date is better than using unknowns.

If the specific day of the month is unknown, leave the the day section blank

- e. If information is limited to a description, use the following:

DESCRIPTIVE TERM USED	DATE CODE
Spring	April
The middle of the year	July
Fall	October
Winter	Try to determine if this means the beginning of the year (January) or the end of the year (December). Code as indicated.

The *Vital Status* and *Cancer Status* fields below relate to this date.

DATE OF LAST CONTACT FLAG

Item Length: 2

Data Type: Numeric

ACoS: Required

State Registry: Required

Description

This flag explains why there is no appropriate value in the corresponding date field, *Date of Last Contact* (NAACCR Item #1750). This data item was added to Volume II Version 12 (effective January 2010).

Rationale

Prior to version 12 (through 2009 diagnosis), date fields included codes that provided information other than dates. As part of an initiative to standardize date fields, new fields were introduced to accommodate non-date information that had previously been transmitted in date fields.

Codes

12 A valid date is applicable but not known. (The date of last contact or death is unknown).

Blank A valid date is coded in the *Date of Last Contact or Death* item.

Instructions

- Leave this item blank if *Date of Last Contact or Death* has a full or partial date recorded.
- Use code 12 if the *Date of Last Contact or Death* cannot be determined.
- Code this data item (when appropriate) even if your software uses the traditional format for date entry.

Examples:

Description	Date (Leave unknown portions blank.)	Date of Last Contact Flag
Full date known	*01/08/2015 or 2015/01/08	Blank
Month & year known	*01/_ _/2015 or 2015/01/_ _	Blank
Year only known	*_ _/_ _/2015 or 2015/_ _/_ _	Blank
Unknown date	*_ _/_ _/_ _ _ _ or _ _ _ _/_ _/_ _	12

* For date entry, your software may use the traditional format (MMDDCCYY) or the interoperable format (CCYYMMDD). The RMCDS program uses the traditional format. The computer will store either in the interoperable format.

VITAL STATUS
(STATUS OF PATIENT)Item Length: 1
Data Type: Numeric
ACoS: Required
State Registry: Required**Description**

This is a required 1-character field to record a code that indicates patient's vital status (dead or alive) as of the *Date of Last Contact (or Death)*. Use the most accurate information available.

Codes

- 0 Dead
- 1 Alive

Instructions

- a. If no follow-up information is ever received, code the patient's vital status on the date of his/her last discharge from the hospital.
- b. If a patient has multiple primaries, all records should have the same patient vital status. Do not change a patient's vital status at discharge unless new follow-up information is available.
- c. There is no code for "unknown," since you must know at least whether the patient was alive or dead at the time he or she last left your facility.

Note: Failure to find a patient on a list of deceased individuals does not constitute evidence that the patient is alive. Neither *Vital Status* nor *Date of Last Contact or Death* should be changed.

CANCER STATUS
(STATUS OF TUMOR)Item Length: 1
Data Type: Numeric
ACoS: Required
State Registry: Required**Description**

This is a required 1-character field to record a code that indicates the presence or absence of clinical evidence of the patient's malignant or non-malignant tumor as of the *Date of Last Contact (or Death)*. Tumor status changes if the patient has a recurrence or relapse.

Codes

- 1 No evidence of this tumor
- 2 Evidence of this tumor
- 9 Unknown, indeterminate whether this tumor is present, not stated in the patient record

Instructions

- a. Code the best available information concerning the tumor status of the patient as of the date of last contact or death.
- b. Code tumor status independently for each primary tumor. If a patient has multiple primaries, each record could have a different tumor status. If the patient has evidence of the other primary tumor, but does not have evidence of this tumor, code 1, no evidence of this tumor.
- c. Code patients who have hematopoietic disease (e.g., leukemia) that is in remission as no evidence of this tumor (code 1).
- d. Official death certificates do not always record the presence of tumors. If the registry abstract indicates that the patient had a malignant or non-malignant tumor immediately before death, code evidence of this tumor (code 2). Consult the registry physician advisor when questions arise. Decisions on tumor status coding can be based on information such as:
 - How much time elapsed between the last follow-up and patient's death?
 - Was the last follow-up and tumor status information from a medical source (physician, hospital admission)?
 - Are autopsy findings available to the registry?

Example: A prostate cancer patient has a two-year history of metastatic disease. The patient had a bone scan at your facility in April 2015. The urologist's diagnosis was progressive bony metastases and the bone scan confirmed extensive bone destruction. The registrar finds an obituary documenting the patient's death in a nursing home in June 2015. Record the tumor status as "evidence of this tumor" (code 2).

FOLLOW-UP SOURCE

Item Length: 1
 Data Type: Numeric
 ACoS: Required
 State Registry: Required if available*

*Required if available for cases diagnosed 01/01/2008 and later.

Description

This item records the source from which the latest follow-up information was obtained.

Rationale

This data item is used by registries to identify the most recent follow-up source.

Codes

Code	Label	Definition
0	Reported hospitalization	Hospital at another institution/hospital or first admission to the reporting facility.
1	Readmission	Hospitalization or outpatient visit at the reporting facility.
2	Physician	Information from a physician.
3	Patient	Direct contact with the patient.
4	Department of Motor Vehicles	The Department of Motor Vehicles confirmed the patient has a current license.
5	Medicare/Medicaid file	The Medicare or Medicaid office confirmed the patient is alive.
7	Death certificate	Information from the death certificate only.
8	Other	Friends, relatives, employers, other registries, or any sources not covered by other codes.
9	Unknown/ not stated in patient record.	The follow-up source is unknown or not stated in the patient record.

CAUSE OF DEATH

Item Length: 4
 Data Type: Alphanumeric
 Left Justified
 ACoS: N/A
 State Registry: Required

Description

This is a required 4-character field in the RMCDs abstract screen to record the *ICD-10 (International Statistical Classification of Diseases and Related Health Problems, Tenth Revision)* code for the underlying cause of death. Record the cause of death listed on the death certificate. Central (state) registries are the primary users of this data item. Use the underlying cause of death (*ICD-10* code), even if believed to be in error. All underlying causes of death should be left-justified. The decimal point is assumed to be between the third and fourth digit, but should not be entered.

Special Codes

0000 Patient alive at last follow-up
 7777 State death certificate or listing not available
 7797 State death certificate or listing available, but underlying cause of death not coded; or the coded underlying cause of death is not available

Instructions

- a. For all cases not meeting one of the above code descriptions and where the patient has died and the cause of death is known, record the *ICD-10* underlying cause of death code.
- b. Use code 7777 when the patient has died, but the death certificate is not available. Hospitals would almost always record code 7777 for cause of death.
- c. Use code 7797 when the patient has died, but the coded underlying cause of death is not available.
- d. Some codes have an optional fifth digit. The fifth digit is not used in coding cause of death.
- e. The *ICD-9-CM* code for cause of death obtained from the medical record should not be used for the underlying cause of death code if no death certificate is available. Use only the *ICD-10* code from the death certificate. If hospitals record cause of death from the medical record for their own use, the State Registry will replace it with the death certificate code.
- f. *Examples:*

<u>Underlying Cause of Death</u>	<u>ICD-10</u>
Cancer of the thyroid	C73
Acute appendicitis with peritonitis	K35.0
Adenocarcinoma of stomach	C16.9

PLACE OF DEATH - STATE

Item Length: 2

ACoS: N/A

State Registry: Required if available

Description

This is a 2-character field for recording the state or province where the patient died. The State Registry requires the item if the information is available.

Codes

See the table provided for *State at Diagnosis* for the list of state codes.

Special Codes

XX Died in a country other than the U.S. (including its territories, commonwealths, or possessions) or Canada and the country is known (code the country in *Birthplace-Country*)

YY Died in a country other than the U.S. (including its territories, commonwealths, or possessions) or Canada and the country is unknown

US Died in the U.S. (including its territories, commonwealths, or possessions) and the state is unknown

CD Died in Canada and the province is unknown.

ZZ State where patient died is unknown

Note

This item was first defined for use in 2013. Cases diagnosed before 2013 should be converted automatically by the registry's software from the former *Place of Death*.

PLACE OF DEATH - COUNTRY

Item Length: 3

ACoS: N/A

State Registry: Required if available

Description

This is a 3-character field for recording the country where the patient died. The State Registry requires the item if the information is available.

Codes

For country codes, see one of the following:

- *The SEER Program Coding and Staging Manual*, Appendix B (<http://seer.cancer.gov/>);
- *NAACCR Standards for Cancer Registries Volume II: Data Standards and Data Dictionary*, Appendix B (<http://www.naaccr.org/>); or
- *FORDS* Appendix E (<http://www.facs.org/cancer/coc/fordsmanual.html>).

Examples

USA United States

CAN Canada

ZZX Non-US NOS

ZZU Place of death is unknown

Note

This item was first defined for use in 2013. Cases diagnosed before 2013 should be converted automatically by the registry's software from the former *Place of Death*.

REMARKS

Data Type: Text
ACoS: N/A
State Registry: Optional

Description

This is an optional text field in the paper and RMCDs abstracts for recording information not elsewhere provided for or for overflow from other text fields. Facilities using other types of registry software should follow their vendor's instructions for recording text.

Rationale

Text is needed to justify the codes selected for the data items and to record information that is not coded at all. The text is used for quality control and special studies.

Instructions

The following kinds of information may be recorded in this field:

- a. History of symptoms
- b. Clinical findings

Example 1: Mass noted in right (rt.) breast 2 months ago; mammogram prior to admission (PTA) suspicious. Physical exam (PE) revealed 2 cm. mass in the upper outer quadrant (UOQ) of the right breast. No axillary lymphadenopathy noted.

Example 2: Pleural effusion or ascites, weight loss, etc.

- c. Diagnostic and metastatic work-up (type of procedures, dates, and results)
 - (1) Record only work-up related to the malignancy and the spread of the disease.
 - (2) When recording test results, include the interpretation (positive, negative, elevated, within normal limits) with the value because the definition or parameters for "normal" values may differ from one facility to another.
- d. Overflow from other text fields if additional space is needed.

CENTRAL TUMOR REGISTRY NUMBER (FOR STATE USE ONLY)

Item Length: 6 + 2

Leave this item blank.

Data Type: Numeric

Description

This is an 8-character field (when combined with sequence number). The Central Tumor Registry (CTR) Number is an internal number that will be assigned and used by the State Cancer Registry only. In the RMCDS program, it appears in the abstract screen and on reports as CTR # (Central Tumor Registry Number). There is a unique CTR number for each person in the central registry. If a person has more than one primary tumor, the sequence number will distinguish one tumor from the next.

In hospitals using the RMCDS program, the CTR number that appears in the hospital's abstract screen is the same as the hospital registry's accession number for the patient. The first four digits are the accession year (YYYY). The next five digits are the accession number (#####). The last two digits are the sequence number (SQ), so that the number looks like this: YYYY#####SQ.

When the hospital submits cases on diskette to the State Registry, the CTR number is automatically changed to the unique CTR number used by the central registry. Hospital accession numbers are also maintained in the central registry.

DATE CASE REPORT RECEIVED (STAMP DATE) (FOR STATE USE ONLY)Item Length: 8
Data Type: Numeric

Description

This is an 8-character field for the date the electronic or paper abstract (or source record) is received by the State Cancer Registry for the respective tumor. If multiple reports are received from two or more sources, the applicable date for each reporting source is maintained in the State record for the tumor. The item label is *Stamp Date* in the State RMCDS screens. RMCDS screens for hospitals do not include this item.

Rationale

This item is used to assess and monitor the timeliness of reporting. Timeliness of abstracting (and reporting) is a concern for all standard-setting organizations and consequently, timeliness standards have been established. This item can be used with the *Date of First Contact* to measure timeliness of reporting by individual facilities to the State Registry.

CHAPTER 6: CORRECTIONS AND FOLLOW-UP

OVERVIEW

This chapter describes how corrections, deletions, and follow-up information on previously submitted cases are reported to the State Cancer Registry. Part I explains the purpose for corrections and follow-up; who submits reports; and when, how, and where reports are submitted. Part II describes various methods to accomplish follow-up. Part III details how to complete the Correction and Follow-up Form. Part IV explains how to complete the Correction form for Multiple Patients. Forms are available upon request from the State Cancer Registry.

PART I: GENERAL INSTRUCTIONS

A. Purpose

1. Corrections

The latest or most complete information and conclusions about a case should be reported. Over time, documentation may be added to a patient's medical record that was not available when an abstract was originally completed. Such information may, in the interest of accuracy, require modification of the originally reported data. For example, early diagnostic information may support a diagnosis of metastatic lung cancer. Later it may be learned that the original site of disease was breast cancer. In another case, more extensive work-up may reveal that disease originally thought to be malignant is benign and the case should be deleted from the State Cancer Registry database. For such cases it is important to correct the primary site, histology, and/or extent of disease as information becomes more complete. There is no time limit for making revisions that give better information about the **original** diagnosis or stage.

Note: This does not mean that as the disease progresses, the stage should be changed according to the latest stage of disease. Staging should reflect only information available through completion of surgery(ies) in the first course of treatment or within four months of diagnosis in the absence of disease progression, whichever is longer.

2. Follow-Up

Systematic, annual follow-up of cancer patients is an important function of the cancer registry. Annual follow-up achieves two important objectives:

- To encourage continued medical surveillance of patients for early detection and treatment of recurrences and subsequent cancer;
- To obtain information for patient care studies and survival.

Additional benefits of hospital-based follow-up efforts include provision of follow-up service to physicians and enhanced public relations resulting from the hospital's continued concern for patient welfare.

From an epidemiologic perspective, a statewide follow-up effort permits tracking of patients in the event that case control studies are required or patient contact is necessary to assess public health risks.

The American College of Surgeons, Commission on Cancer requires a specified successful follow-up rate for all cancer programs seeking approval.

B. Who Submits Correction and Follow-Up Reports

Any hospital having correction or follow-up information about a patient who was previously reported to the State Cancer Registry may submit information on that patient to the State Cancer Registry.

C. When to Submit Corrections and Follow-Up Information

1. Corrections

Corrections or modifications to previously submitted data should be completed and submitted to the State Cancer Registry as soon as possible after the need for correction is discovered.

2. Follow-Up

Follow-up should be performed at least annually for each patient, usually on the anniversary of the date of last contact.

Follow-up reports may be submitted to the State Registry at least quarterly, particularly for hospitals that treat a large number of cancer patients. Hospitals are encouraged to submit updated information more frequently in order to maintain a complete record of the patient's treatment and a current database for analytic purposes. This permits an orderly workflow at both the State Cancer Registry and the reporting hospital.

D. How to Report Corrections and Follow-Up Information

Corrections, deletions, and follow-up can be submitted in a number of different ways that are outlined below.

1. Copies of the Original Paper Abstract

If your hospital reports by paper abstract, changes or follow-up may be submitted on a copy of the original paper abstract.

- a. Make a copy of the original form.
- b. In red, write "Correction," "Delete," or "Follow-Up" at the top of the form.
- c. In red, cross out the original data in the field to be corrected and write the corrected or follow-up information beside the old.

2. Correction and Follow-Up Form

Changes and/or follow-up may be submitted on a "Correction and Follow-Up Form," explained in Part III of this chapter.

- a. Complete all identifying information on the form to ensure the appropriate case is corrected, deleted, or updated.
- b. Complete section D. "Corrections" or section F. "Follow-Up Information," as applicable.
- c. Make a legible copy of the original form and mail the copy to the State Cancer Registry, keeping the original at your hospital.

3. Corrections for Multiple Patients

Corrections for multiple patients, such as those identified on a discrepancy report from the State Cancer Registry, may be submitted by one of the following two methods:

- a. Write the correct information next to the error message on the discrepancy report and return the corrected report to the State Registry; or
- b. Record the corrections on the "Correction Form for Multiple Patients" explained in Part IV of this chapter.

4. Corrections by Telephone

Changes may be submitted by calling the State Cancer Registry at (317) 233-7158 with the correction or deletion. Changes of this type should be limited to five patients or less. Be prepared to identify the case by patient name, sequence number, and possibly date of birth or Social Security Number so that State Registry staff can change the correct record.

5. Computerized Registries

Follow-Up and Recurrence

When the State Registry processes disks received from hospitals with computerized registries, the most current follow-up information is automatically entered into the computer from the

diskettes. This includes date of last contact or death, patient's vital status, and cause of death, if applicable.

Other Changes (Corrections or Deletions)

All other information the hospital may have changed, updated, or corrected in any previously reported case is NOT automatically updated in the computer when the disks are processed.

These changes must be reported manually, in writing, or verbally.

The information will not be automatically updated in order to prevent writing over data which had been previously corrected or consolidated by State Registry staff. The system at the State Registry is designed so that when reports for a single case are received from multiple hospitals and there are significant differences in the information reported, they are not permitted to write over each other or merge until State Registry staff have analyzed and researched the differences and determined the best information and/or codes. The cases are then manually changed and consolidated. The work of the State Registry staff would be lost if new information from one of the hospitals could write over any changes made in the consolidation process. The consolidation process is described in more detail in Chapter 7 of this manual.

E. Where to Send Correction and Follow-Up Reports

Envelopes should be carefully sealed and labeled "CONFIDENTIAL MEDICAL INFORMATION." The envelope should be clearly addressed:

Indiana State Cancer Registry
Indiana State Department of Health
2 North Meridian Street, Section 6-B
Indianapolis, IN 46204-3010

All reports submitted must be legible. Illegible forms will be returned to the hospital.

The hospital should keep a record of reports submitted to the State. Cancer Registry personnel will keep track of reports received from each hospital.

F. Confidentiality

As correction and follow-up reports are being completed, care should be taken to ensure that the content of each is treated with the same level of security and confidentiality as the medical record. These reports are abbreviated medical records and should be treated as such. A full discussion of confidentiality is found in Chapter 8 of this manual.

PART II. FOLLOW-UP

Reporting annual follow-up data to the State Cancer Registry is optional. The State encourages hospitals to report follow-up information whenever possible in order to obtain a more complete record. Accurate and complete information about the current health of each patient may be difficult to obtain, but the importance of collecting this information is undeniable.

A. Frequency of Follow-Up

Follow-up efforts should be initiated on those patients for whom no information has been received within the last 12 months. Cases are considered delinquent if no contact has been made within 15 months after the date of last contact. A follow-up (tickler) file must be maintained, either manually or by computer, by which to identify patients due for follow-up. For hospitals that submit follow-up information, it is recommended that follow-up data collection be a monthly task of the hospital that first treats a case.

B. Cases to Include in Follow-Up

The American College of Surgeons, Commission on Cancer, requires annual follow-up on all analytic cases.

A hospital may elect to report recurrence or follow-up information on any case that has been reported to the State Cancer Registry. See Chapter 3 on Reporting for further information on the reportable cases.

Patient of advanced age and stage of disease should not be assumed deceased and withdrawn from follow-up after a prescribed time period. These patients may have exceptional responses and occasionally be long-term survivors.

C. Cases Not to Include in Follow-Up

- Carcinoma in situ of the cervix
- Non-analytic cases (cases neither diagnosed nor receiving any part of the first course of therapy at the reporting hospital)
- Patients residing in foreign countries
- Cases which were not required to be reported to the State Cancer Registry (see Chapter 3, Section D of this manual.)

D. Data Fields to Include in Follow-Up

The State Cancer Registry needs minimal follow-up data on patients in its database in order to calculate survival time from date of cancer diagnosis to date of death. This data includes:

- Date of last contact or death
- Patient's vital status (alive or dead)
- Cancer status (with or without disease)

A full explanation of these items is found in Chapter 5 of this manual.

There are additional data items relating to recurrences and follow-up that hospitals may want to collect for their registries: date and type of first recurrence, distant site(s) of first recurrence, and subsequent treatment for persistent or recurrent disease. Since the State Registry does not collect these items, they will not be explained here. Please refer to the *Facility Oncology Registry Data Standards (FORDS)* for coding rules and information.

E. Follow-Up Sources

1. Most follow-up information is obtained through review of hospital readmissions, outpatient visits, or letters to the patient's physician. Hospitals are encouraged to share follow-up information with other facilities that are following the same patient. Remember to re-contact physicians even though the first contact may not have been productive. After a period of time, the patient may have returned for a subsequent visit to the physician. When these methods are not effective in providing follow-up information, a variety of other sources may be employed.
2. Hospital policy, consistent with legal requirements for confidentiality, should be developed governing potential contact with relatives, friends, etc. If hospital policy permits, patients may be contacted by letter or telephone. All patient contact should be accomplished in a responsible and compassionate manner. Many hospitals' policies caution against mention of the patient's diagnosis.
3. Voter Registration roles can be a source of addresses for patients who have moved. Date of the last election in which the patient voted or date of registration to vote may be used as the date of last contact if no further information can be obtained.
4. Miscellaneous methods of locating patients include the Social Security Administration office, medical and life insurance companies, local utility companies, and credit bureaus. Most of these sources will provide only last known address.

5. More information on follow-up techniques can be obtained through the American College of Surgeons.

PART III: INSTRUCTIONS FOR COMPLETING CORRECTION AND FOLLOW-UP FORM

The number in front of the title of each item described below corresponds to the number on the Correction and Follow-Up Form for that data field. Shaded fields indicate items which are optionally reportable: completion is desirable, but not required. It is important to enter all information accurately and legibly.

A. Purpose of form

Check the box which describes your purpose for completing the Correction and Follow-Up Form.

1. Correction
Check the "Correction" box if you are modifying or correcting a record you have previously submitted to the State Cancer Registry.
2. Follow-Up
Check the "Follow-Up" box if you are reporting follow-up information.
3. Delete Case
Check the "Delete Case" box if you want the State Cancer Registry to delete a record previously submitted. This might be used if, after reporting a case to the State Cancer Registry, you obtained additional information and concluded the case was non-reportable. Record the reason the case should be deleted in the "Remarks" section of the form.

B. Patient Identification

The information in Items 4 through 6 should match the information previously submitted for the patient. It will be used to identify the record that requires the change or follow-up being reported.

4. Patient Name
Enter the patient's last name, first name, and middle initial according to instructions in Chapter 5.
5. Social Security Number
Enter the patient's Social Security Number according to instructions in Chapter 5.
6. Date of Birth
Enter the patient's birth date according to instructions in Chapter 5.
7. State CTR #, if known
This is a unique 10-digit number assigned to every patient in the State Registry. Additional information on the CTR number can be found in Chapter 5.

If you have a report from the State Registry that lists the Central Tumor Registry (CTR) number, enter it in Item 7. The CTR number appears in the first column of Discrepancy Reports from the State Registry. After the 10-digit CTR number, a dash follows, and then the 2-digit sequence number, which should be recorded in Item 10 on the Correction and Follow-Up Form.

Leave the item blank if the CTR number is unknown or unavailable.

C. Hospital and Tumor Identification

8. Hospital Identification Number
Enter the 3-digit hospital ID number according to instructions in Chapter 5,
9. Hospital Accession Number
Enter the 9-digit hospital Accession Number according to instructions in Chapter 5.
10. Sequence Number
Enter the 2-digit Sequence Number according to instructions in Chapter 5.

11. Original Primary Site
Enter the *ICD-O-3* primary site code number as originally submitted to the State Registry according to instructions in Chapter 5. If primary site is the item you want to correct or change, the corrected code will be reflected in Item 14 where corrections are described.

D. Corrections

12. Item Name
Enter the name of the item (field) you want to correct or change. For example, if you are changing the primary site code, enter "Primary Site."
13. Change From
Enter the information that was originally submitted for the field you are correcting. If you are changing the Summary Stage from "localized" to "in situ," for example, enter the code you originally submitted (1). Enter the code first, and the description if space allows. For example, enter 1 – localized.
14. Change To
Enter the new information for the field you are correcting. If you are changing the Summary Stage from "localized" to "in situ," for example, enter the code you want to change the Summary Stage to (0). Enter the code first, and the description if space allows. For example, enter 0 – in situ.

E. Remarks

The "Remarks" field is to be used to record any information that may be helpful to you or State Cancer Registry staff who will be entering the data. The type of information that might be recorded here includes an explanation of the correction if it is anything other than routine. If a case is being deleted, record the reason in this field.

F. Follow-Up Information

The "Follow-Up Information" fields allow for submission of up to three years of follow-up information. The hospital should keep the original abstract and send a copy to the State Registry. Additional years of follow-up can then be added to the original Correction and Follow-Up form, with a copy being sent to the State every year.

After each 12-month follow-up contact is made, complete the next follow-up information section.

15. Date of Last Contact
Enter the date of the most recent patient contact or the patient's date of death. Complete this section according to instructions in Chapter 5.
16. Vital Status (Patient Status)
Enter the patient's vital status (alive or dead) as of the last date of contact. Complete this section according to instructions in Chapter 5.
17. Cancer Status
Enter the patient's cancer status (with or without evidence of cancer) for this primary as of the last date of contact or death using the best available information. Complete this section according to instructions in Chapter 5.
18. Cause of Death
Enter the ICD-10 underlying cause of death code listed on the death certificate. Complete this section according to instructions in Chapter 5.

Special Codes

- 0000 Patient alive at last follow-up
- 7777 State death certificate or listing is not available
- 7797 State death certificate or listing is available, but the underlying cause of death is not coded or the coded underlying cause of death is not available

19. Submitted By

Enter the name or initials of the person completing the Correction and Follow-Up Form. The name or initials may be legible printed, written, or typed. The signature of the preparer is not required. This information is collected in case the State needs to contact the preparer for questions.

20. Date Completed

Enter the date the form was completed. The date may be legibly printed, written, or typed.

PART IV: INSTRUCTIONS FOR COMPLETING CORRECTION FORM FOR MULTIPLE PATIENTS

The “Correction Form for Multiple Patients” can be used to report corrections for up to four different patients. The form can be used to address questions identified on the State Registry’s discrepancy lists or to report any corrections on multiple patients.

A. Hospital Identification

1. Enter the name of your hospital. If there is more than one hospital with the same name (e.g., there are six St. Joseph hospitals in Indiana), add the city name or an abbreviation of the city.
2. Enter the 3-digit hospital identification number according to instructions in Chapter 5.

B. Corrections

1. Enter the patient’s last and first names in the space under the item title Name according to instructions in Chapter 5.
2. Enter the Central Tumor Registry (CTR) number, if known, as it appears in the first column of the Discrepancy Report. The first 10 digits are the CTR number, followed by a dash, and then the 2-digit Sequence Number (e.g., 0000123456-00). Additional information on the CTR and Sequence Numbers can be found in Chapter 5.
3. Enter your hospital’s Accession Number, according to instructions in Chapter 5. The first 4 digits are the year the patient was first accessioned, followed by a dash, and then the five digit Accession Number.
4. On lines 1-5, record an explanation of the change(s) being reported. The change(s) should be recorded as described for the “Correction and Follow-Up Form.” If the correction involves a change of codes, record both the old and the new codes.

C. Submitted By and Date

Enter the name or initials of the person completing the form on this line. The name or initials may be legibly printed, written, or typed. The signature of the preparer is not required. This information is collected in case State Registry staff need to contact the preparer for questions.

Enter the date the form was completed. The date may be legibly printed, written, or typed.

CHAPTER 7: QUALITY CONTROL

A. OVERVIEW

Definition

Quality control is the cancer registry function concerned with the assessment and improvement of data quality. The characteristics of quality include case completeness, data accuracy, data completeness, and timeliness.

Goals

- To detect and correct errors or omissions in existing data;
- To identify and effectively address opportunities for improvement in training, documentation, and/or systems in order to assure the quality of subsequent data collection.

Responsibility

A designated CTR (Certified Tumor Registrar) is responsible for the quality assurance program. Qualified, experienced CTRs conduct quality assurance activities.

Components of Quality Control

The State Registry quality control activities include the following:

- Analysis of observed/expected completeness rates
- Casefinding audits
- Reabstracting and re-coding audits
- Visual editing of data quality
- Computer editing of data quality
- Evaluation and consolidation of case-sharing and duplicates
- Procedure manual (documentation) maintenance
- Staff training and development
- Feedback and consultation from quality control activities to data collectors
- Resolution of discrepancies

B. ASSESSMENT/IMPROVEMENT OF DATA ACCURACY AND COMPLETENESS

1. Observed/Expected Completeness Rates

Case Volume

Case volume is monitored to assess and improve the completeness of data. The actual number of cases reported by each facility is compared to an estimated expected volume. The expected case volume for a year is based on an assessment of the number of cases reported in each of the preceding five years. An annual caseload can be estimated by the number of acute care medical and surgical beds at the facility. A hospital with 250 acute medical and surgical beds may typically see 250 new cancer cases per year. For small hospitals without radiation therapy centers, this figure is probably within 20% of the actual caseload for the first years of the registry. For hospitals offering radiation therapy, 50% is added to the total number of beds to determine annual caseload (e.g., a hospital with 100 beds would see 150 cancer cases per year). This formula is not reliable for major referral centers.

When fewer reports are received than expected for a given year, the reporting source is contacted to assess the reason. If the decline in number of cases is not the result of an explainable cause, such as a change in facility services or an abstracting backlog, the facility will be asked to review casefinding procedures. The Indiana State Cancer Registry personnel will be available for consultation and assistance in the review. A review would include an examination of the hospital's patient index; pathology reports; chemotherapy, radiation therapy, and outpatient logs; diagnostic or disease index; and print-outs of cancer-related diagnostic codes from the billing system.

Patterns

Indiana data is compared with national averages in order to assess and improve the completeness of data. Based on data from the *Surveillance, Epidemiology, and End Results (SEER)* Program of the National Cancer Institute, the proportion of cases from each of the common organ sites is compared to Indiana data and used to determine whether Indiana data are comparable to national data. Any discrepancies will be investigated.

2. Casefinding Audits

Casefinding audits are performed to assess and improve the completeness of reporting. The audit is a study to verify that a facility is reporting all applicable newly diagnosed cancer cases and to help the facility improve casefinding procedures if needed. The audit involves reviewing the facility's casefinding procedures and all sources for potential cases in the facility. The cases identified in this review are compared with cases reported and missed cases are documented. The reviewer calculates a completeness rate from these numbers and compares the rate with the completeness rate goal of 95%. Separate procedures are available describing in more detail how casefinding audits are conducted.

Each year the State Registry will select up to 20% of Indiana hospitals for casefinding audits. Sample specifications will be based on hospital annual caseload. Six months will be reviewed for hospitals with 0-100 annual cases. Three months will be reviewed for hospitals with 101-499 annual cases. One month will be reviewed for hospitals with 500 or more annual cases.

The State Registry will make consultative recommendations to the hospital registrar during the audit and will submit a written report of results and recommendations to the hospital and the State Registry within thirty days of the audit.

3. Reabstracting Audits

Reabstracting audits are performed to assess and improve data accuracy in terms of the data collectors' adherence to established principles of coding, abstracting, and staging. The audit involves reviewing the facility's source records for randomly selected cases and reabstracting selected data elements. The reabstracted items are compared with the facility's abstract and discrepancies are reviewed to identify needs for clarification, corrections, and education. Separate procedures are available describing in more detail how reabstracting audits are conducted.

Each year the State Registry will select up to twelve (10%) Indiana hospitals for reabstracting audits. The sample will be limited to a subset of cases diagnosed the previous year in the same half of the year as the time of the audit.

The State Registry staff will make consultative recommendations to the hospital registrar at the time of the audit and will submit a written report of results and recommendations to the hospital and the State Registry within thirty days of the audit.

4. Recoding Audits

Recoding audits may be performed to assess and improve the accuracy of data from new coders or from coders with educational needs identified by other quality control activities. The audits involve independently reassigning codes to abstracted text information or from copies of specific medical record documentation requested from the facility. The recoded items are compared with the original codes submitted and discrepancies are analyzed to identify needs for clarification, correction, and education.

The State Registry staff will submit a written report of results and recommendations to the hospital and the State Registry within thirty days of the audit.

5. Quality Control for Newly Submitted Cases

Each new submission of cases is loaded into a subsystem and subjected to both visual and computer edits before being transferred into the main database.

a. Visual Edits

Visual editing is performed to assess and improve data accuracy and completeness. Visual reviews are performed on cases received by State Cancer Registry staff to determine if data are complete, as well as, logical and internally consistent. Visual editing includes assessment of frequency reports of required items for blank items or invalid codes. It may involve analysis of listings with specified data items for all cases in a subsystem. It may involve one hundred per cent review of each abstract when the cases involve difficult diagnoses, are from new coders, or are from coders with educational needs identified by other quality control activities.

- Dates of birth, accession years, admission and discharge, initial diagnosis, and treatment are monitored for logical progression.
- Accession number, sequence number, and class of case are visually reviewed for logic.
- Agreement with laterality, site codes, histology, and sex are reviewed for logical consistency.
- Completeness is assessed by monitoring the number of “unknowns” or blanks in demographic and cancer data.

The reporting source is contacted as needed for correction, clarification, or completion of required data elements.

Transcription accuracy reflects the quality of procedures for transferring the data from the paper abstract to electronic medium. For cases entered from paper abstracts by State Cancer Registry personnel, each screen is carefully checked against the abstract for transcription errors prior to transfer to the main database.

b. Computer Edits

The State Cancer Registry develop and apply State-required computerized edit sets based on those from the NAACCR standard edits that are required by NPCR. These edits are provided to RMCDs hospitals; are available to facilities using other registry systems as part of the FTP submission procedure; and are made available to other vendors for incorporation into their registry systems.

The computerized edit sets assess the accuracy of all data received by applying standard computerized data edits. The computerized edits include the following: single field (to check for valid codes), multi-field (to check for consistency and logic between different fields), multi-record (to check for consistency between multiple sequences), and multi-database (to check for consistency between different hospitals seeing the same patient for the same tumor). Inconsistencies or discrepancies not detected during manual edit checks are identified by these edits.

The Rocky Mountain Cancer Data Systems' (RMCDs) edit program, though no longer updated by the vendor, are applied by the State Cancer Registry to identify potential Indiana ZIP code/county code inconsistencies that are not addressed by the NAACCR edits.

State Registry staff members analyze the edit reports and the abstracts and make corrections as indicated. When the staff member determines that the original information is correct, the edit is overridden and the reason is recorded in the “Comments” section.

When the analysis of computerized edits identifies variations from coding rules or incomplete information, the issues are reported to the responsible facility for correction, clarification, or completion of required data elements. Responses from the reporting source with justification and/or documentation supporting the original information are reviewed and changes made as indicated.

Quality control reviews are performed on reports before the data are released. In addition to the routine computerized edit checks, the subset of cases used in the report is checked for duplicate

cases to ensure patients are not counted more than once for each tumor. Patterns in the data are studied for inconsistencies. For example, a listing of pediatric cases containing colon, breast, or prostate cancers would identify a need for further review and action

6. Consolidation

The State Cancer Registry may receive duplicate reports for a single case from the same hospital, multiple hospitals, nonhospital facilities, death records, or another state registry. State Cancer Registry staff identify duplicate reports for a single case, resolve any discrepancies between reports, and consolidate the reports into a single record. Applicable multiple primary rules of the standard-setting organizations are applied. The purpose of consolidation procedures is to accurately determine cancer incidence in Indiana.

Identification of Duplicate Cases

The process of identifying duplicate reports (that have been submitted electronically) is initiated when recently received cases are transferred into the main database. See Attachment B, Procedure for Transferring Subsystems to the Main Database. The following mechanisms are used to identify potential duplicates: computer-automated merges, computer-generated identification of potential duplicates (error reports), manual search of the database by Social Security Number, and periodic execution of computerized multiple sequence consistency checking.

Computer-automated Merges

When critical identifying data elements are identical (e.g., patient name, Social Security Number, date of birth, sex, sequence number, primary site code), the oncoming case merges with the duplicate case in the main database. A list of all such merges is generated by the system and printed by staff for analysis described in the Analysis of Discrepancies section below.

Error and Possible Match Reports

When some, but not all, critical, identifying data elements are identical, the oncoming case is added as a new case into the main database. The system identifies most of these cases on either the Error Report or the Possible Match Report. The Error Report lists the cases that match all critical elements except the primary site and identifies each new case by the original case's Central Tumor Registry (CTR) number and a sequence in the 90's. The Possible Match Report lists the cases that match all critical elements except the sex, date of birth, or Social Security Number and identifies each new case by a newly assigned CTR number with the sequence as reported. The reports are printed by staff for analysis described in the Analysis of Discrepancies section below.

Note: The system does not identify possible matches that differ only in sequence, last name, or some variations in first name (e.g., Theodore versus Ted). Most of these are identified by Multiple Sequence Report analysis or the Social Security Number search procedure.

Social Security Number Search

After resolution of potential duplicates identified by the Error and Possible Match Reports, staff search the main database by the Social Security Numbers of all the oncoming cases, identifying additional potential duplicates for analysis described in the Analysis of Discrepancies section below.

Computerized Multiple Sequence Consistency Checking

The system's Multiple Sequence Consistency Checking identifies discrepancies between legitimate multiple primary cases, as well as potential duplicate cases that may not have been resolved in the procedures described above. This program is executed periodically and all discrepancies and potential duplicates are analyzed and resolved.

The process of identifying duplicate reports (that have been submitted in other than electronic format) is initiated by manually searching the main database and subsystems. Matched records for the same patient are compared, using applicable multiple primary rules to determine whether

the same primary is involved. If the reports are determined to be for the same primary, the analysis of discrepancies process described below is applied.

Analysis of Discrepancies

The abstracts for each of the potentially duplicate cases are opened and reviewed side by side so that all data items are compared and any discrepancies identified. For cases that were automatically merged, the original abstract for oncoming case is available as the “pristine” record, which can be opened and compared with the existing abstract.

Discrepancies between patient identifying data items may be resolved by searching the Social Security Death Index, if applicable. The reporting facilities may also be contacted for review of their source records for the correct information. If the analysis results in a determination that the cases are duplicate cases, the abstract that will be the consolidated record (the case with the earlier date-on-file) is corrected as applicable.

Discrepancies between cancer identifying data items and treatment data are reviewed with analysis of supporting text; assessment of the more extensive diagnostic work-up; consideration of class of case and dates seen; and appropriate application of coding rules. The more accurate and complete information is identified. The reporting facilities may also be contacted for review of their source records for clarification. If the analysis results in a determination that the cases are duplicate cases, the abstract that will be the consolidated record (the case with the earlier date-on-file) is corrected as applicable.

If the analysis results in a determination that the reports are duplicate cases that have not been automatically merged, they are manually merged. The oncoming case is merged to the case with the earlier date-on-file (the consolidated case) by deleting the oncoming case and entering the consolidated case CTR number and sequence in the box provided by the system. The consolidated records for all merged cases retain the facility-specific information (accession number, sequence, admission and discharge dates, medical record number, and class of case) for up to ten facilities. In addition, the original abstract submitted by each facility is retained as a “pristine” record.

If the analysis results in a determination that the cases are separate primaries (same patient), both reports are saved. (If these were computer-automated merges, the cases are “unmerged.”) Sequencing is updated, and any discrepancies between CTR number, Social Security Number, race, date of birth, place of birth, date last seen, vital status, and cause of death are resolved and corrected.

If the analysis results in a determination that the cases are separate primaries (different patients), both reports are saved.

After cases have been consolidated and pass all computerized edit checks, inter-record edit checks are applied periodically to identify and resolve inconsistencies between multiple primary records for one patient.

Facility Feedback

When the analysis of discrepancies identifies variations from coding rules, the issues are reported to the responsible facility for educational purposes.

7. Procedure Manual Maintenance

Current, written documentation of the State Registry’s definitions and methods are maintained in a policy and procedure manual, which is provided to all State Registry employees, contract consultants, and employees of reporting facilities. The manual documents the Registry’s data set definitions, codes, coding rule interpretations, and procedures. The standards of ACoS, NAACCR, and SEER are incorporated in the manual to the extent possible. Appropriate portions of the documentation will be provided to investigators and users of the data, as needed, to explain definitions and methods.

A Policy and Procedure Manual maintenance system is used for updating the documentation and keeping it current. The system involves monitoring release of new standards, rules, and definitions by ACoS, NAACCR, and SEER. Information from quality control activities are also be used in assessing the need to revise the procedure manual. When revised, dated pages are provided to all Registry staff, contract consultants, and reporting facilities. A library of revisions to the manual is kept at the State Cancer Registry. When revised, dated pages are provided to all Registry staff, contract consultants, and reporting facilities. The State Cancer Registry also maintains an “unusual case” reference file to aid in consistent data collection for difficult cancers.

8. Staff Training and Development

The State Cancer Registry provide training opportunities for employees of the State Registry and employees of reporting facilities. Training programs are developed in cooperation with the Indiana Cancer Registrars Association, Indiana Health Information Management Association, and Rocky Mountain Cancer Data Systems. Training will provide feedback to State Cancer Registry staff on the quality and effectiveness of services provided to reporting sources and the public.

Training programs are based on standard reference manuals and may address the following areas:

- Anatomy and physiology
- Medical terminology
- Site specific or other topics in oncology
- Reporting requirements
- Confidentiality and information security
- Casefinding
- Abstracting/coding/staging
- Follow-up
- Quality control
- Data processing (computer software)
- American College of Surgeons updates
- Hospital based cancer/tumor registry management
- Topics identified through other quality control activities

9. Feedback and Consultation

The results of quality control activities are reported to the applicable data collector to maintain data quality and eliminate recurring errors. Feedback may be written or by telephone call or one-on-one meetings. Feedback to the reporting facilities include the following:

- Information about changes or corrections made to abstracts at the State Registry
- Discrepancy lists resulting from computer or visual edits
- Results of casefinding and reabstracting audits with analysis of discrepancies and recommendations for improvement
- Information from analysis of observed/expected completeness rates.

The abstractor’s identification and date completed are required items in the RMCDS and are useful in identifying contacts for feedback. A complete list of the abstractors and/or contact person for each hospital is maintained at the State Cancer Registry. When feedback is indicated, the questions are directed to the person on this list.

C. ISSUES RELATED TO QUALITY

1. Timeliness of Data

Data collection must be conducted according to schedule. With the exception of early deaths, no case should be abstracted less than four months after admission. Abstracting too soon may result in the omission of important information from the database if complete information is unavailable at the time of abstracting. Cases are due at the State Registry no later than six months following a confirmed

diagnosis. Abstracting too late reduces the usefulness of the cancer registry data and reports. Cases submitted by each reporting source are monitored for timely receipt.

2. Personnel

Data collection in reporting facilities must be performed by knowledgeable and qualified individuals. The individuals serve as the primary abstractors and may be responsible for staff supervision, cancer case auditing, and report writing.

The Commission on Cancer, American College of Surgeons encourages registry staff to maintain Certified Tumor Registrar (CTR) credentials. The State Cancer Registry can provide hospitals with information on how to become a CTR, certified by the National Cancer Registrars Association (NCRA). Information on NCRA is found in Chapter 1 on References.

3. Use of References and Edits

Hospital staff should use available reference materials, many of which are free, rather than trying to memorize codes. Hospitals with computerized registries should ensure all records pass computer edits at the hospital level before sending data to the State. Standard edits, such as the EDITS project system developed by NAACCR, are available from standard setting organizations.

4. Maintenance of Logs and Records

Hospitals must keep documentation by date sent of reports submitted to the State Cancer Registry. Hospitals submitting paper abstracts must submit a legible copy of the original to the State Cancer Registry and keep the original for their records. State Cancer Registry personnel will keep a copy of discrepancy reports returned to the reporting source for completion, clarification, and correction.

5. Submitting Correction or Follow-Up

Chapter 6 details how to submit corrections and follow-up information. Two correction forms, which permit changes or deletions to be made to the Hospital Abstract Form, are explained. The Correction and Follow-Up Form also allows reporting of annual follow-up information.

6. Other Resources

Further information on quality control procedures may be obtained by requesting Volume I: Cancer Program Standards published by the Commission on Cancer, American College of Surgeons. The State Cancer Registry complies with the NAACCR Standards for Cancer Registries, Volume III: Standards for Completeness, Quality, Analysis, and Management of Data.

CHAPTER 8: CONFIDENTIALITY

A. OVERVIEW

1. Purpose

The State Cancer Registry is committed to preserving the confidentiality of information obtained for medical, educational, research, and statistical purposes. Confidentiality policies and procedures are maintained in all phases of the State Registry operations in order to:

- Protect the privacy of individual patients;
- Protect the privacy of the facilities reporting the cases;
- Abide by applicable confidentiality-protecting legislation or administrative rules.

2. Definition

Confidential data includes any information that identifies a specific patient, health care professional, or institution. The obligation to protect confidentiality extends indefinitely, even after the death of the patient.

Legal requirements for confidentiality are described in IC 16-38-2-(4-7) and 410 IAC 21-1-5, found in Appendix A.

B. RESPONSIBILITY

1. Reporting Source (Hospital or Other Health Care Provider)

The reporting source (hospital or other health care provider) is responsible for protecting the confidentiality of registry data collected and maintained on site and for submitting data to the State Registry in a way that protects confidentiality. The hospital should develop and implement confidentiality policies and procedures that address staff training, access control, record/abstract handling and storage, and release of registry data.

Paper abstracts must be handled and stored in a way that prevents unauthorized individuals from viewing confidential data. Information maintained in computerized systems must be protected by physical and electronic measures to control access to confidential data. Hospitals should mail copies of completed abstracts and/or patient record copies promptly to the State Registry, following the instructions in Chapter 3 of this manual for sealing and labeling the container and for keeping records of the cases submitted.

2. State Registry

The Program Director is ultimately responsible for information security at the State Registry. This responsibility includes ensuring that State Registry staff are accountable for compliance with the confidentiality policies and procedures of this chapter.

C. STATE REGISTRY POLICIES AND PROCEDURES

1. Staff Awareness

- a. All State Registry personnel and consultants receive specific training about the confidentiality of registry information and their responsibilities.
- b. All personnel handling or having access to cancer registry data are required to sign a Confidentiality Agreement. This includes staff from other departments, sections, or programs that are outside the State Cancer Registry but within the Indiana State Department of Health. The agreement documents that the employee has read and understands the State Cancer Registry policies for handling the data, agrees to abide by the policies, and is aware that failure to comply with any of these requirements constitutes a class A misdemeanor which

will result in disciplinary action in accordance with State policies. The agreement remains in effect after cessation of employment. A copy of the Confidentiality Agreement is available from the State Cancer Registry upon request.

2. Access Control

- a. A current, written list of persons with legitimate access to confidential cancer data is kept in the State Cancer Registry office. The nature and extent of their access to registry data are defined and are restricted to the information needed to do his/her job.
- b. All file cabinets where confidential data are stored in open areas are locked except when in use by authorized State Cancer Registry staff. The file room designated for the Cancer Registry Program is locked except when authorized State Cancer Registry staff are present.
- c. Employees are provided with the equipment for ensuring the physical security of confidential information. Confidential patient abstracts are stored in locked file cabinets. Backup tapes of the statewide database are stored in a locked, fireproof safe.
- d. Field staff maintain abstracts and/or printed reports in locked briefcases which are kept in a secure place when unattended. Access to confidential information is limited to authorized hospital personnel. Discussions regarding patient records occur only in settings where privacy is assured.
- e. The computer system provides access only to authorized individuals. The system has a three tiered level of security.
 - 1) The first level is the user Login Name. Each central registry staff logging into the network file server must enter his/her unique user login name.
 - 2) The second level is the confidential password, established by the user. The password is altered on a regular basis and when there is concern that security may be in jeopardy.
 - 3) The third level is the password to gain entry to the Rocky Mountain Cancer Data Systems (RMCDS) software. Network users who need the data for epidemiologic studies may be allowed limited access to only the non-confidential portions of the database. The RMCDS program is set up to allow "Read Only" for such individuals.

When a user is no longer employed at the State Registry, his/her password and access codes are deactivated immediately.
- f. Disclosure or sharing of codes, numbers, or names used to access the computer is strictly prohibited.
- g. When printed reports containing confidential information are no longer needed, they are disposed of by shredding.

3. Data Collection and Management

- a. Electronically Submitted Data

The State supports the programs described below that ensure the secure transmission of electronic cancer data by reporting facilities.

 - 1) The FTP Program

The preferred method for submitting data is the ISCR FTP Program that encrypts the facility's data file and sends it to the ISCR through the Internet using the File Transfer Protocol (FTP). If the facility prohibits or limits the use of FTP, the program can also send the encrypted file as an e-mail attachment. The method meets government security requirements.

- 2) **Web Plus**
An alternate method is the Web Plus program that securely uploads the facility's data file through a browser. The method also meets government security requirements.
 - b. **Submitting on Diskettes**
Effective July 2009 the State Cancer Registry no longer processes data submitted on diskettes. Diskettes received and processed prior to this date have been securely backed up to a server and have been destroyed by the Commission on Public Records.
 - c. **Abstract Forms & Paper Copies of Medical Records**
Mail labeled "CONFIDENTIAL MEDICAL INFORMATION" is opened only by designated State Registry staff. Such mail is kept in a secure location before and after it is processed. State Cancer Registry personnel stamp each form with the date received and maintain a register by hospital documenting the date the batch was received, the date the batch was entered, the number of forms enclosed, and the accession year for the cases. The State Registry retains the abstract forms and registers indefinitely. After processing, abstract forms are filed by hospital, accession year, and accession number.
 - d. **Quality Control Communications**
When State Registry quality control (QC) activities require returning abstracts, inquiry forms, or discrepancy lists to reporting facilities, the mailings are carefully sealed and labeled "CONFIDENTIAL MEDICAL INFORMATION." When telephone calls are made to address QC issues, reasonable efforts are made to ensure the conversations are private and addressed to an authorized data collector at the reporting facility. When QC communications are transmitted by electronic mail (e-mail), patient-identifying information will be limited to accession numbers. Patient-identifying e-mail received at the State Registry is treated with the same level of security and confidentiality as other confidential medical information.
 - e. **Facsimile Transmission**
Confidential information should be transmitted via facsimile only when urgently needed for patient care. When such transmission is necessary, the cover page will include a confidentiality notice that indicates the information is confidential and limits its use. After transmission, a follow-up call will be made to verify that the information was sent to the appropriate destination.
4. **Disaster Recovery**
The Indiana State Department of Health Information Technology Services is responsible for the comprehensive disaster recovery plan that includes the State Cancer Registry data and systems. The plan includes frequent and regular backup, off-site storage, and procedures for retrieval. It is designed to protect operating systems, applications, and data.
 5. **Sabotage**
Anti-virus software is used to help detect and block computer viruses and other forms of sabotage.
 6. **Release of Registry Data**
 - a. **Hospital Requests**
Confidential information may be released by authorized State Registry personnel to health care providers and institutions upon verbal or written request and without further review procedures under either of the following circumstances:
 1. The requestor is directly involved in the care or follow-up of the patient;
 - 2) The information requested is from the hospital's own registry.
 - b. **Patient or Individual Requests**

The State Cancer Registry staff do not respond to individuals requesting whether or not the State Registry contains information about them. Individuals making such requests are referred to their treating physician.

c. Physician Requests

Confidential information may be released to physicians and local health officers for diagnostic and treatment purposes if the patient signs a written consent and the patient's attending physician gives verbal or written consent to the release.

d. Other States

Pursuant to IC 16-38-2-7, effective May 15, 1988, the Indiana Cancer Registry may release confidential information concerning individual cancer patients to the cancer registry of another state under the following condition: The other state has entered into a reciprocal agreement with the State Cancer Registry which provides that information that identifies a patient will not be released to any other person without the written consent of the patient.

e. Other External Requests

1) Requests for use of confidential data are handled in accordance with IC 16-38-2-(5-7).

2) Confidential cancer registry data will not be made available for the following purposes:

- a) Businesses that are trying to market a product to cancer patients;
- b) Health care institutions that are trying to recruit new patients;
- c) Insurance companies that are trying to determine the medical status of a patient.

3) Requests for State Cancer Registry data for other purposes, such as research projects, are processed as outlined below.

- a) The request must be submitted in writing and include the following information:
 - The purpose for which data are needed or an outline of the proposed research with a justification of the need for the data;
 - The information required;
 - The names of the persons who will have access to the confidential information;
 - The time period for which the data are needed.

A record is kept of the date and type of all requests.

b) The written request is submitted to the Indiana State Department of Health Data Request Committee for review. The committee must approve the request before release can be made. The State Cancer Registry reserves the right to limit the amount of data to be provided to an individual requestor.

c) If the request is approved, researchers must sign an agreement acknowledging responsibility to maintain patient confidentiality, cite the source of the data in any publication or presentation, and provide the State Cancer Registry with copies of any publications or presentations that may use the data prior to their release. Violation of any part of this agreement shall prevent further access to the data, and shall result in a letter of reprimand to the chief executive officer of the researcher's institution. In addition, other researchers at the institution may be denied access to the data until the Program Director is assured that no other violations will occur.

All requestors must assure:

- That he/she is bound by the principles of confidentiality observed by the personnel of the State Cancer Registry;
- That the data will not be used for purposes other than those agreed upon at the time of release;

- That the data will not be released to unauthorized individuals or parties; and
- That data that are no longer needed for the designated purpose will be returned or destroyed.

f. State Initiated Requests

The Program Director monitors all state initiated research activities to ensure that only relevant activities are undertaken. State affiliated researchers are expected to abide by the same restrictions as outside researchers.

APPENDIX A: LEGISLATION AND REGULATIONS
INDIANA CODE 16-38-2
Public Law 2-1993, Section 21

IC 16-38-2-1 Cancer registry; establishment

- Sec. 1. (a) The state department shall establish a cancer registry for the purpose of:
- (1) recording:
 - (A) all cases of malignant disease; and
 - (B) other tumors and precancerous diseases required to be reported by:
 - (i) federal law or federal regulation; or
 - (ii) the National Program of Cancer Registries; that are diagnosed or treated in Indiana; and
 - (2) compiling necessary and appropriate information concerning those cases, as determined by the state department; in order to conduct epidemiologic surveys of cancer and to apply appropriate preventive and control measures.
- (b) The department may contract for the collection and analysis of, and the research related to, the epidemiologic data compiled under this chapter.

As added by P.L. 2-1993, SEC.21. Amended by P.L. 93-2001, SEC.1; P.L. 17-2004, SEC.2.

IC 16-38-2-2 Development of registry from existing data

- Sec. 2. The state department shall, to the greatest extent possible, utilize information compiled by public or private cancer registries in the development of a statewide cancer registry under this chapter.

As added by P.L. 2-1993, SEC.21.

IC 16-38-2-3 Reports

- Sec. 3. (a) The following persons shall report to the cancer registry each confirmed case of cancer and other tumors and precancerous diseases required to be recorded under section 1 of this chapter:
- (1) Physicians.
 - (2) Dentists.
 - (3) Hospitals.
 - (4) Medical laboratories.
 - (5) Ambulatory outpatient surgical centers.
 - (6) Health facilities.
- (b) A person required to report information to the state cancer registry under this section may utilize, when available:
- (1) information submitted to any other public or private cancer registry; or
 - (2) information required to be filed with federal, state, or local agencies; when completing reports required by this chapter. However, the state department may require additional, definitive information.

As added by P.L. 2-1993, SEC.21. Amended by P.L. 17-2004, SEC.3.

IC 16-38-2-4 Confidentiality

- Sec. 4. Except as provided in sections 5, 6, and 7 of this chapter, information obtained under this chapter by the state department concerning individual cancer patients is for the confidential use of the state department only.

As added by P.L. 2-1993, SEC.21.

IC 16-38-2-5 Access to confidential information for research purposes

- Sec. 5. The state department shall grant any person involved in a legitimate research activity access to confidential information concerning individual cancer patients obtained by the state department under this chapter if all of the following conditions are met:
- (1) The person conducting the research provides written information about the following:
 - (A) The purpose of the research project.
 - (B) The nature of the data to be collected and how the researcher intends to analyze the data.
 - (C) The records the researcher desires to review.
 - (D) The safeguards the researcher will take to protect the identity of the patients whose records the researcher will be reviewing.
 - (2) The proposed safeguards are adequate to protect the identity of each patient whose records will be reviewed.
 - (3) An agreement is executed between the state department and the researcher that meets all of the following conditions:
 - (A) Specifies the terms of the researcher's use of the records.
 - (B) Prohibits the publication or release of the names of individual cancer patients or any facts tending to lead to the identification of individual cancer patients.

As added by P.L. 2-1993, SEC.21.

IC 16-38-2-6 Additional information requests; individual patients; consents

- Sec. 6. Researchers may, with the approval of the state department, use the names of individual cancer patients when requesting additional information for research purposes or soliciting an individual patient's participation in a research project. However, if a researcher requests additional information for an individual cancer patient's participation in a research project, the researcher must first obtain the oral or written consent of the patient's attending physician. If the consent of the patient's attending physician is obtained, the researcher must then obtain the individual cancer patient's written consent by having the patient complete a release of confidential medical information form.

As added by P.L. 2-1993, SEC.21.

IC 16-38-2-7 Release of confidential information

- Sec. 7 The state department may release confidential information concerning individual cancer patients to the following:
- (1) The cancer registry of another state if the following conditions are met:
 - (A) The other state has entered into a reciprocal agreement with the state department.
 - (B) The agreement provides that information that identifies a patient will not be released to any other person without the written consent of the patient.
 - (2) Physicians and local health officers for diagnostic and treatment purposes if the following conditions are met:
 - (A) The patient's attending physician gives oral or written consent to the release of the information.
 - (B) The patient gives written consent by completing a release of confidential information form.

As added by P.L. 2-1993, SEC.21.

IC 16-38-2-8 Immunity from liability

- Sec. 8. A person who reports information to the cancer registry system under this chapter is immune from any civil or criminal liability that might otherwise be imposed because of the release of what is otherwise confidential information.

As added by P.L. 2-1993, SEC.21.

IC 16-38-2-9 Epidemiological information; release

Sec. 9 This chapter does not prevent the release to any interested person of epidemiological information that does not identify individual cancer patients.
As added by P.L. 2-1993, SEC.21.

IC 16-38-2-10 Administrative rules

Sec. 10. The state department shall adopt rules under IC 4-22-2 necessary to carry out this chapter.
As added by P.L. 2-1993, SEC.21.

IC 16-38-2-11 Annual report

Sec. 11. Not later than December 31 of each year, the department shall publish and make available to the public an annual report summarizing the information collected under this chapter during the previous calendar year.
As added by P.L.93-2001, SEC.2. Amended by P.L. 17-2004, SEC.4.

INDIANA ADMINISTRATIVE CODE – 410 IAC 21-1**ARTICLE 21. REPORTING****Rule 1. State Cancer Registry****410 IAC 21-1-1 Definitions**

Authority: IC 16-38-2-10

Affected: IC 16-38-2

Sec. 1. As used in 410 IAC 21-1:

“Cancer registry” means a mechanism by which data relating to all cases of malignant disease that occur in Indiana residents is recorded and, necessary and appropriate information is compiled concerning those cases as determined by the board, in order to conduct epidemiologic surveys of cancer and to apply appropriate preventive and control measures.

“Confirmed case” means the best evidence available for determining the nature of malignant disease using the following methods and codes: 1 = positive histology; 2 = positive exfoliative histology in the absence of positive histology; (3 is vacant) 4 = positive microscopic confirmation not otherwise specified (NOS); (5 is vacant) 6 = direct visualization without microscopic confirmation; 7 = radiography without microscopic confirmation; 8 = clinical diagnosis (other than 6 or 7) including gross examination at autopsy; and 9 = unspecified whether or not microscopically confirmed, unknown. This is a priority series with code 1 taking precedence. Each number takes priority over all higher numbers (i.e., 1 over 4, and 5 over 9 etc.).

“Data set” means all clinical, pathological [*sic.*] therapeutic and demographic information defined in 410 IAC 21-1-3 and 410 IAC 21-1-4.

“ICD-O” means International Classification of Diseases for Oncology, 1976, World Health Organization publication, Organisation Mondiale De La Sante, 1211, Geneva 27, Switzerland.

“Indiana resident” means an individual domiciled in the state of Indiana.

“Malignant disease” means confirmed cases of cancer enumerated in the ICD-O excluding superficial, squamous and basal cell carcinomas of the skin.

“Patient” means any individual who is ill, or undergoing diagnosis or treatment for disease by a dentist, medical laboratory, physician or hospital.

“Person” means an individual, association, partnership, corporation, or governmental entity.

“State board” means the Indiana state board of health. (*Indiana State Department of Health; 410 IAC 21-1-1; filed Nov 7, 1986, 3:30 pm: 10 IR 420; readopted filed Jul 11, 2001, 2:23 p.m.: 24 IR 4234*)

410 IAC 21-1-2 General requirements

Authority: IC 16-38-2-10

Affected: IC 5-15-5.1-5; IC 16-38-2

Sec. 2. (a) All physicians, dentists, hospitals and medical laboratories shall report all confirmed cases of cancer occurring in Indiana residents who have been diagnosed or treated in Indiana, to the state board cancer registry.

(b) Any health care provider reporting to a public or private cancer registry on September 1, 1985 shall make available to the state cancer registry, all data as required under 410 IAC 21-1-3 (hospitals) or

- 410 IAC 21-1-4 (physicians, dentists and medical laboratories) upon the effective date of 410 IAC 21-1.
- (c) The state board shall assure state cancer registry computer compatibility for any health care provider who on or before the effective date of 410 IAC 21-1 elects to transmit the required data by way of a computerized mechanism.
 - (d) Any health care provider who, after the effective date of 410 IAC 21-1, establishes a computerized mechanism for the purpose of transmitting abstracted data sets via computer link up, tape transfer, or direct interface, shall be responsible for assuring system compatibility with the state board cancer registry.
 - (e) Any health care provider who elects to transfer abstracted data sets to the state cancer registry in paper form, shall utilize an abstract form designed or approved by the state board pursuant to IC 5-15-5.1-5.
 - (f) All manually prepared data sets shall be mailed or delivered by the health care provider to the state cancer registry.
 - (g) All health care providers not reporting to a public or private cancer registry on September 1, 1985, shall begin submitting data on cases diagnosed on or after January 1, 1987 to the state cancer registry as set out in 410 IAC 21-1-3 (hospitals) or 410 IAC 21-1-4 (physicians, dentists and medical laboratories), no later than six (6) months following the date of such diagnosis.
 - (h) Reports of confirmed cases of malignant disease shall be submitted to the state cancer registry within six (6) months following a confirmed diagnosis. (*Indiana State Department of Health; 410 IAC 21-1-2; filed Nov 7, 1986, 3:30 pm: 10 IR 420; readopted filed Jul 11, 2001, 2:23 p.m.: 24 IR 4234*)

410 IAC 21-1-3 Hospitals

Authority: IC 16-38-2-10

Affected: IC 16-38-2

Sec. 3. (a) All hospitals shall submit abstracted data sets to the state board cancer registry which shall include but not be limited to the following data items:

- (1) site code
- (2) accession number
- (3) sequence number
- (4) accession year
- (5) social security number
- (6) medical record number
- (7) full name (including maiden name)
- (8) home address, city, county, state and zip code
- (9) phone number
- (10) date of birth
- (11) sex
- (12) race
- (13) class of case
- (14) admission date
- (15) follow-up physician
- (16) discharge date
- (17) date of initial diagnosis
- (18) topography code
- (19) paired organ involvement
- (20) histology code
- (21) tumor grade
- (22) diagnostic confirmation
- (23) tumor size (largest dimension)
- (24) number of positive nodes
- (25) number of nodes examined
- (26) sites of distant metastasis
- (27) general summary stage

- (28) TNM stage
- (29) AJCC stage group
- (30) TNM staging basis
- (31) date and method of first course of treatment
- (32) subsequent therapies/treatments (dates and methods)

(b) Available updated information regarding all elements enumerated in 410 IAC 21-1-3(a) shall be reported to the state board cancer registry each twelve (12) month period following the initial reporting of the disease. (*Indiana State Department of Health; 410 IAC 21-1-3; filed Nov 7, 1986, 3:30 pm: 10 IR 421; readopted filed Jul 11, 2001, 2:23 p.m.: 24 IR 4234*)

410 IAC 21-1-4 Physicians, dentists and medical laboratories

Authority: IC 16-38-2-10

Affected: IC 16-38-2

Sec. 4. (a) Any physician, dentist or medical laboratory who diagnoses a case of malignant disease when such case is not referred to a hospital for further diagnosis or treatment, shall submit required data sets to the state cancer registry. Such data sets shall include but not be limited to the following available data items:

- (1) patient's full name (including maiden name)
- (2) patient's address (including city, county, state and zip code)
- (3) social security number
- (4) date of birth
- (5) sex
- (6) race
- (7) date of diagnosis
- (8) topography
- (9) morphology
- (10) diagnostic confirmation
- (11) hospital referred to
- (12) physician, dentist or laboratory license number
- (13) physician, dentist or laboratory name, address and phone number

(b) Physicians, dentists and medical laboratories whose offices are located within the confines of a hospital or, who are employed or contracted by a hospital and who diagnose or treat patients for malignant disease, shall not be required to report cases of malignant disease under 410 IAC 21-1-4. Such cases shall be reported in accordance with 410 IAC 21-1-3. (*Indiana State Department of Health; 410 IAC 21-1-4; filed Nov 7, 1986, 3:30 pm: 10 IR 421; readopted filed Jul 11, 2001, 2:23 p.m.: 24 IR 4234*)

410 IAC 21-1-5 Security and confidentiality of data

Authority: IC 16-38-2-10

Affected: IC 5-14-3-10; IC 16-38-2

Sec. 5. (a) The state board shall assure confidentiality of patient record data when entering, retrieving, reviewing and utilizing such data.

- (b) The state board shall take all precautions and security measures necessary in order to protect the cancer registry data from intrusion or misuse by unauthorized individuals, and to preserve the right to privacy of individual patients maintained on the registry.
- (c) Pursuant to IC 5-14-3-10, any public employee or official, or any employee or officer of a contractor or subcontractor of a public agency who knowingly or intentionally discloses the identity of a patient maintained on the state cancer registry system to a person not authorized to receive such information, commits a Class A misdemeanor. Any public employee shall be disciplined in accordance with the personnel policies of the agency by which he is employed if he intentionally,

knowingly, or recklessly discloses or fails to protect the identity of patients maintained on the state cancer registry system.

- (d) A person who reports information to the cancer registry system in accordance with 410 IAC 21-1, is immune from any civil or criminal liability that might otherwise be imposed because of release of what is otherwise confidential information. (*Indiana State Department of Health; 410 IAC 21-1-5; filed Nov 7, 1986, 3:30 pm: 10 IR 422; readopted filed Jul 11, 2001, 2:23 p.m.: 24 IR 4234*)

410 IAC 21-1-6 Cancer registry reports

Authority: IC 16-38-2-10

Affected: IC 16-38-2

Sec. 6. (a) The state board shall make available to all hospitals licensed under IC 16-10-1 [*IC 16-10 was repealed by P.L.2-1993, SECTION 209, effective April 30, 1993.*], a comprehensive annual report which outlines the trends of malignant disease in Indiana and focuses on specific elements of special study regarding the disease.

- (b) Hospitals, physicians, dentists, laboratories and other persons may request and be provided with special reports from the state cancer registry, providing the data requested does not disclose the identity of a patient. (*Indiana State Department of Health; 410 IAC 21-1-6; filed Nov 7, 1986, 3:30 pm: 10 IR 422; readopted filed Jul 11, 2001, 2:23 p.m.: 24 IR 4234*)

Public Law 102-515
102d Congress

An Act

Oct. 24, 1992
 [S. 3312]

Entitled the “Cancer Registries Amendment Act.”

Cancer
 Registries
 Amendment
 Act.
 Diseases.
 Health and health
 care.
 42 USC 201 note.
 42 USC 280e note.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE.

This Act may be cited as the “Cancer Registries Amendment Act.”

SEC.2. FINDINGS AND PURPOSE

(a) **FINDINGS.**—Congress finds that—

(1) cancer control efforts, including prevention and early detection, are best addressed locally by State health departments that can identify unique needs;

(2) cancer control programs and existing statewide population-based cancer registries have identified cancer incidence and cancer mortality rates that indicate the burden of cancer for Americans is substantial and varies widely by geographic location and by ethnicity;

(3) Statewide cancer incidence and cancer mortality data, can be used to identify cancer trends, patterns, and variation for directing cancer control intervention;

(4) the American Association of Central Cancer Registries (AACCR) cites that of the 50 States, approximately 38 have established cancer registries, many are not statewide and 10 have no cancer registry; and

(5) AACCR also cites that of the 50 States, 39 collect data on less than 100 percent of their population, and less than half have adequate resources for insuring minimum standards for quality and for completeness of case information.

(b) **PURPOSE.**—It is the purpose of this Act to establish a national program of cancer registries.

SEC. 3. NATIONAL PROGRAM OF CANCER REGISTRIES.

Title III of the Public Health Service Act (42 U.S.C. 241 et seq.) is amended by adding at the end the following new part:

“PART M—NATIONAL PROGRAM OF CANCER REGISTRIES”

“SEC. 399H. NATIONAL PROGRAM OF CANCER REGISTRIES.

“(a) **IN GENERAL.**—The Secretary, acting through the Director of the Centers for Disease Control, may make grants to States, or may make grants or enter into contracts with academic or nonprofit organizations designated by the State to operate the State’s cancer registry in lieu of making a grant directly to the State, to support the operation of population-based, statewide cancer registries in order to collect, for each form of in-situ and invasive cancer (with the exception of basal cell and squamous cell carcinoma of the skin), data concerning—

42 USC 280e.

“(1) demographic information about each case of cancer;

“(2) information on the industrial or occupational history of the individuals with the cancers, to the extent such information is available from the same record;

“(3) administrative information, including date of diagnosis and source of information;

“(4) pathological data characterizing the cancer, including the cancer site, stage of disease (pursuant to Staging Guide), incidence, and type of treatment; and

“(5) other elements determined appropriate by the Secretary.

“(b) MATCHING FUNDS.-

“(1) IN GENERAL.-The Secretary may make a grant under subsection (a) only if the State, or the academic or nonprofit private organization designated by the State to operate the cancer registry of the State, involved agrees, with respect to the costs of the program, to make available (directly or through donations from public or private entities) non-Federal contributions toward such costs in an amount that is not less than 25 percent of such costs or \$1 for every \$3 of Federal funds provided in the grant.

“(2) DETERMINATION OF AMOUNT OF NON-FEDERAL CONTRIBUTION; MAINTENANCE OF EFFORT.-

“(A) Non-Federal contributions required in paragraph (1) may be in cash or in kind, fairly evaluated, including plant, equipment, or services. Amounts provided by the Federal Government, or services assisted or subsidized to any significant extent by the Federal Government, may not be included in determining the amount of such non-Federal contributions.

“(B) With respect to a State in which the purpose described in subsection (a) is to be carried out, the Secretary, in making a determination of the amount of non-Federal contributions provided under paragraph (1), may include only such contributions as are in excess of the amount of such contributions made by the State toward the collection of data on cancer for the fiscal year preceding the first year for which a grant under subsection (a) is made with respect to the State. The Secretary may decrease the amount of non-Federal contributions that otherwise would have been required by this subsection in those cases in which the State can demonstrate that decreasing such amount is appropriate because of financial hardship.

“(c) ELIGIBILITY FOR GRANTS.-

“(1) IN GENERAL.-No grant shall be made by the Secretary under subsection (a) unless an application has been submitted to, and approved by, the Secretary. Such application shall be in such form, submitted in such a manner, and be accompanied by such information, as the Secretary may specify. No such application may be approved unless it contains assurances that the applicant will use the funds provided only for the

purposes specified in the approved application and in accordance with the requirements of this section, that the application will establish such fiscal control and fund accounting procedures as may be necessary to assure proper disbursement and accounting of Federal funds paid to the applicant under subsection (a) of this section, and that the applicant will comply with the peer review requirements under sections 491 and 492.

“(2) ASSURANCES.-Each applicant, prior to receiving Federal funds under subsection (a), shall provide assurances satisfactory to the Secretary that the applicant will-

“(A) provide for the establishment of a registry in accordance with subsection (a);

“(B) comply with appropriate standards of completeness, timeliness, and quality of population-based cancer registry data;

“(C) provide for the annual publication of reports of cancer data under subsection (a); and

“(D) provide for the authorization under State law of the statewide cancer registry, including promulgation of regulations providing-

“(i) a means to assure complete reporting of cancer cases (as described in subsection (a)) to the statewide cancer registry by hospitals or other facilities providing screening, diagnostic or therapeutic services to patients with respect to cancer;

“(ii) a means to assure the complete reporting of cancer cases (as defined in subsection (a)) to the statewide cancer registry by physicians, surgeons, and all other health care practitioners diagnosing or providing treatment for cancer patients, except for cases directly referred to or previously admitted to a hospital or other facility providing screening, diagnostic or therapeutic services to patients in that State and reported by those facilities;

“(iii) a means for the statewide cancer registry to access all records of physicians and surgeons, hospitals, outpatient clinics, nursing homes, and all other facilities, individuals, or agencies providing such services to patients which would identify cases of cancer or would establish characteristics of the cancer, treatment of the cancer, or medical status of any identified patient;

“(iv) for the reporting of cancer case data to the statewide cancer registry in such a format, with such data elements, and in accordance with such standards of quality timeliness and completeness, as may be established by the Secretary;

“(v) for the protection of the confidentiality of all cancer case data reported to the statewide cancer registry, including a prohibition on disclosure to any person of information reported to the statewide cancer registry that identifies, or could lead to the identification of, an individual cancer patient, except for disclosure to other State cancer registries and local and State health officers;

“(vi) for a means by which confidential case data may in accordance with State law be disclosed to cancer researchers for the purposes of cancer prevention, control and research;

“(vii) for the authorization or the conduct, by the statewide cancer registry or other persons and organizations, of studies utilizing statewide cancer registry data, including studies of the sources and causes of cancer, evaluations of the cost, quality, efficacy, and appropriateness of diagnostic, therapeutic, rehabilitative, and preventative services and programs relating to cancer, and any other clinical, epidemiological, or other cancer research; and

“(viii) for protection for individuals complying with the law, including provisions specifying that no person shall be held liable in any civil action with respect to a cancer case report provided to the statewide cancer registry, or with respect to access to cancer case information provided to the statewide cancer registry.

“(d) RELATIONSHIP TO CERTAIN PROGRAMS.-

“(1) IN GENERAL.-This section may not be construed to act as a replacement for or diminishment of the program carried out by the Director of the National Cancer Institute and designated by such Director as the Surveillance, Epidemiology, and End Results Program (SEER).

“(2) SUPPLANTING OF ACTIVITIES.-In areas where both such programs exist, the Secretary shall ensure that SEER support is not supplanted and that any additional activities are consistent with the guidelines provided for in subsection (c)(2) (C) and (D) and are appropriately coordinated with the existing SEER program.

“(3) TRANSFER OF RESPONSIBILITY.- The Secretary may not transfer administration responsibility for such SEER program from such Director.

“(4) COORDINATION.-To encourage the greatest possible efficiency and effectiveness of Federally supported efforts with respect to the activities described in this subsection, the Secretary shall take steps to assure the appropriate coordination of programs supported under this part with existing Federally supported cancer registry programs.

“(e) REQUIREMENT REGARDING CERTAIN STUDY ON BREAST CANCER.-In the case of a grant under subsection (a) to any State specified in section 399K(b), the Secretary may establish such conditions regarding the receipt of the grant as the Secretary determines are necessary to facilitate the collection of data for the study carried out under section 399C.

“**SEC. 399I. PLANNING GRANTS REGARDING REGISTRIES.**

42 USC 280e-1.

“(a) IN GENERAL.-

“(1) STATES.-The Secretary, acting through the Director of the Centers for Disease Control, may make grants to States for the purpose of developing plans that meet the assurances required by the Secretary under section 399B(c)(2).

“(2) OTHER ENTITIES.-For the purpose described in paragraph (1), the Secretary may make grants to public entities other than States and to nonprofit private entities. Such a grant may be made to an entity only if the State in which the purpose is to be carried out has certified that the State approves the entity as qualified to carry out the purpose.

“(b) APPLICATION.-The Secretary may make a grant under subsection (a) only if an application for the grant is submitted to the Secretary, the application contains the certification required in subsection (a)(2) (if the application is for a grant under such subsection), and the application is in such form, is made in such manner, and contains such agreements, assurances, and information as the Secretary determines to be necessary to carry out this section.

42 USC 280e-2.

“SEC. 399J. TECHNICAL ASSISTANCE IN OPERATIONS OF STATEWIDE CANCER REGISTRIES.

“The Secretary, acting through the Director of the Centers for Disease Control, may, directly or through grants and contracts, or both, provide technical assistance to the States in the establishment and operation of statewide registries, including assistance in the development of model legislation for statewide cancer registries and assistance in establishing a computerized reporting and data processing system.

42 USC 280e-3.

“SEC. 399K. STUDY IN CERTAIN STATES TO DETERMINE THE FACTORS CONTRIBUTING TO THE ELEVATED BREAST CANCER MORTALITY RATES.

“(a) IN GENERAL.-Subject to subsections (c) and (d), the Secretary, acting through the Director of the National Cancer Institute, shall conduct a study for the purpose of determining the factors contributing to the fact that breast cancer mortality rates in the States specified in subsection (b) are elevated compared to rates in other States.

“(b) RELEVANT STATES.-The States referred to in subsection (a) are Connecticut, Delaware, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, Vermont, and the District of Columbia.

“(c) COOPERATION OF STATE.-The Secretary may conduct the study required in subsection (a) in a State only if the State agrees to cooperate with the Secretary in the conduct of the study, including providing information from any registry operated by the State pursuant to section 399H(a).

“(d) PLANNING, COMMENCEMENT, AND DURATION.-The Secretary shall, during each of the fiscal years 1993 and 1994, develop a plan for conducting the study required in subsection (a). The study shall be initiated by the Secretary not later than fiscal year 1994, and the collection of data under the study may continue through fiscal year 1998.

“(e) REPORT.-Not later than September 30, 1999, the Secretary shall complete the study required in subsection (a) and submit to the Committee on Energy and Commerce of the House of Representatives, and to the Committee on Labor and Human Resources of the Senate, a report describing the findings and recommendations made as a result of the study.

“SEC. 399L. AUTHORIZATION OF APPROPRIATIONS.

42 USC 280e-4.

“(a) REGISTRIES.-For the purpose of carrying out this part, the Secretary may use \$30,000,000 for each of the fiscal years 1993 through 1997. Out of any amounts used for any such fiscal year, the Secretary may obligate not more than 25 percent for carrying out section 399I, and not more than 10 percent may be expended for assessing the accuracy, completeness and quality of data collected, and not more than 10 percent of which is to be expended under subsection 399J.

“(b) BREAST CANCER STUDY.-Of the amounts appropriated for the National Cancer Institute under subpart 1 of part C of title IV for any fiscal year in which the study required in section 399K is being carried out, the Secretary shall expend not less than \$1,000,000 for the study.”

Approved October 24, 1992.

Authorization extended through 1998.

Public Law 107-260**Benign Brain Tumor Cancer Registries Amendment Act****SECTION 1. SHORT TITLE.**

This Act may be cited as the “Benign Brain Tumor Cancer Registries Amendment Act.”

SEC. 2. NATIONAL PROGRAM OF CANCER REGISTRIES; BENIGN BRAIN-RELATED TUMORS AS ADDITIONAL CATEGORY OF DATA COLLECTED.

(a) **IN GENERAL-** Section 399B of the Public Health Service Act (42 U.S.C. 280e), as redesignated by section 502(2)(A) of Public Law 106-310 (114 Stat. 1115), is amended in subsection (a)--

(1) by redesignating paragraphs (1) through (5) as subparagraphs (A) through (E), respectively, and indenting appropriately;

(2) by striking "(a) **IN GENERAL-** The Secretary" and inserting the following:

(a) **IN GENERAL-**

(1) **STATEWIDE CANCER REGISTRIES-** The Secretary;

(3) in the matter preceding subparagraph (A) (as so redesignated), by striking “population-based” and all that follows through “data” and inserting the following: population-based, statewide registries to collect, for each condition specified in paragraph (2)(A), data; and

(4) by adding at the end the following:

(2) **CANCER; BENIGN BRAIN-RELATED TUMORS-**

(A) **IN GENERAL-** For purposes of paragraph (1), the conditions referred to in this paragraph are the following:

(i) Each form of in-situ and invasive cancer (with the exception of basal cell and squamous cell carcinoma of the skin), including malignant brain-related tumors.

(ii) Benign brain-related tumors.

(B) **BRAIN-RELATED TUMOR-** For purposes of subparagraph (A):

(i) The term “brain-related tumor” means a listed primary tumor (whether malignant or benign) occurring in any of the following sites:

(I) The brain, meninges, spinal cord, cauda equina, a cranial nerve or nerves, or any other part of the central nervous system.

(II) The pituitary gland, pineal gland, or craniopharyngeal duct.

(ii) The term “listed,” with respect to a primary tumor, means a primary tumor that is listed in the International Classification of Diseases for Oncology (commonly referred to as the ICD-O).

(iii) The term “International Classification of Diseases for Oncology” means a classification system that includes topography (site) information and histology (cell type information) developed by the World Health Organization, in collaboration with international

centers, to promote international comparability in the collection, classification, processing, and presentation of cancer statistics. The ICD-O system is a supplement to the International Statistical Classification of Diseases and Related Health Problems (commonly known as the ICD) and is the standard coding system used by cancer registries worldwide. Such term includes any modification made to such system for purposes of the United States. Such term further includes any published classification system that is internationally recognized as a successor to the classification system referred to in the first sentence of this clause.

(C) STATEWIDE CANCER REGISTRY- References in this section to cancer registries shall be considered to be references to registries described in this subsection.

(b) APPLICABILITY- The amendments made by subsection (a) apply to grants under section 399B of the Public Health Service Act for fiscal year 2002 and subsequent fiscal years, except that, in the case of a State that received such a grant for fiscal year 2000, the Secretary of Health and Human Services may delay the applicability of such amendments to the State for not more than 12 months if the Secretary determines that compliance with such amendments requires the enactment of a statute by the State or the issuance of State regulations.

APPENDIX B: REPORTABLE LIST

The definitions in the State Cancer Registry Policy and Procedure Manual describe reportable cases in terms of their *ICD-O-3* topography and morphology codes. These pages contain all reportable malignancies with an *International Classification of Diseases of Oncology, Third Edition (ICD-O-3)* behavior code of /2 or /3. Diagnoses with a behavior code of /0 (benign) or /1 (borderline) are not reportable to the State Cancer Registry except for intracranial and central nervous tumors diagnosed 01/01/2004 and later. See section B of this appendix for the reportable list of benign and borderline intracranial and central nervous tumors.

A. REPORTABLE MALIGNANCIES

Conditions are to be reported if the diagnosis includes the words:

Cancer
Carcinoma (except certain basal or squamous cell carcinomas of the skin, CIS, CIN III, and PIN III, as described in Chapter 3)
Leukemia
Lymphoma
Malignant
Melanoma
Sarcoma

The following terms, used as adjectives, are also to be reported when used in the description of a malignancy:

Anaplastic
Histiocytic
Intraepithelial
Keratinizing
Medullary
Moderately differentiated
Non-keratinizing
Poorly differentiated
Small cell
Well differentiated

The morphologic terms listed below are malignancies and should be reported. Changes in *ICD-O-3* are identified by special formatting that is explained below.

- Underlined terms represent newly reportable morphology terms for 2010 diagnoses. Most, but not all, of the underlined terms have new *ICD-O-3* codes associated with them.
- **Highlighted items** are terms that changed from borderline in *ICD-O-2* to malignant in *ICD-O-3* and are reportable if diagnosed on or after January 1, 2001.
- A ~~strikethrough~~ indicates the term was changed from malignant in *ICD-O-2* to borderline in *ICD-O-3* and is not reportable if diagnosed on or after January 1, 2001.
- [obs] designates terminology that is identified as obsolete in *ICD-O-3*.

-A-

Acidophil adenocarcinoma
Acidophil carcinoma
Acinar adenocarcinoma
Acinar carcinoma
Acinar cell carcinoma
Acinar cell cystadenocarcinoma
Acinic cell adenocarcinoma
Acral lentiginous melanoma, malignant

Acute basophilic leukemia
Acute bilineal leukemia
Acute biphenotypic leukemia
Acute differentiated progressive histiocytosis
(See acute progressive histiocytosis X)
Acute erythremia [obs]
Acute erythremic myelosis [obs]
Acute erythroid leukemia
Acute granulocytic leukemia, minimal differentiation

Acute granulocytic leukemia (<i>FAB or WHO type not specified</i>)	Acute myeloid leukemia, M6 type
Acute granulocytic leukemia with maturation	Acute myeloid leukemia, MLL
Acute granulocytic leukemia without maturation	Acute myeloid leukemia, PML/RAR-alpha
Acute leukemia, Burkitt type [obs]	Acute myeloid leukemia, t(8;21)(q22;q22)
Acute leukemia, NOS	Acute myeloid leukemia, t(15;17)(q22;q11-12)
Acute lymphatic leukemia	Acute myeloid leukemia, t(16;16)(p13;q11)
Acute lymphatic leukemia, L1 type	Acute myelomonocytic leukemia, NOS
Acute lymphatic leukemia, L2 type	Acute myelomonocytic leukemia with <u>abnormal</u> eosinophils
Acute lymphoblastic leukemia, Burkitt type	Acute myelosclerosis
Acute lymphoblastic leukemia, L1 type, NOS	Acute non-lymphocytic leukemia
Acute lymphoblastic leukemia, L2 type, NOS	Acute panmyelosis, NOS [obs]
Acute lymphoblastic leukemia, mature B-cell type	Acute panmyelosis with myelofibrosis
Acute lymphoblastic leukemia, NOS	Acute progressive histiocytosis X
Acute lymphoblastic leukemia, precursor-cell type	Acute promyelocytic leukemia, NOS
Acute lymphoblastic leukemia-lymphoma, NOS	Acute promyelocytic leukemia, PML/RAR-alpha
Acute lymphocytic leukemia	Acute promyelocytic leukemia, t(15;17)(q22;q11-12)
Acute lymphocytic leukemia, L1 type	Adamantinoma, malignant
Acute lymphocytic leukemia, L2 type	Adamantinoma of long bones
Acute lymphoid leukemia	Adenoacanthoma
Acute lymphoid leukemia, L1 type	Adenocarcinoid tumor
Acute lymphoid leukemia, L2 type	Adenocarcinoma combined with other types of carcinoma
Acute megakaryoblastic leukemia	Adenocarcinoma, cylindroid
Acute mixed lineage leukemia	Adenocarcinoma, diffuse type
Acute monoblastic leukemia	Adenocarcinoma, endocervical type
Acute monocytic leukemia	Adenocarcinoma in a polyp, NOS
Acute myeloblastic leukemia, minimal differentiation	Adenocarcinoma in adenomatous polyp
Acute myeloblastic leukemia	Adenocarcinoma in adenomatous polyposis coli
Acute myeloblastic leukemia with maturation	Adenocarcinoma in multiple adenomatous polyps
Acute myeloblastic leukemia without maturation	Adenocarcinoma in polypoid adenoma
Acute myelocytic leukemia, minimal differentiation	Adenocarcinoma in situ in a polyp, NOS
Acute myelocytic leukemia (<i>FAB or WHO type not specified</i>)	Adenocarcinoma in situ in adenomatous polyp
Acute myelocytic leukemia with maturation	Adenocarcinoma in situ in polypoid adenoma
Acute myelocytic leukemia without maturation	Adenocarcinoma in situ in tubular adenoma
Acute myelofibrosis	Adenocarcinoma in situ in tubulovillous adenoma
Acute myelogenous leukemia, minimal differentiation	Adenocarcinoma in situ in villous adenoma
Acute myelogenous leukemia (<i>FAB or WHO type not specified</i>)	Adenocarcinoma in situ, NOS
Acute myelogenous leukemia with maturation	Adenocarcinoma in tubular adenoma
Acute myelogenous leukemia without maturation	Adenocarcinoma in tubulovillous adenoma
<u>Acute myeloid leukemia (megakaryoblastic) with t(1;22)(p13;q13); RBM15-MKL1</u>	Adenocarcinoma in villous adenoma
Acute myeloid leukemia, minimal differentiation	Adenocarcinoma, intestinal type
Acute myeloid leukemia, NOS	Adenocarcinoma, NOS
Acute myeloid leukemia with abnormal marrow eosinophils (includes all variants)	Adenocarcinoma of anal ducts
<u>Acute myeloid leukemia with inv(3)(q21;q26.2) or t(3;3)(q21;q26.2); RPN1EV11</u>	Adenocarcinoma of anal glands
Acute myeloid leukemia with maturation	Adenocarcinoma with apocrine metaplasia
Acute myeloid leukemia with multilineage dysplasia	Adenocarcinoma with cartilaginous and osseous metaplasia
Acute myeloid leukemia with prior myelodysplastic syndrome	Adenocarcinoma with cartilaginous metaplasia
<u>Acute myeloid leukemia with t(6;9)(p23;q34) DEK-NUP214</u>	Adenocarcinoma with mixed subtypes
Acute myeloid leukemia without maturation	Adenocarcinoma with neuroendocrine differentiation
Acute myeloid leukemia without prior myelodysplastic syndrome	Adenocarcinoma with osseous metaplasia
Acute myeloid leukemia, 11q23 abnormalities	Adenocarcinoma with spindle cell metaplasia
Acute myeloid leukemia, AML1(CBF-alpha)/ETO	Adenocarcinoma with squamous metaplasia
Acute myeloid leukemia, CBF-beta/MYH11	Adenocystic carcinoma
Acute myeloid leukemia, inv(16)(p13;q22)	Adenoid basal carcinoma
	Adenoid cystic carcinoma
	Adenoid squamous cell carcinoma
	Adenosarcoma
	Adenosquamous carcinoma
	Adnexal carcinoma
	Adrenal cortical adenocarcinoma

Adrenal cortical carcinoma	Atypical chronic myeloid leukemia, BCR/ABL negative
Adrenal cortical tumor, malignant	Atypical chronic myeloid leukemia, Philadelphia chromosome (Ph1) negative
Adrenal medullary paraganglioma, malignant	Atypical medullary carcinoma
Adult T-cell leukemia	Atypical proliferative papillary serous tumor
Adult T-cell leukemia/lymphoma	Atypical teratoid/rhabdoid tumor
Adult T-cell leukemia/lymphoma (HTLV-1 positive) (includes all variants)	
Adult T-cell lymphoma	-B-
Adult T-cell lymphoma/leukemia	<u>B lymphoblastic leukemia/lymphoma, NOS</u>
Aggressive NK-cell leukemia	<u>B lymphoblastic leukemia/lymphoma with hyperdiploidy</u>
Agnogenic myeloid metaplasia	<u>B lymphoblastic leukemia/lymphoma with hypodiploidy (hypodiploid ALL)</u>
AIN III	<u>B lymphoblastic leukemia/lymphoma with t(1;19)(q23;p13.3): E2A PBX1 (TCF3 PBX1)</u>
Aleukemic granulocytic leukemia [obs]	<u>B lymphoblastic leukemia/lymphoma with t(5;14)(q31;q32): IL3-IGH</u>
Aleukemic leukemia, NOS [obs]	<u>B lymphoblastic leukemia/lymphoma with t(9;22)(q34;q11.2): BCR-ABL1</u>
Aleukemic lymphatic leukemia [obs]	<u>B lymphoblastic leukemia/lymphoma with t(12;21)(p13;q22): TEL-AML1 (ETV6-RUNX1)</u>
Aleukemic lymphocytic leukemia [obs]	<u>B lymphoblastic leukemia/lymphoma with t(v;11q23): MLL rearranged</u>
Aleukemic lymphoid leukemia [obs]	B-ALL [obs]
Aleukemic monocytic leukemia [obs]	Balloon cell melanoma
Aleukemic myelogenous leukemia [obs]	BALT lymphoma
Aleukemic myeloid leukemia [obs]	Basal cell adenocarcinoma
<u>ALK positive large B-cell lymphoma</u>	Basaloid carcinoma
Alpha cell tumor, malignant	Basaloid squamous cell carcinoma
Alpha heavy chain disease	Basophil adenocarcinoma
Alveolar adenocarcinoma	Basophil carcinoma
Alveolar carcinoma	Basophilic leukemia
Alveolar cell carcinoma	B-cell chronic lymphocytic leukemia/small lymphocytic lymphoma
Alveolar rhabdomyosarcoma	B-cell lymphoma, NOS
Alveolar soft part sarcoma	Bednar tumor
Amelanotic melanoma	Bellini duct carcinoma
Ameloblastic carcinoma	Beta cell tumor, malignant
Ameloblastic fibrodentinosa sarcoma	Bile duct adenocarcinoma
Ameloblastic fibro-odontosarcoma	Bile duct carcinoma
Ameloblastic fibrosarcoma	Bile duct cystadenocarcinoma
Ameloblastic odontosarcoma	Blast cell leukemia
Ameloblastic sarcoma	Blastoma, NOS
Ameloblastoma, malignant	Blue nevus, malignant
AML M6	Botryoid sarcoma
Anal intraepithelial neoplasia, grade III	Brenner tumor, malignant
Anaplastic large B-cell lymphoma	Bronchial adenoma, carcinoid
Anaplastic large cell lymphoma (ALCL), CD 30+	Bronchial adenoma, cylindroid [obs]
Anaplastic large cell lymphoma, NOS	Bronchial-associated lymphoid tissue lymphoma
Anaplastic large cell lymphoma, T cell and Null cell type	Bronchiolar adenocarcinoma
Anaplastic oligoastrocytoma	Bronchiolar carcinoma
Androblastoma, malignant	Bronchiolo-alveolar adenocarcinoma, NOS
Angiocentric T-cell lymphoma [obs]	Bronchiolo-alveolar carcinoma, NOS
Angioendotheliomatosis	Bronchiolo-alveolar carcinoma, Clara cell
Angioimmunoblastic lymphoma [obs]	Bronchiolo-alveolar carcinoma, Clara cell and goblet cell type
Angioimmunoblastic T-cell lymphoma	Bronchiolo-alveolar carcinoma, goblet cell type
Angiomyosarcoma	Bronchiolo-alveolar carcinoma, indeterminate type
Angiosarcoma	Bronchiolo-alveolar carcinoma, mixed mucinous and non-mucinous
Angiotropic lymphoma	Bronchiolo-alveolar carcinoma, mucinous
Apocrine adenocarcinoma	Bronchiolo-alveolar carcinoma, non-mucinous
Argentaffinoma, malignant [obs]	Bronchiolo-alveolar carcinoma, type II pneumocyte
Arrhenoblastoma, malignant	
Askin tumor	
Astroblastoma	
Astrocytic glioma	
Astrocytoma, anaplastic	
Astrocytoma, low grade	
Astrocytoma, NOS	
Astrogloma [obs]	
Atypical carcinoid tumor	

Bronchiolo-alveolar carcinoma, type II pneumocyte and goblet cell type	Chromophobe cell renal carcinoma
Burkitt cell leukemia	Chronic eosinophilic leukemia
Burkitt-like lymphoma	Chronic erythremia [obs]
Burkitt lymphoma, NOS	Chronic granulocytic leukemia
Burkitt tumor [obs]	Chronic granulocytic leukemia, BCR/ABL
	Chronic granulocytic leukemia, Philadelphia chromosome (Ph1) positive
-C-	Chronic granulocytic leukemia, t(9;22)(q34;q11)
C cell carcinoma	Chronic idiopathic myelofibrosis
C-ALL	Chronic leukemia, NOS [obs]
Cancer	Chronic lymphatic leukemia
Carcinofibroma	Chronic lymphocytic leukemia
Carcinoid, NOS (except appendix)	Chronic lymphocytic leukemia, B-cell type (includes all variants of BCLL)
Carcinoid tumor, argentaffin, malignant	Chronic lymphoid leukemia
Carcinoid tumor, NOS (except appendix)	<u>Chronic lymphoproliferative disorder of NK-cells</u>
Carcinoma, anaplastic, NOS	Chronic monocytic leukemia [obs]
Carcinoma, diffuse type	Chronic myelocytic leukemia
Carcinoma in a polyp, NOS	Chronic myelogenous leukemia, BCR/ABL positive
Carcinoma in adenomatous polyp	Chronic myelogenous leukemia, Philadelphia chromosome (Ph1) positive
Carcinoma in pleomorphic adenoma	Chronic myelogenous leukemia, t(9;22)(q34;q11)
Carcinoma in situ in a polyp, NOS	Chronic myelogenous leukemia
Carcinoma in situ in adenomatous polyp	Chronic myeloid leukemia
Carcinoma in situ, NOS	Chronic myelomonocytic leukemia in transformation [obs]
Carcinoma, intestinal type	Chronic myelomonocytic leukemia, <u>NOS</u>
Carcinoma, NOS	Chronic myelomonocytic leukemia, Type I
Carcinoma showing thymus-like differentiation	Chronic myelomonocytic leukemia, Type 2
Carcinoma showing thymus-like element	<u>Chronic myeloproliferative disease, NOS</u>
Carcinoma simplex	<u>Chronic myeloproliferative disorder</u>
Carcinoma, undifferentiated, NOS	Chronic neutrophilic leukemia
Carcinoma with apocrine metaplasia	Circumscribed arachnoidal cerebellar sarcoma [obs]
Carcinoma with neuroendocrine differentiation	Classical Hodgkin lymphoma, lymphocyte depletion, diffuse fibrosis
Carcinoma with osteoclast-like giant cells	Classical Hodgkin lymphoma, lymphocyte depletion, NOS
Carcinoma with productive fibrosis	Classical Hodgkin lymphoma, lymphocyte depletion, reticular
Carcinosarcoma, embryonal	Classical Hodgkin lymphoma, lymphocyte-rich
Carcinosarcoma, NOS	Classical Hodgkin lymphoma, mixed cellularity, NOS
CASTLE	Classical Hodgkin lymphoma, nodular sclerosis, cellular phase
Cellular ependymoma	Classical Hodgkin lymphoma, nodular sclerosis, grade 1
Central neuroblastoma	Classical Hodgkin lymphoma, nodular sclerosis, grade 2
Central osteosarcoma	Classical Hodgkin lymphoma, nodular sclerosis, NOS
Central primitive neuroectodermal tumor, NOS	Clear cell adenocarcinofibroma
Cerebellar sarcoma, NOS [obs]	Clear cell adenocarcinoma, mesonephroid
Ceruminous adenocarcinoma	Clear cell adenocarcinoma, NOS
Ceruminous carcinoma	Clear cell carcinoma
Chloroma	Clear cell chondrosarcoma
Cholangiocarcinoma	Clear cell cystadenocarcinofibroma
Chondroblastic osteosarcoma	Clear cell ependymoma
Chondroblastoma, malignant	Clear cell sarcoma, NOS
Chondroid chordoma	Clear cell sarcoma of kidney
Chondrosarcoma, NOS	Clear cell sarcoma, of tendons and aponeuroses
Chordoma, NOS	Cloacogenic carcinoma
Choriocarcinoma combined with embryonal carcinoma	Collecting duct carcinoma
Choriocarcinoma combined with other germ cell elements	Colloid adenocarcinoma
Choriocarcinoma combined with teratoma	Colloid carcinoma
Choriocarcinoma, NOS	Combined carcinoid and adenocarcinoma
Chorioepithelioma	
Chorionepithelioma	
Choroid plexus carcinoma	
Choroid plexus papilloma, anaplastic	
Choroid plexus papilloma, malignant	
Chromophobe adenocarcinoma	
Chromophobe carcinoma	

Combined hepatocellular carcinoma and
 cholangiocarcinoma
 Combined small cell carcinoma
 Combined small cell-adenocarcinoma
 Combined small cell-large cell carcinoma
 Combined small cell-squamous cell carcinoma
 Comedocarcinoma, noninfiltrating
 Comedocarcinoma, NOS
 Common ALL
 Common precursor B ALL
 Composite carcinoid
 Composite Hodgkin and non-Hodgkin lymphoma
 Condylomatous carcinoma
 Congenital fibrosarcoma
 Conventional central osteosarcoma
 Cortical T ALL
 CPNET
 Cribriform carcinoma, NOS
 Cribriform carcinoma in situ
 Cutaneous lymphoma, NOS [obs]
 Cutaneous T-cell lymphoma, NOS
 Cylindrical cell carcinoma
 Cylindroma, NOS (except Cylindroma of skin M-8200/0)
 Cystadenocarcinoma, NOS
 Cyst-associated renal cell carcinoma
 Cystic astrocytoma [obs]
 Cystic hypersecretory carcinoma
 Cystosarcoma phyllodes, malignant

-D-

DCIS, comedo type
 DCIS, NOS
 DCIS, papillary
 Dedifferentiated chondrosarcoma
 Dedifferentiated chordoma
 Dedifferentiated liposarcoma
 Dendritic cell sarcoma, NOS
 Dermatofibrosarcoma, NOS
 Dermatofibrosarcoma protuberans, NOS
 Dermoid cyst with malignant transformation
 Dermoid cyst with secondary tumor
 Desmoplastic medulloblastoma
 Desmoplastic melanoma, amelanotic
 Desmoplastic melanoma, malignant
 Desmoplastic mesothelioma
 Desmoplastic nodular medulloblastoma
 Desmoplastic small round cell tumor
 Di Guglielmo disease [obs]
 Diffuse astrocytoma
 Diffuse astrocytoma, low grade
 Digital papillary adenocarcinoma
 Diktyoma, malignant
 DIN 3
 Duct adenocarcinoma, NOS
 Duct carcinoma, desmoplastic type
 Duct carcinoma, NOS
 Duct cell carcinoma
 Ductal carcinoma, NOS
 Ductal carcinoma in situ, comedo type
 Ductal carcinoma in situ, cribriform type
 Ductal carcinoma in situ, micropapillary
 Ductal carcinoma in situ, NOS

Ductal carcinoma in situ, papillary
 Ductal carcinoma in situ, solid type
 Ductal carcinoma, cribriform type
 Ductal intraepithelial neoplasia 3
 Dysgerminoma

-E-

EC cell carcinoid
 Eccrine adenocarcinoma
 Eccrine papillary adenocarcinoma
 Eccrine poroma, malignant
 ECL cell carcinoid, malignant
 Ectomesenchymoma
 Embryonal adenocarcinoma
 Embryonal carcinoma, infantile
 Embryonal carcinoma, NOS
 Embryonal carcinoma, polyembryonal type
 Embryonal hepatoma
 Embryonal rhabdomyosarcoma, NOS
 Embryonal rhabdomyosarcoma, pleomorphic
 Embryonal sarcoma
 Embryonal teratoma
 Endodermal sinus tumor
 Endolymphatic stromal myositis
 Endometrial sarcoma, NOS
 Endometrial stromal sarcoma, NOS
 Endometrial stromal sarcoma, high grade
 Endometrial stromal sarcoma, low grade
 Endometrial stromatosis
 Endometrioid adenocarcinoma, NOS
 Endometrioid adenocarcinoma, ciliated cell variant
 Endometrioid adenocarcinoma, secretory variant
 Endometrioid adenofibroma, malignant
 Endometrioid carcinoma, NOS
 Endometrioid cystadenocarcinoma
 Endometrioid cystadenofibroma, malignant
 Enterochromaffin cell carcinoid
 Enterochromaffin-like cell tumor, malignant
 Enteroglucagonoma, malignant
 Enteropathy associated T-cell lymphoma
 Enteropathy type intestinal T-cell lymphoma
 Eosinophil adenocarcinoma
 Eosinophil carcinoma
 Eosinophilic leukemia
 Ependymblastoma
 Ependymoma, anaplastic
 Ependymoma, NOS
 Epidermoid carcinoma in situ, NOS
 Epidermoid carcinoma in situ with questionable stromal
 invasion
 Epidermoid carcinoma, keratinizing
 Epidermoid carcinoma, large cell, nonkeratinizing
 Epidermoid carcinoma, NOS
 Epidermoid carcinoma, small cell, nonkeratinizing
 Epidermoid carcinoma, spindle cell
 Epithelial ependymoma
 Epithelial tumor, malignant
 Epithelial-myoeithelial carcinoma
 Epithelioid cell melanoma
 Epithelioid cell sarcoma
 Epithelioid hemangioendothelioma, malignant

Epithelioid leiomyosarcoma
 Epithelioid mesothelioma, malignant
 Epithelioid mesothelioma, NOS
 Epithelioid MPNST
 Epithelioid sarcoma
 Epithelioma, malignant
 Epithelioma, NOS
 Erythremic myelosis, NOS [obs]
 Erythroleukemia
 Essential hemorrhagic thrombocythemia
 Essential thrombocythemia
 Esthesioneuroblastoma
 Esthesioneurocytoma
 Esthesioneuroepithelioma
 Ewing sarcoma
 Ewing tumor
 Extra-adrenal paraganglioma, malignant
 Extramedullary plasmacytoma

-F-

FAB L1 [obs]
 FAB L2
 FAB L3 [obs]
 FAB M0
 FAB M1
 FAB M2, AML1(CBF-alpha)/ETO
 FAB M2, NOS
 FAB M2, t(8;21)(q22;q22)
 FAB M3 (includes all variants)
 FAB M4
 FAB M4Eo (replaced *ICD-O-2*'s FAB M4E in *ICD-O-3*)
 FAB M5 (includes all variants) (replaced *ICD-O-2*'s entries for FAB M5A and FAB M5B in *ICD-O-3*)
 FAB M6
 FAB M7
 Fascial fibrosarcoma
 Fetal adenocarcinoma
 Fibrillary astrocytoma
 Fibroblastic liposarcoma
 Fibroblastic osteosarcoma
Fibroblastic reticular cell tumor
 Fibrochondrosarcoma
 Fibroepithelial basal cell carcinoma, Pinkus type
 Fibroepithelioma of Pinkus type
 Fibroepithelioma, NOS
 Fibroliposarcoma
 Fibromyxosarcoma
 Fibrosarcoma, NOS
 Fibrous astrocytoma
 Fibrous histiocytoma, malignant
 Fibrous mesothelioma, malignant
 Fibrous mesothelioma, NOS
 Fibroxanthoma, malignant
 Follicular adenocarcinoma, moderately differentiated
 Follicular adenocarcinoma, NOS
 Follicular adenocarcinoma, trabecular
 Follicular adenocarcinoma, well differentiated
 Follicular carcinoma, encapsulated
 Follicular carcinoma, minimally invasive
 Follicular carcinoma, moderately differentiated
 Follicular carcinoma, NOS
 Follicular carcinoma, oxyphilic cell

Follicular carcinoma, trabecular
 Follicular carcinoma, well differentiated
 Follicular dendritic cell sarcoma
 Follicular dendritic cell tumor
 Franklin disease

-G-

G cell tumor, malignant
 Gamma heavy chain disease
 Ganglioglioma, anaplastic
 Ganglioneuroblastoma
 Gastrin cell tumor, malignant
 Gastrinoma, malignant
 Gastrointestinal stromal sarcoma
 Gastrointestinal stromal tumor, malignant
 Gelatinous adenocarcinoma [obs]
 Gelatinous carcinoma [obs]
 Gemistocytic astrocytoma
 Gemistocytoma
 Germ cell tumor, nonseminomatous
 Germ cell tumor, NOS
 Germinoma
 Giant cell and spindle cell carcinoma
 Giant cell carcinoma
 Giant cell glioblastoma
 Giant cell sarcoma
 Giant cell sarcoma of bone
 Giant cell tumor of bone, malignant
 Giant cell tumor of tendon sheath, malignant
 GIST, malignant
 Glandular intraepithelial neoplasia, grade III
 Glassy cell carcinoma
 Glioblastoma multiforme
 Glioblastoma, NOS
 Glioblastoma with sarcomatous component
 Glioma, malignant
 Glioma, NOS
 Gliomatosis cerebri
 Gliosarcoma
 Glomangiosarcoma
 Glomoid sarcoma
 Glomus tumor, malignant
 Glucagonoma, malignant
 Glycogen-rich carcinoma
 Goblet cell carcinoid
 Granular cell adenocarcinoma
 Granular cell carcinoma
 Granular cell myoblastoma, malignant
 Granular cell tumor, malignant
 Granulocytic leukemia, NOS
 Granulocytic sarcoma
 Granulosa cell carcinoma
 Granulosa cell tumor, malignant
 Granulosa cell tumor, sarcomatoid
 Grawitz tumor [obs]
 Guglielmo disease

-H-

Hairy cell leukemia
 Hairy cell leukemia variant
 Heavy chain disease, NOS

Hemangioendothelial sarcoma	Hurthle cell carcinoma
Hemangioendothelioma, malignant	Hutchinson melanotic freckle, NOS
Hemangiopericytoma, malignant	<u>Hydroa vacciniforme-like lymphoma</u>
Hemangiosarcoma	Hypereosinophilic syndrome
Hepatoblastoma	Hypernephroma [obs]
Hepatocarcinoma	
Hepatocellular carcinoma, clear cell type	-I-
Hepatocellular carcinoma, fibrolamellar	Idiopathic hemorrhagic thrombocythemia
Hepatocellular carcinoma, NOS	Idiopathic thrombocythemia
Hepatocellular carcinoma, pleomorphic type	Immature teratoma, malignant
Hepatocellular carcinoma, sarcomatoid	Immature teratoma, NOS
Hepatocellular carcinoma, scirrhous	Immunoblastic sarcoma [obs]
Hepatocellular carcinoma, spindle cell variant	Immunocytoma [obs]
Hepatocholangiocarcinoma	Immunoproliferative disease, NOS
Hepatoid adenocarcinoma	Immunoproliferative small intestinal disease
Hepatoid carcinoma	Infantile fibrosarcoma
Hepatoid yolk sac tumor	Infiltrating and papillary adenocarcinoma
Hepatoma, malignant	Infiltrating duct adenocarcinoma
Hepatoma, NOS	Infiltrating duct and colloid carcinoma
Hepatosplenic (gamma-delta) lymphoma	Infiltrating duct and cribriform carcinoma
Hidradenocarcinoma	Infiltrating duct and lobular carcinoma
High grade surface osteosarcoma	Infiltrating duct and lobular carcinoma in situ
Histiocyte-rich large B-cell lymphoma	Infiltrating duct and mucinous carcinoma
Histiocytic medullary reticulosis [obs]	Infiltrating duct and tubular carcinoma
Histiocytic sarcoma	Infiltrating duct carcinoma, NOS
Hodgkin disease, lymphocyte depletion, diffuse fibrosis	Infiltrating duct mixed with other types of carcinoma
Hodgkin disease, lymphocyte depletion, NOS	Infiltrating ductular carcinoma
Hodgkin disease, lymphocyte depletion, reticular	Infiltrating lobular carcinoma
Hodgkin disease, lymphocyte predominance, diffuse	Infiltrating lobular carcinoma and ductal carcinoma in situ
[obs]	Infiltrating lobular mixed with other types of carcinoma
Hodgkin disease, lymphocyte predominance, nodular	Infiltrating papillary adenocarcinoma
Hodgkin disease, lymphocyte predominance, NOS [obs]	Inflammatory adenocarcinoma
Hodgkin disease, lymphocytic-histiocytic predominance	Inflammatory carcinoma
[obs]	Inflammatory liposarcoma
Hodgkin disease, mixed cellularity, NOS	Insular carcinoma
Hodgkin disease, nodular sclerosis, cellular phase	Insulinoma, malignant
Hodgkin disease, nodular sclerosis, lymphocyte	Interdigitating cell sarcoma
depletion	Interdigitating dendritic cell sarcoma
Hodgkin disease, nodular sclerosis, lymphocyte	Interstitial cell tumor, malignant
predominance	Intestinal T-cell lymphoma
Hodgkin disease, nodular sclerosis, mixed cellularity	Intracortical osteosarcoma
Hodgkin disease, nodular sclerosis, NOS	Intracystic carcinoma, NOS
Hodgkin disease, nodular sclerosis, syncytial variant	Intracystic papillary adenocarcinoma
Hodgkin disease, NOS	Intraductal adenocarcinoma, noninfiltrating, NOS
Hodgkin granuloma [obs]	Intraductal and lobular carcinoma
Hodgkin lymphoma, lymphocyte depletion, diffuse	Intraductal carcinoma and lobular carcinoma in situ
fibrosis	Intraductal carcinoma, clinging
Hodgkin lymphoma, lymphocyte depletion, NOS	Intraductal carcinoma, noninfiltrating, NOS
Hodgkin lymphoma, lymphocyte depletion, reticular	Intraductal carcinoma, NOS
Hodgkin lymphoma, lymphocyte predominance, nodular	Intraductal carcinoma, solid type
Hodgkin lymphoma, lymphocyte-rich	Intraductal micropapillary carcinoma
Hodgkin lymphoma, mixed cellularity, NOS	Intraductal papillary adenocarcinoma, NOS
Hodgkin lymphoma, nodular lymphocyte predominance	Intraductal papillary adenocarcinoma with invasion
Hodgkin lymphoma, nodular sclerosis, cellular phase	Intraductal papillary carcinoma, NOS
Hodgkin lymphoma, nodular sclerosis, grade 1	Intraductal papillary-mucinous carcinoma, invasive
Hodgkin lymphoma, nodular sclerosis, grade 2	Intraductal papillary-mucinous carcinoma, non-invasive
Hodgkin lymphoma, nodular sclerosis, NOS	Intraepidermal carcinoma, NOS
Hodgkin lymphoma, NOS	Intraepithelial carcinoma, NOS
Hodgkin paragranuloma, nodular [obs]	Intraepithelial neoplasia, grade III, of vulva or vagina
Hodgkin paragranuloma, NOS [obs]	Intraepithelial squamous cell carcinoma
Hodgkin sarcoma [obs]	Intraosseous carcinoma
Hurthle cell adenocarcinoma	Intraosseous low grade osteosarcoma

Intraosseous well differentiated osteosarcoma
 Intratubular germ cell neoplasia
 Intratubular malignant germ cells
 Intravascular B-cell lymphoma
 Intravascular bronchial alveolar tumor [obs]
 Intravascular large B-cell lymphoma
 Islet cell adenocarcinoma
 Islet cell carcinoma

-J-

Juvenile astrocytoma (reportable as behavior 3 in North America)
 Juvenile carcinoma of breast
 Juvenile chronic myelomonocytic leukemia
 Juvenile myelomonocytic leukemia
 Juxtacortical chondrosarcoma
 Juxtacortical osteogenic sarcoma [obs] (see Juxtacortical osteosarcoma)
 Juxtacortical osteosarcoma

-K-

Kaposi sarcoma
 Klatskin tumor
 Krukenberg tumor (/6)
 Kupffer cell sarcoma

-L-

Langerhans cell histiocytosis, disseminated
 Langerhans cell histiocytosis, generalized
Langerhans cell histiocytosis, multifocal
Langerhans cell histiocytosis, NOS
Langerhans cell histiocytosis, unifocal
 Langerhans cell sarcoma
Large B-cell lymphoma arising in HHV8-associated multicentric Castleman disease
 Large cell (Ki-1+) lymphoma [obs]
 Large cell carcinoma, NOS
 Large cell carcinoma with rhabdoid phenotype
 Large cell medulloblastoma
 Large cell neuroendocrine carcinoma
 LCIS, NOS
 Leiomyosarcoma, NOS
 Lennert lymphoma
 Lentigo maligna
 Lentigo maligna melanoma
 Leptomeningeal sarcoma
 Letterer-Siwe disease
 Leukemia, NOS
 Leukemic reticuloendotheliosis
 Leydig cell tumor, malignant
 Linitis plastica
 Lipid-rich carcinoma
 Lipoma-like liposarcoma
 Liposarcoma, differentiated
 Liposarcoma, NOS
 Liposarcoma, well differentiated
 Liver cell carcinoma
 Lobular adenocarcinoma
 Lobular and ductal carcinoma
 Lobular carcinoma in situ, NOS

Lobular carcinoma, noninfiltrating
 Lobular carcinoma, NOS
 Lymphangioendothelioma, malignant
 Lymphangioendothelial sarcoma
 Lymphangiosarcoma
 Lymphatic leukemia, NOS [obs]
 Lymphoblastic leukemia, L1 type
 Lymphoblastic leukemia, L2 type
 Lymphoblastic leukemia, NOS
 Lymphoblastoma [obs]
 Lymphocytic leukemia, NOS [obs]
 Lymphoepithelial carcinoma
 Lymphoepithelioid lymphoma
 Lymphoepithelioma
 Lymphoepithelioma-like carcinoma
 Lymphoid leukemia, NOS
 Lymphoma, NOS
 Lymphomatoid papulosis
 Lymphosarcoma cell leukemia [obs]
 Lymphosarcoma, diffuse [obs]
 Lymphosarcoma, NOS [obs]

-M-

M6A
 M6B
 Malignancy
 Malignant chondroid syringoma
 Malignant cystic nephroma
 Malignant eccrine spiradenoma
 Malignant fibrous histiocytoma
 Malignant giant cell tumor of soft parts
 Malignant histiocytosis
 Malignant lymphoma, centroblastic, diffuse
 Malignant lymphoma, centroblastic, follicular
 Malignant lymphoma, centroblastic, NOS
 Malignant lymphoma, centroblastic-centrocytic, diffuse [obs]
 Malignant lymphoma, centroblastic-centrocytic, follicular [obs]
 Malignant lymphoma, centroblastic-centrocytic NOS [obs]
 Malignant lymphoma, centrocytic [obs]
 Malignant lymphoma, cleaved cell, NOS [obs]
 Malignant lymphoma, convoluted cell [obs]
 Malignant lymphoma, diffuse, NOS
 Malignant lymphoma, follicle center, follicular
 Malignant lymphoma, follicle center, NOS
 Malignant lymphoma, follicular, grade 1
 Malignant lymphoma, follicular, grade 2
 Malignant lymphoma, follicular, grade 3
 Malignant lymphoma, follicular, NOS
 Malignant lymphoma, histiocytic, diffuse
 Malignant lymphoma, histiocytic, nodular [obs]
 Malignant lymphoma, histiocytic, NOS [obs]
 Malignant lymphoma, Hodgkin
 Malignant lymphoma, immunoblastic, NOS
 Malignant lymphoma, large B-cell, diffuse, centroblastic, NOS
 Malignant lymphoma, large B-cell, diffuse, immunoblastic, NOS
 Malignant lymphoma, large B-cell, diffuse, NOS
 Malignant lymphoma, large B-cell, NOS

Malignant lymphoma, large cell, cleaved and noncleaved [obs]	Malignant lymphoma, small lymphocytic, NOS
Malignant lymphoma, large cell, cleaved, diffuse	Malignant lymphoma, small noncleaved, Burkitt type [obs]
Malignant lymphoma, large cell, cleaved, NOS [obs]	Malignant lymphoma, undifferentiated, Burkitt type [obs]
Malignant lymphoma, large cell, diffuse, NOS [obs]	Malignant lymphoma, undifferentiated cell, non-Burkitt [obs]
Malignant lymphoma, large cell, follicular, NOS	Malignant lymphoma, undifferentiated cell type, NOS [obs]
Malignant lymphoma, large cell, immunoblastic	Malignant lymphomatous polyposis [obs]
Malignant lymphoma, large cell, noncleaved, diffuse, NOS [obs]	Malignant mast cell tumor
Malignant lymphoma, large cell, noncleaved, NOS	Malignant mastocytoma
Malignant lymphoma, large cell, noncleaved, follicular [obs]	Malignant mastocytosis
Malignant lymphoma, large cell, noncleaved, NOS	Malignant melanoma in congenital melanocytic nevus
Malignant lymphoma, large cell, NOS	Malignant melanoma in giant pigmented nevus
Malignant lymphoma, large cleaved cell, follicular [obs]	Malignant melanoma in Hutchinson melanotic freckle
Malignant lymphoma, large cleaved cell, NOS [obs]	Malignant melanoma in junctional nevus
Malignant lymphoma, lymphoblastic, NOS	Malignant melanoma in precancerous melanosis
Malignant lymphoma, lymphocytic, diffuse, NOS	Malignant melanoma, NOS
Malignant lymphoma, lymphocytic, intermediate differentiation, diffuse [obs]	Malignant melanoma, regressing
Malignant lymphoma, lymphocytic, intermediate differentiation, nodular [obs]	Malignant midline reticulosis [obs]
Malignant lymphoma, lymphocytic, nodular, NOS [obs]	Malignant mucinous adenofibroma
Malignant lymphoma, lymphocytic, NOS	Malignant mucinous cystadenofibroma
Malignant lymphoma, lymphocytic, poorly differentiated, diffuse [obs]	Malignant multilocular cystic nephroma
Malignant lymphoma, lymphocytic, poorly differentiated, nodular [obs]	Malignant myelosclerosis [obs]
Malignant lymphoma, lymphocytic, well differentiated, diffuse	Malignant myoepithelioma
Malignant lymphoma, lymphocytic, well differentiated, nodular [obs]	Malignant peripheral nerve sheath tumor
Malignant lymphoma, lymphoplasmacytic	Malignant peripheral nerve sheath tumor with rhabdomyoblastic differentiation
Malignant lymphoma, lymphoplasmacytoid	Malignant reticulosis, NOS [obs]
Malignant lymphoma, mixed cell type, diffuse [obs]	Malignant rhabdoid tumor
Malignant lymphoma, mixed cell type, follicular [obs]	Malignant Schwannoma, NOS [obs]
Malignant lymphoma, mixed cell type, nodular [obs]	Malignant Schwannoma with rhabdomyoblastic differentiation
Malignant lymphoma, mixed lymphocytic-histiocytic, diffuse [obs]	Malignant serous adenofibroma
Malignant lymphoma, mixed lymphocytic-histiocytic, nodular [obs]	Malignant serous cystadenofibroma
Malignant lymphoma, mixed small and large cell, diffuse [obs]	Malignant tenosynovial giant cell tumor
Malignant lymphoma, mixed small cleaved and large cell, follicular [obs]	Malignant teratoma, anaplastic
Malignant lymphoma, nodular, NOS [obs]	Malignant teratoma, intermediate
Malignant lymphoma, non-Hodgkin, NOS	Malignant teratoma, trophoblastic
Malignant lymphoma, non-cleaved, diffuse, NOS [obs]	Malignant teratoma, undifferentiated
Malignant lymphoma, non-cleaved, follicular, NOS [obs]	Malignant tumor, clear cell type
Malignant lymphoma, non-cleaved, NOS	Malignant tumor, fusiform cell type
Malignant lymphoma, non-cleaved cell, NOS	Malignant tumor, giant cell type
Malignant lymphoma, NOS	Malignant tumor, small cell type
Malignant lymphoma, plasmacytoid [obs]	Malignant tumor, spindle cell type
Malignant lymphoma, small B lymphocytic, NOS	MALT lymphoma
Malignant lymphoma, small cell diffuse	Mantle cell lymphoma
Malignant lymphoma, small cell, noncleaved, diffuse [obs]	Mantle zone lymphoma [obs]
Malignant lymphoma, small cell, NOS	Marginal zone B-cell lymphoma, NOS
Malignant lymphoma, small cleaved cell, diffuse [obs]	Marginal zone lymphoma, NOS
Malignant lymphoma, small cleaved cell, follicular [obs]	Mast cell leukemia
Malignant lymphoma, small cleaved cell, NOS [obs]	Mast cell sarcoma
Malignant lymphoma, small lymphocytic, diffuse	Mature T ALL
	Mature T-cell lymphoma, NOS
	Mediastinal large B-cell lymphoma
	Mediterranean lymphoma
	Medullary adenocarcinoma
	Medullary carcinoma, NOS
	Medullary carcinoma with amyloid stroma
	Medullary carcinoma with lymphoid stroma
	Medullary osteosarcoma
	Medulloblastoma, NOS

Medulloepithelioma, NOS	Mixed small cell carcinoma
Medullomyoblastoma	Mixed teratoma and seminoma
Megakaryoblastic leukemia, NOS	Mixed tumor, malignant, NOS
Megakaryocytic leukemia	Mixed tumor, salivary gland type, malignant
<u>Megakaryocytic myelosclerosis</u>	Mixed type rhabdomyosarcoma
Melanoma in situ	Monoblastic leukemia, NOS
Melanoma, malignant, of soft parts	Monocytic leukemia, NOS
Melanoma, NOS	Monocytoid B-cell lymphoma
Melanotic medulloblastoma	Monstrocellular sarcoma [obs]
Melanotic MPNST	MPNST with glandular differentiation
Melanotic psammomatous MPNST	MPNST with mesenchymal differentiation
Meningeal melanomatosis	MPNST with rhabdomyoblastic differentiation
Meningeal sarcoma	MPNST, NOS
Meningeal sarcomatosis	Mu heavy chain disease
Meningioma, anaplastic	Mucin-producing adenocarcinoma
Meningioma, malignant	Mucin-producing carcinoma
Meningothelial sarcoma	Mucin-secreting adenocarcinoma
Merkel cell carcinoma	Mucin-secreting carcinoma
Merkel cell tumor	Mucinous adenocarcinofibroma
Mesenchymal chondrosarcoma	Mucinous adenocarcinoma
Mesenchymal tumor, malignant	Mucinous adenocarcinoma, endocervical type
Mesenchymoma, malignant	Mucinous carcinoid
Mesodermal mixed tumor	Mucinous carcinoma
Mesonephric adenocarcinoma	Mucinous cystadenocarcinofibroma
Mesonephroma, malignant	Mucinous cystadenocarcinoma, non-invasive
Mesonephroma, NOS	Mucinous cystadenocarcinoma, NOS
Mesothelioma, biphasic, malignant	Mucinous cystadenoma, borderline malignancy
Mesothelioma, biphasic, NOS	Mucinous cystic tumor of borderline malignancy
Mesothelioma, malignant	Mucinous tumor, NOS, of low malignant potential
Mesothelioma, NOS	Mucocarcinoid tumor
Metaplastic carcinoma, NOS	Mucoepidermoid carcinoma
Microcystic adnexal carcinoma	Mucoid adenocarcinoma
Microglioma [obs]	Mucoid carcinoma
Micropapillary serous carcinoma	Mucoid cell adenocarcinoma
Mixed acidophil-basophil carcinoma	Mucosal-associated lymphoid tissue (MALT) lymphoma
Mixed acinar-endocrine carcinoma	Mucosal lentiginous melanoma
Mixed adenocarcinoma and epidermoid carcinoma	Mucous adenocarcinoma
Mixed adenocarcinoma and squamous cell carcinoma	Mucous carcinoma
Mixed carcinoid-adenocarcinoma	Mullerian mixed tumor
Mixed cell adenocarcinoma	Multiple hemorrhagic sarcoma
Mixed ductal-endocrine carcinoma	Multiple myeloma
Mixed embryonal carcinoma and teratoma	Mycosis fungoides
Mixed embryonal rhabdomyosarcoma and alveolar rhabdomyosarcoma	Myelocytic leukemia, NOS
Mixed epithelioid and spindle cell melanoma	<u>Myelodysplastic/Myeloproliferative neoplasm, unclassifiable</u>
Mixed germ cell tumor	<u>Myelodysplastic syndrome, NOS</u>
Mixed glioma	Myelodysplastic syndrome with 5q deletion (5q-) syndrome
Mixed hepatocellular and bile duct carcinoma	Myelofibrosis as a result of myeloproliferative disease
Mixed islet cell and exocrine adenocarcinoma	<u>Myelofibrosis with myeloid metaplasia</u>
Mixed liposarcoma	Myelogenous leukemia, NOS
Mixed medullary-follicular carcinoma	<u>Myeloid and lymphoid neoplasm with FGFR1 abnormalities</u>
Mixed medullary-papillary carcinoma	<u>Myeloid and lymphoid neoplasms with PDGFRA rearrangement</u>
Mixed mesenchymal sarcoma	<u>Myeloid leukemia associated with Down Syndrome</u>
Mixed oligoastrocytoma (see Oligoastrocytoma)	Myeloid leukemia, NOS
<u>Mixed phenotype acute leukemia, B/myeloid, NOS</u>	<u>Myeloid neoplasms with PDGFRB rearrangement</u>
<u>Mixed phenotype acute leukemia, T/myeloid, NOS</u>	Myeloid sarcoma
<u>Mixed phenotype acute leukemia with t(9;22)(q34;q11.2); BCR-ABL1</u>	Myeloma, NOS
<u>Mixed phenotype acute leukemia with t(v;11q23); MLL rearranged</u>	Myelomatosis
Mixed pineal tumor	Myelomonocytic leukemia, NOS
Mixed pineocytoma-pineoblastoma	

Myeloproliferative neoplasm, unclassifiable

Myelosclerosis with myeloid metaplasia

Myoepithelial carcinoma

Myosarcoma

Myxoid chondrosarcoma

Myxoid leiomyosarcoma

Myxoid liposarcoma

Myxoliposarcoma

Myxosarcoma

-N-

Neoplasm, malignant

Nephroblastoma, NOS

Nephroma, NOS

Neurilemmoma, malignant [obs]

Neurilemmosarcoma [obs]

Neuroblastoma, NOS

Neuroectodermal tumor, NOS

Neuroendocrine carcinoma, NOS

Neuroepithelioma, NOS

Neurofibrosarcoma [obs]

Neurogenic sarcoma [obs]

Neurosarcoma [obs]

Neurotropic melanoma, malignant

NK/T-cell lymphoma, nasal and nasal-type

Nodal marginal zone lymphoma

Nodular hidradenoma, malignant

Nodular melanoma

Non-Hodgkin lymphoma, NOS

Nonchromaffin paraganglioma, malignant

Nonencapsulated sclerosing adenocarcinoma

Nonencapsulated sclerosing carcinoma

Nonencapsulated sclerosing tumor

Noninfiltrating intracystic carcinoma

Noninfiltrating intraductal papillary adenocarcinoma

Noninfiltrating intraductal papillary carcinoma

Nonlipid reticuloendotheliosis [obs]

Non-lymphocytic leukemia, NOS

Non-small cell carcinoma

-O-

Oat cell carcinoma

Odontogenic carcinoma

Odontogenic carcinosarcoma

Odontogenic fibrosarcoma

Odontogenic sarcoma

Odontogenic tumor, malignant

Olfactory neuroblastoma

Olfactory neuroepithelioma

Olfactory neurogenic tumor

Olfactory neurocytoma

Oligoastrocytoma

Oligodendroblastoma [obs]

Oligodendroglioma, anaplastic

Oligodendroglioma, NOS

Oncocytic adenocarcinoma

Oncocytic carcinoma

Orchioblastoma

Osteoblastic sarcoma

Osteochondrosarcoma

Osteoclastoma, malignant

Osteofibrosarcoma

Osteogenic sarcoma, NOS

Osteosarcoma in Paget disease of bone

Osteosarcoma, NOS

Oxyphilic adenocarcinoma

-P-

Paget disease and infiltrating duct carcinoma of breast

Paget disease and intraductal carcinoma of breast

Paget disease, extramammary

Paget disease, mammary

Paget disease of breast

Pagetoid reticulosis

Pancreatoblastoma

Papillary adenocarcinoma, follicular variant

Papillary adenocarcinoma, NOS

Papillary and follicular adenocarcinoma

Papillary and follicular carcinoma

Papillary carcinoma, columnar cell

Papillary carcinoma, diffuse sclerosing

Papillary carcinoma, encapsulated

Papillary carcinoma, follicular variant

Papillary carcinoma in situ

Papillary carcinoma, NOS

Papillary carcinoma of thyroid

Papillary carcinoma, oxyphilic cell

Papillary carcinoma, tall cell

Papillary cystadenocarcinoma, NOS

~~Papillary cystadenoma, borderline malignancy~~

~~Papillary ependymoma~~

Papillary epidermoid carcinoma

~~Papillary meningioma~~

Papillary microcarcinoma

Papillary mucinous cystadenocarcinoma

~~Papillary mucinous cystadenoma, borderline malignancy~~

~~Papillary mucinous tumor of low malignant potential~~

Papillary pseudomucinous cystadenocarcinoma

~~Papillary pseudomucinous cystadenoma, borderline malignancy~~

Papillary renal cell carcinoma

Papillary serous adenocarcinoma

Papillary serous cystadenocarcinoma

~~Papillary serous cystadenoma, borderline malignancy~~

~~Papillary serous tumor of low malignant potential~~

Papillary squamous cell carcinoma

Papillary squamous cell carcinoma in situ

Papillary squamous cell carcinoma, non-invasive

Papillary transitional cell carcinoma

Papillary transitional cell carcinoma, non-invasive

Papillary urothelial carcinoma

Papillary urothelial carcinoma, non-invasive

Papilocystic adenocarcinoma

Papillotubular adenocarcinoma

Parafollicular cell carcinoma

Paraganglioma, malignant

Parietal cell adenocarcinoma

Parietal cell carcinoma

Parosteal osteosarcoma

Perineural MPNST

Perineurioma, malignant

Periosteal chondrosarcoma

Periosteal fibrosarcoma

Periosteal osteogenic sarcoma (see Periosteal osteosarcoma)	Precursor T-cell lymphoblastic lymphoma
Periosteal osteosarcoma	Preleukemia [obs]
Periosteal sarcoma, NOS	Preleukemic syndrome [obs]
Peripheral neuroectodermal tumor	Pre-pre-B ALL
Peripheral primitive neuroectodermal tumor, NOS	Pre-T ALL
Peripheral T-cell lymphoma, AILD (Angioimmunoblastic Lymphadenopathy with Dysproteinemia) [obs]	Primary cutaneous anaplastic large cell lymphoma
Peripheral T-cell lymphoma, large cell	Primary cutaneous CD30+ large T-cell lymphoma
Peripheral T-cell lymphoma, pleomorphic medium and large cell	Primary cutaneous CD30+ T-cell lymphoproliferative disorder
Peripheral T-cell lymphoma, NOS	<u>Primary cutaneous follicle centre lymphoma</u>
Peripheral T-cell lymphoma, pleomorphic small cell	<u>Primary cutaneous gamma-delta T-cell lymphoma</u>
Pheochromoblastoma	Primary cutaneous neuroendocrine carcinoma
Pheochromocytoma, malignant	Primary effusion lymphoma
Phyllodes tumor, malignant	Primary intraosseous carcinoma
Pigmented dermatofibrosarcoma protuberans	Primary serous papillary carcinoma of peritoneum
Pilocytic astrocytoma (reportable as behavior 3 in North America)	Primitive neuroectodermal tumor, NOS
Piloid astrocytoma (reportable as behavior 3 in North America)	Primitive polar spongioblastoma [obs]
Pineal parenchymal tumor of intermediate differentiation	Pro-B ALL
Pineoblastoma	Proliferative polycythemia
Pinkus tumor	Prolymphocytic leukemia, B-cell type
Pituitary carcinoma, NOS	Prolymphocytic leukemia, NOS
Plasma cell leukemia	Prolymphocytic leukemia, T-cell type
Plasma cell myeloma	Pro-T ALL
Plasma cell tumor	Protoplasmic astrocytoma
Plasmablastic lymphoma	Pseudoglandular squamous cell carcinoma
Plasmacytic leukemia	Pseudomucinous adenocarcinoma
Plasmacytic lymphoma [obs]	Pseudomucinous cystadenocarcinoma, NOS
Plasmacytoma, extramedullary (not occurring in bone)	Pseudomucinous cystadenoma, borderline malignancy
Plasmacytoma, NOS	Pseudomyxoma peritonei with unknown primary site
Plasmacytoma of bone	Pseudosarcomatous carcinoma
Pleomorphic carcinoma	Pulmonary blastoma
Pleomorphic cell sarcoma	
Pleomorphic liposarcoma	-Q-
Pleomorphic rhabdomyosarcoma, NOS	Queyrat erythroplasia
Pleomorphic rhabdomyosarcoma, adult type	
Pleomorphic xanthoastrocytoma	-R-
Pleuropulmonary blastoma	RAEB
PNET, NOS	RAEB I
Pneumoblastoma	RAEB II
Polar spongioblastoma	RAEB-T
Polycythemia rubra vera	RARS
Polycythemia vera	Refractory anemia, NOS
Polyembryoma	Refractory anemia with excess blasts
Polygonal cell carcinoma	Refractory anemia with excess blasts in transformation [obs]
Polymorphic PTLD	Refractory anemia with ringed sideroblasts
Polymorphic reticulosis [obs]	Refractory anemia with sideroblasts
Polymorphous low grade adenocarcinoma	Refractory anemia without sideroblasts
Polyvesicular vitelline tumor	Refractory cytopenia with multilineage dysplasia
Porocarcinoma	Refractory neutropenia
PPNET	<u>Refractory thrombocytopenia</u>
Pre-B ALL	Renal carcinoma, collecting duct type
Precancerous melanosis, NOS	Renal cell adenocarcinoma
Precursor B-cell lymphoblastic leukemia	Renal cell carcinoma, NOS
Precursor B-cell lymphoblastic lymphoma	Renal cell carcinoma, chromophobe cell
Precursor cell lymphoblastic leukemia, NOS	Renal cell carcinoma, chromophobe type
Precursor cell lymphoblastic leukemia, not phenotyped	Renal cell carcinoma, sarcomatoid
Precursor cell lymphoblastic lymphoma, NOS	Renal cell carcinoma, spindle cell
Precursor T-cell lymphoblastic leukemia	Reserve cell carcinoma
	Reticulosarcoma, diffuse [obs]
	Reticulosarcoma, NOS [obs]

Reticulum cell sarcoma, diffuse [obs]	Small cell sarcoma
Reticulum cell sarcoma, NOS [obs]	Small cell-large cell carcinoma
Retinoblastoma, differentiated	Small cell neuroendocrine carcinoma
Retinoblastoma, diffuse	Soft tissue sarcoma
Retinoblastoma, NOS	Soft tissue tumor, malignant
Retinoblastoma, undifferentiated	Solid adenocarcinoma with mucin formation
Rhabdoid meningioma	Solid carcinoma, NOS
Rhabdoid sarcoma	Solid carcinoma with mucin formation
Rhabdoid tumor, NOS	Solid pseudopapillary carcinoma
Rhabdomyosarcoma, NOS	Solitary fibrous tumor, malignant
Rhabdomyosarcoma with ganglionic differentiation	Solitary myeloma
Rhabdosarcoma	Solitary plasmacytoma
Round cell carcinoma	Somatostatin cell tumor, malignant
Round cell liposarcoma	Somatostatinoma, malignant
Round cell osteosarcoma	Spermatocytic seminoma
Round cell sarcoma	Spermatocytoma
-S-	Spindle cell carcinoma
SALT lymphoma	Spindle cell melanoma, NOS
Sarcoma botryoides	Spindle cell melanoma, type A
Sarcoma, NOS	Spindle cell melanoma, type B
Sarcomatoid carcinoma	Spindle cell rhabdomyosarcoma
Sarcomatoid mesothelioma	Spindle cell sarcoma
Schminke tumor	Spindle epithelial tumor with thymus-like differentiation
Schneiderian carcinoma	Spindle epithelial tumor with thymus-like element
Scirrhous adenocarcinoma	Spindled mesothelioma
Scirrhous carcinoma	Splenic lymphoma with villous lymphocytes
Sclerosing liposarcoma	Splenic marginal zone B-cell lymphoma
Sclerosing hepatic carcinoma	Splenic marginal zone lymphoma, NOS
Sclerosing sweat duct carcinoma	Spongioblastoma multiforme
Sebaceous adenocarcinoma	Spongioblastoma, NOS [obs]
Sebaceous carcinoma	Spongioblastoma polare
Secretory carcinoma of breast	Spongioneuroblastoma
Seminoma, anaplastic	Squamous carcinoma
Seminoma, NOS	Squamous cell carcinoma, acantholytic
Seminoma with high mitotic index	Squamous cell carcinoma, adenoid
Serotonin producing carcinoid	Squamous cell carcinoma, clear cell type
Serous adenocarcinofibroma	Squamous cell carcinoma in situ, NOS
Serous adenocarcinoma, NOS	Squamous cell carcinoma in situ with questionable stromal invasion
Serous carcinoma, NOS	Squamous cell carcinoma, keratinizing, NOS
Serous cystadenocarcinofibroma	Squamous cell carcinoma, large cell, keratinizing
Serous cystadenocarcinoma, NOS	Squamous cell carcinoma, large cell, nonkeratinizing, NOS
Serous cystadenoma, borderline malignancy	Squamous cell carcinoma, microinvasive
Serous papillary cystic tumor of borderline malignancy	Squamous cell carcinoma, nonkeratinizing, NOS
Serous surface papillary carcinoma	Squamous cell carcinoma, NOS
Serous tumor, NOS, of low malignant potential	Squamous cell carcinoma, pseudoglandular
Sertoli cell carcinoma	Squamous cell carcinoma, sarcomatoid
Sertoli-Leydig cell tumor, poorly differentiated	Squamous cell carcinoma, small cell, nonkeratinizing
Sertoli-Leydig cell tumor, poorly differentiated, with heterologous elements	Squamous cell carcinoma, spindle cell
Sertoli-Leydig cell tumor, sarcomatoid	Squamous cell carcinoma with horn formation
SETTLE	Squamous cell epithelioma
Sezary disease	Squamous intraepithelial neoplasia, grade III
Sezary syndrome	Stem cell leukemia
Signet ring cell adenocarcinoma	Steroid cell tumor, malignant
Signet ring cell carcinoma	Stromal endometriosis
Skin appendage carcinoma	Stromal myositis, NOS
Skin-associated lymphoid tissue lymphoma	Stromal sarcoma, NOS
Small cell carcinoma, fusiform cell	Struma ovarii, malignant
Small cell carcinoma, intermediate cell	Subacute granulocytic leukemia [obs]
Small cell carcinoma, NOS	Subacute leukemia, NOS [obs]
Small cell osteosarcoma	Subacute lymphatic leukemia [obs]

Subacute lymphocytic leukemia [obs]
 Subacute lymphoid leukemia [obs]
 Subacute monocytic leukemia [obs]
 Subacute myelogenous leukemia [obs]
 Subacute myeloid leukemia [obs]
 Subcutaneous panniculitic, T-cell lymphoma (See
 subcutaneous panniculitis-like T-cell lymphoma)
 Subcutaneous panniculitis-like T-cell lymphoma
 Superficial spreading adenocarcinoma
 Superficial spreading melanoma
 Supratentorial PNET
 Sweat gland adenocarcinoma
 Sweat gland carcinoma
 Sweat gland tumor, malignant
 Sympathicoblastoma
 Synovial sarcoma, biphasic
 Synovial sarcoma, epithelioid cell
 Synovial sarcoma, monophasic fibrous
 Synovial sarcoma, NOS
 Synovial sarcoma, spindle cell
 Synovioma, malignant
 Synovioma, NOS
 Syringomatous carcinoma
Systemic EBV positive T-cell lymphoproliferative disease
 of childhood
 Systemic tissue mast cell disease

-T-

T lymphoblastic leukemia/lymphoma
 T/NK-cell lymphoma
 Tanycytic ependymoma
T-cell/histiocyte rich large B-cell lymphoma
T-cell large granular lymphocytic leukemia
 T-cell lymphoma, NOS
 T-cell rich B-cell lymphoma
 T-cell rich large B-cell lymphoma
 T-cell rich/histiocyte-rich large B-cell lymphoma
 T-zone lymphoma
 Telangiectatic osteosarcoma
 Teratoblastoma, malignant
 Teratocarcinoma
 Teratoid medulloepithelioma
 Teratoma, malignant, NOS
 Teratoma with malignant transformation
 Terminal duct adenocarcinoma
 Thecoma, malignant
 Therapy-related acute myeloid leukemia and
 myelodysplastic syndrome, NOS
 Therapy-related acute myeloid leukemia, alkylating
 agent related
 Therapy-related acute myeloid leukemia,
 epidodophyllotoxin-related
 Therapy-related acute myeloid leukemia, NOS
 Therapy-related myelodysplastic syndrome, alkylating
 agent related
 Therapy-related myelodysplastic syndrome,
 epidodophyllotoxin-related
 Therapy-related myelodysplastic syndrome, NOS
 Thymic carcinoma, NOS
 Thymic large B-cell lymphoma
 Thymoma, atypical, malignant
 Thymoma, cortical, malignant

Thymoma, epithelial, malignant
 Thymoma, lymphocyte-rich, malignant
 Thymoma, lymphocytic, malignant
 Thymoma, malignant
 Thymoma, medullary, malignant
 Thymoma, mixed type, malignant
 Thymoma, organoid, malignant
 Thymoma, predominantly cortical, malignant
 Thymoma, spindle cell, malignant
 Thymoma, type A, malignant
 Thymoma, type AB, malignant
 Thymoma, type B1, malignant
 Thymoma, type B2, malignant
 Thymoma, type B3, malignant
 Thymoma, type C
 Tibial adamantinoma
 Trabecular adenocarcinoma
 Trabecular carcinoma
 Transitional carcinoma
 Transitional cell carcinoma in situ
 Transitional cell carcinoma, micropapillary
 Transitional cell carcinoma, NOS
 Transitional cell carcinoma, sarcomatoid
 Transitional cell carcinoma, spindle cell
 Transitional pineal tumor
 Triton tumor, malignant
 Trophoblastic tumor, epithelioid
 True histiocytic lymphoma [obs]
 Tubular adenocarcinoma
 Tubular carcinoma
 Tubulopapillary adenocarcinoma
 Tumors cells, malignant
 Tumor, malignant, NOS
 Typical carcinoid
 T-zone lymphoma

-U-

Unclassified tumor, malignant
 Undifferentiated leukemia
 Undifferentiated sarcoma
 Urothelial carcinoma
 Urothelial carcinoma in situ

-V-

Vaginal intraepithelial neoplasia, grade III
 VAIN, III
 Verrucous carcinoma, NOS
 Verrucous epidermoid carcinoma
 Verrucous squamous cell carcinoma
 Villous adenocarcinoma
 VIN, III
 Vipoma, malignant
 Vulvar intraepithelial neoplasia, grade III

-W-

Waldenstrom macroglobulinemia
 Warty carcinoma
 Water-clear cell adenocarcinoma
 Water-clear cell carcinoma

Well differentiated thymic carcinoma

Wilms tumor

Wolffian duct carcinoma

Wuchernde Struma Langhans [obs] (Deleted in
ICD-O-3)

-XYZ-

Yolk sac tumor

B. REPORTABLE BENIGN AND BORDERLINE INTRACRANIAL AND CENTRAL NERVOUS SYSTEM TUMORS

-A-

Acidophil adenoma
 Acoustic neuroma
 Adamantinomatous craniopharyngioma
 Adenoma, NOS
 Adult cystic teratoma
 Adult teratoma, NOS
 Ancient schwannoma
 Angioblastoma
 Angioendothelioma
 Angiolipoma, NOS
 Angioma, NOS
 Angiomatous meningioma
 Atypical choroid plexus papilloma
 Atypical lipoma
 Atypical meningioma

-B-

Basophil adenoma

-C-

Capillary hemangioma
 Cavernous hemangioma
 Cellular schwannoma
 Central neurocytoma
 Cerebellar liponeurocytoma
 Chordoid glioma
 Chordoid glioma of third ventricle
 Chordoid meningioma
 Choroid plexus papilloma, NOS
 Chromophobe adenoma
 Clear cell adenoma
 Clear cell meningioma
 Clear cell tumor, NOS
 Craniopharyngioma
 Cystic teratoma, NOS

-D-

Degenerated schwannoma
 Dermoid cyst, NOS
 Dermoid, NOS
 Desmoplastic infantile astrocytoma
 Desmoplastic infantile ganglioglioma
 Diffuse melanocytosis
 Diffuse meningiomatosis
 Dysembryoplastic neuroepithelial tumor
 Dysplastic gangliocytoma of cerebellum
 (Lhermitte-Duclos)

-E-

Endotheliomatous meningioma
 Eosinophil adenoma
 Epithelial tumor, benign

-F-

Fibroblastic meningioma
 Fibrolipoma
 Fibroma, NOS
 Fibromyoma
 Fibrous meningioma

-G-

Gangliocytoma
 Ganglioglioma, NOS
 Ganglioneuroma
 Glandular papilloma
 Gliofibroma
 Glioneuroma [obs]
 Granular cell myoblastoma, NOS
 Granular cell tumor of the sellar region
 Granular cell tumor, NOS

-H-

Hemangioblastoma
 Hemangioendothelioma, benign
 Hemangioendothelioma, NOS
 Hemangioma simplex
 Hemangioma, NOS
 Hemangiopericytic meningioma [obs]
 Hemangiopericytoma, benign
 Hemangiopericytoma, NOS

-I-

Infantile hemangioma
 Intraneural perineurioma
 Intravascular leiomyomatosis

-J-

Juvenile hemangioma

-K-

Kaposiform hemangioendothelioma

-L-

Leiomyofibroma
 Leiomyoma, NOS
 Leiomyomatosis, NOS
 Lipoleiomyoma
 Lipoma, NOS
 Lipomatous medulloblastoma
 Localized fibrous tumor
 Lymphoplasmacyte-rich meningioma

-M-

Mature teratoma
 Medulloctoma
 Melanotic neurofibroma
 Melanotic schwannoma
 Meningeal melanocytoma
 Meningioma, NOS
 Meningiomatosis, NOS
 Meningothelial meningioma
 Metaplastic meningioma
 Microcystic meningioma
 Mixed acidophil-basophil adenoma
 Mixed cell adenoma
 Mixed meningioma
 Mixed subependymoma-ependymoma
 Monomorphic adenoma
 Mucoïd cell adenoma
 Multiple meningiomas
 Multiple neurofibromatosis
 Myxopapillary ependymoma

-N-

Neoplasm, benign
 Neoplasm, uncertain whether benign or malignant
 Nerve sheath myxoma
 Neurilemoma, NOS
 Neurinoma
 NeurinomatosiS
 Neuroastrocytoma [obs]
 Neurocytoma
 Neurofibroma, NOS
 Neurofibromatosis, NOS
 Neurolipocytoma
 Neuroma, NOS
 Neurothekeoma

-O-

Oncocytic adenoma
 Oncocytoma
 Oxyphilic adenoma

-P-

Papillary adenoma, NOS
 Papillary craniopharyngioma
 Paraganglioma, NOS
 Perineurioma, NOS
 Pigmented schwannoma
 Pinealoma, NOS
 Pineocytoma
 Pituitary adenoma, NOS
 Plexiform hemangioma
 Plexiform leiomyoma
 Plexiform neurofibroma

Plexiform neuroma
 Plexiform schwannoma
 Prolactinoma
 Psammomatous meningioma
 Psammomatous schwannoma

-R-

Rathke pouch tumor
 Recklinghausen disease
 Rhabdomyoma, NOS

-S-

Schwannoma, NOS
 Secretory meningioma
 Smooth muscle tumor, NOS
 Soft tissue perineurioma
 Soft tissue tumor, benign
 Solid teratoma
 Solitary fibrous tumor
 Subependymal astrocytoma, NOS
 Subependymal giant cell astrocytoma
 Subependymal glioma
 Subependymoma
 Superficial well differentiated liposarcoma
 Syncytial meningioma

-T-

Teratoma, benign
 Teratoma, differentiated
 Teratoma, NOS
 Transitional meningioma
 Tumor cells, benign
 Tumor cells, uncertain whether benign or malignant

-V-

Venous hemangioma
 Von Recklinghausen disease

APPENDIX C: ICD-9-CM CODE SCREENING LISTS FOR CASEFINDING
With Equivalent ICD-10-CM Codes
Revised for 2015 diagnoses.

The following list is intended to assist in casefinding activities that are performed in casefinding sources that use *ICD-9-CM* (or *ICD-10-CM*) codes to codify the diagnoses.

Casefinding List for Reportable Tumors

ICD-9-CM Codes	ICD-10-CM Codes	Diagnoses (in preferred ICD-O-3 terminology)
140._-172._ 174._-209.36, 209.7_	C00._-C43._ C45._-C96._	Malignant neoplasms (excluding category 173), stated or presumed to be primary (of specified sites) and certain specified histologies
173.00 173.09	C44.00 C44.09	Unspecified and other specified malignant neoplasm of skin of lip
173.10 173.19	C44.101 C44.191	Unspecified and other specified malignant neoplasm of eyelid, including canthus
173.20 173.29	C44.201 C44.291	Unspecified and other specified malignant neoplasm of ear and external auricular canal
173.30 173.39	C44.30 C44.39	Unspecified and other specified malignant neoplasm of skin of other and unspecified parts of face
173.40 173.49	C44.40 C44.49	Unspecified and other specified malignant neoplasm of scalp and skin of neck
173.50 173.59	C44.50 C44.59	Unspecified and other specified malignant neoplasm of skin of trunk, except scrotum
173.60 173.69	C44.601 C44.691	Unspecified and other specified malignant neoplasm of skin of upper limb, including shoulder
173.70 173.79	C44.701 C44.791	Unspecified and other specified malignant neoplasm of skin of lower limb, including hip
173.80 173.89	C44.80 C44.89	Unspecified and other specified malignant neoplasm of other specified sites of skin
173.90 173.99	C44.90 C44.99	Unspecified and other specified malignant neoplasm of skin, site unspecified
225.0-225.9	D32._-D33._	Benign neoplasm of brain and spinal cord neoplasm
227.3 227.4	D35.2 D35.3	Benign neoplasm of pituitary gland, craniopharyngeal duct (pouch) and pineal gland
228.02	D18.02	Hemangioma; of intracranial structures
228.1	D18.1	Lymphangioma, any site (Note: Includes only lymphangioma of brain, other parts of nervous system and endocrine glands.)
230.0-234.9	D00._-D09._	Carcinoma in situ
237.0-237.1	D44.3-D44.5	Neoplasm of uncertain behavior of endocrine glands and nervous system: pituitary gland, craniopharyngeal duct and pineal gland
237.5 237.6 237.9	D42._ D43.0_	Neoplasm of uncertain behavior of endocrine glands and nervous system: brain and spinal cord, meninges, endocrine glands and other and unspecified parts of nervous system
238.4	D45	Polycythemia vera (9950/3)
238.6	D47.79	Plasma cells
238.7_	C46._	Other lymphatic and hematopoietic tissues

ICD-9-CM Codes	ICD-10-CM Codes	Diagnoses (in preferred ICD-O-3 terminology)
	D47._	
239.6 239.7	D49.6	Neoplasms of unspecified nature: brain, endocrine glands and other parts of nervous system
273.3	C88.0	Macroglobulinemia (Waldenstrom macroglobulinemia)
277.89	C96.5 C96.6	Other specified disorders of metabolism: Hand-Schuller-Christian disease, histiocytosis (acute) (chronic), histiocytosis X (chronic)
288.4	D76.1-D76.3	Hemophagocytic syndrome (histiocytic syndromes)
289.6	D45	Familial polycythemia (synonym for polycythemia vera)

Notes:

The State Cancer Registry will continue to collect pilocytic/juvenile astrocytoma, M-9421, as a behavior code /3, although the behavior was changed to code /1 in *ICD-O-3*. This is consistent with the SEER program guidelines.

For cases diagnosed 1/01/2001 and later, the State Cancer Registry will not collect borderline cystadenomas M-8442, 8451, 8462, 8472, 8473, of the ovaries which changed from behavior code /3 in *ICD-O-2* to /1 in *ICD-O-3*. This is also consistent with the SEER program guidelines.

APPENDIX D-1: ALPHABETICAL LIST OF FACILITIES WITH IDENTIFICATION NUMBERS

<u>Facility Name</u>	<u>Indiana ID Number</u>	<u>ACoS ID Number</u>	<u>NPI</u>
Adams Memorial Hospital (Decatur)	001	6420240	1689696148
Bluffton Regional Medical Center (Bluffton)	009	6420140	1376594366
Cameron Memorial Community Hospital (Angola).....	008	6420055	1386683316
Cancer Care Partners (South Bend).....	814	10001167	1265735674
Clark Memorial Hospital (Jeffersonville)	010	6420750	1134186315
Columbus Regional Health (Columbus).....	004	6420200	1104998624
Community Hospital (Munster).....	018	6421050	1003918210
Community Hospital Anderson (Anderson).....	017	6420008	1972500452
Community Hospital East (Indianapolis).....	014	6420605	1336119478
Community Hospital North (Indianapolis)	015	6420605	1619163854
Community Hospital of Bremen (Bremen)	016	6420165	1568417004
Community Hospital South (Indianapolis).....	128	6420605	1235109778
Community Howard Regional Health (Kokomo)	041	6420775	1902878994
Community Westview Hospital (Indianapolis).....	119	6420640	1609873124
Daviess Community Hospital (Washington).....	020	6421460	1861465999
Deaconess Hospital (Evansville)	022	6420320	1053361642
Dearborn County Hospital (Lawrenceburg)	023	6420855	1326142498
Decatur County Memorial Hospital (Greensburg).....	024	6420530	1952300477
DeKalb Health (Auburn).....	021	6420085	1902897937
Dukes Memorial Hospital (Peru)	025	6421120	1619920949
Dupont Hospital (Fort Wayne).....	132	10000266	1538110556
Eskenazi Health (Indianapolis) (formerly Wishard Health Services)	125	6420620	1568407310
Elkhart General Hospital (Elkhart)	027	6420270	1477551489
Faith, Hope, and Love Cancer Center (Lafayette)	805		1508935552
Fayette Regional Health System (Connersville)	028	6420210	1508825720
Floyd Memorial Hospital & Health Services (New Albany)	029	6421045	1497798847
Franciscan Healthcare Munster (Munster).....	574		1114173507
Franciscan St. Anthony Health – Crown Point.....	090	6420225	1336205798
Franciscan St. Anthony Health – Michigan City.....	089	6421000	1710051941
Franciscan St. Elizabeth Health – Crawfordsville	019	6420220	1588774558
Franciscan St. Elizabeth Health – Lafayette Central	092	10000082	1538253521
Franciscan St. Francis Health – Beech Grove.....	093	10000014	1205931706
Franciscan St. Margaret Health – Dyer.....	076	6420560	1811077431
Franciscan St. Margaret Health – Hammond.....	100	6420560	1306921911
Gibson General Hospital (Princeton)	031	6421170	1558346007
Good Samaritan Hospital (Vincennes).....	032	6421410	1225032881
Greene County General Hospital (Linton).....	035	6420870	1184695389
Hancock Regional Hospital (Greenfield)	036	6420525	1467485003
Harrison County Hospital (Corydon)	037	6420215	1427165455
Hendricks Regional Health (Danville)	038	6420235	1669475950
Henry County Hospital (New Castle)	039	6421080	1356428429
Hind General Hospital (Hobart).....	139		1972636041
Indiana Surgery Center East (Indianapolis)	535	6420605	1891935201
Indiana Surgery Center North (Indianapolis)	534	6420605	1326286360
Indiana Surgery Center South (Indianapolis).....	536	6420605	1659519684
IU Health Arnett Hospital (Lafayette)	154	10000922	1326296211
IU Health Ball Memorial Hospital (Muncie)	003	6421040	1225195340
IU Health Bedford Hospital (Bedford)	005	6424005	1548260284
IU Health Blackford Hospital (Hartford City)	006	6420570	1871574822

IU Health Bloomington (Bloomington)	007	6420130	1205860335
IU Health Goshen Hospital (Goshen)	033	6420505	1740268846
IU Health La Porte Hospital (La Porte)	057	6420850	1144277971
IU Health Morgan Hospital (Martinsville)	073	6420960	1730140591
IU Health North Hospital (Carmel)	138	10000624	1568492916
IU Health Paoli Hospital (Paoli)	075	6421108	1912984451
IU Health Proton Therapy Center (Bloomington)	810	10001225	1780775163
IU Health Saxony Hospital (Fishers)	156		1144266024
IU Health Starke Hospital (Knox)	106	6420770	1003977075
IU Health Tipton Hospital (Tipton)	108	6421370	1699876094
IU Health West Hospital (Avon)	135	10000569	1063443455
IU Health White Memorial Hospital (Monticello)	120	6421025	1710983945
IU Health Methodist Hospital (Indianapolis)	071	6420660	1144266024
IU Health University and Riley Hospitals (Indianapolis)	045	6420660	1144266024
Jasper County Hospital (Rensselaer)	048	6421180	1811962228
Jay County Hospital (Portland)	049	6421160	1033115993
Johnson Memorial Hospital (Franklin)	051	6420465	1750381596
Kentuckiana Medical Center (Clarksville)	155		1760659205
King's Daughters Health (Madison)	053	6420910	1518916048
Kosciusko Community Hospital (Warsaw)	055	6421440	1164475711
Logansport Memorial Hospital (Logansport)	065	6420880	1356320469
Logansport Regional Cancer Center (Logansport)	211		1568413144
Lutheran Hospital of Indiana (Fort Wayne)	059	6420420	1306897335
Madison Center (South Bend)	152		1073565131
Madison County Cancer Care Center (Anderson)	808		1215988910
Major Hospital (Shelbyville)	122	6421270	1174555692
Margaret Mary Health (Batesville)	060	6420100	1558368449
Marion General Hospital (Marion)	061	6420920	1770679201
Memorial Hospital and Health Care Center (Jasper)	064	6420740	1003895947
Memorial Hospital of South Bend (South Bend)	067	6421290	1295772093
Methodist Hospitals (Gary)	069	6420495	1467504555
Monroe Hospital (Bloomington)	150	10000740	1831123942
Oncology Hematology Associates of SW Indiana (Evansville)	210		1437361516
Parkview Huntington Hospital (Huntington)	043	6420590	1003821729
Parkview LaGrange Hospital (LaGrange)	056	6420830	1912008772
Parkview Noble Hospital (Kendallville)	063	6420760	1457366189
Parkview Regional Medical Center (Fort Wayne)	077	6420440	1366407603
Parkview Whitley Hospital (Columbia City)	121	6420197	1205844495
Perry County Memorial Hospital (Tell City)	078	6421325	1699779017
Pinnacle Hospital (Crown Point)	153		1801969670
Porter Regional Hospital (Valparaiso)	079	6421390	1215151154
Progressive Cancer Care (Marion)	811		1609984301
Pulaski Memorial Hospital (Winamac)	080	6421485	1306928213
Putnam County Hospital (Greencastle)	082	6420520	1912947490
Radiation Oncology Associates (Fort Wayne)	812		1457337719
Reid Hospital and Health Care Services (Richmond)	084	6421190	1063457380
Richard L. Roudebush V.A. Medical Center (Indianapolis)	086	6420735	1679687503
River View Surgery Center (Marion)	565		1285635417
Riverview Health (Noblesville)	085	6421098	1700883717
Rush Memorial Hospital (Rushville)	087	6421255	1497726020
Saint Catherine Regional Hospital (Charlestown)	074	6421272	1891842381
Schneck Medical Center (Seymour)	047	6421260	1699738088
Scott Memorial Hospital (Scottsburg)	088	6421259	1154396604
St. Catherine Hospital (East Chicago)	091	6420260	1689776882
St. Joseph Hospital (Fort Wayne)	097	6420450	1023060472
St. Joseph Hospital (Kokomo)	095	6420780	1780625442

St. Joseph Regional Medical Center, Mishawaka Campus	099.....	6421300	1841245594
St. Joseph Regional Medical Center, Plymouth Campus	040.....	6421150	1174571129
St. Mary Medical Center (Hobart)	102.....	6420500	1558463745
St. Mary's Medical Center (Evansville)	103.....	10000047	1427082957
St. Mary's Warrick Hospital (Boonville).....	115.....	6420155	1205828803
St. Vincent Anderson Regional Hospital (Anderson)	094.....	6420050	1457360356
St. Vincent Clay Hospital (Brazil)	011.....	6420157	1770533994
St. Vincent Dunn Hospital (Bedford)	026.....	6420110	1548205842
St. Vincent Frankfort Hospital (Frankfort)	012.....	6420460	1336190727
St. Vincent Indianapolis Hospital (Indianapolis).....	104.....	6420710	1306898960
St. Vincent Jennings Hospital (North Vernon)	050.....	6421105	1285684829
St. Vincent Mercy Hospital (Elwood).....	068.....	6420280	1477508596
St. Vincent Randolph Hospital (Winchester).....	083.....	6421490	1609826783
St. Vincent Salem Hospital (Salem).....	116.....	6421257	1124062419
St. Vincent Seton Specialty Hospital (Indianapolis).....	130.....	10000263	1598710964
St. Vincent Seton Specialty Hospital (Lafayette)	137.....		1386699684
St. Vincent Williamsport Hospital (Williamsport).....	013.....	6421480	1518913565
Sullivan County Community Hospital (Sullivan).....	062.....	6421310	1497759260
Surgical Hospital of Munster (Munster).....	507.....		1720271844
Terre Haute Regional Hospital (Terre Haute)	107.....	6421360	1073550133
The Women's Hospital, Deaconess Health System (Newburg)	131.....		1114023512
Union Hospital Clinton (Clinton)	112.....	6420190	1093713802
Union Hospital (Terre Haute)	110.....	6421366	1619975331
V.A. Northern Indiana Health Care System – Fort Wayne Campus	002.....	6420455	1568411791
Vantage Oncology at Evansville Cancer Center (Evansville)	204.....	6421198	1225274244
Wabash County Hospital (Wabash).....	113.....	6421430	1245259878
Witham Health Services (Lebanon)	126.....	6420860	1861613036
Woodlawn Hospital (Rochester)	127.....	6421220	1265413405

APPENDIX D-2: NUMERICAL LIST OF FACILITIES WITH IDENTIFICATION NUMBERS

<u>Facility Name</u>	<u>Indiana ID Number</u>	<u>ACoS ID Number</u>	<u>NPI</u>
Adams Memorial Hospital (Decatur)	001	6420240	1689696148
V.A. Northern Indiana Health Care System – Fort Wayne Campus	002	6420455	1568411791
IU Health Ball Memorial Hospital (Muncie)	003	6421040	1225195340
Columbus Regional Health (Columbus).....	004	6420200	1104998624
IU Health Bedford Hospital (Bedford)	005	6424005	1548260284
IU Health Blackford Hospital (Hartford City)	006	6420570	1871574822
IU Health Bloomington (Bloomington).....	007	6420130	1205860335
Cameron Memorial Community Hospital (Angola).....	008	6420055	1386683316
Bluffton Regional Medical Center (Bluffton).....	009	6420140	1376594366
Clark Memorial Hospital (Jeffersonville)	010	6420750	1134186315
St. Vincent Clay Hospital (Brazil)	011	6420157	1770533994
St. Vincent Frankfort Hospital (Frankfort)	012	6420460	1336190727
St. Vincent Williamsport Hospital (Williamsport)	013	6421480	1518913565
Community Hospital East (Indianapolis)	014	6420605	1336119478
Community Hospital North (Indianapolis)	015	6420605	1619163854
Community Hospital of Bremen (Bremen)	016	6420165	1568417004
Community Hospital Anderson (Anderson).....	017	6420008	1972500452
Community Hospital (Munster).....	018	6421050	1003918210
Franciscan St. Elizabeth Health – Crawfordsville	019	6420220	1588774558
Daviess Community Hospital (Washington).....	020	6421460	1861465999
DeKalb Health (Auburn)	021	6420085	1902897937
Deaconess Hospital (Evansville)	022	6420320	1053361642
Dearborn County Hospital (Lawrenceburg)	023	6420855	1326142498
Decatur County Memorial Hospital (Greensburg).....	024	6420530	1952300477
Dukes Memorial Hospital (Peru)	025	6421120	1619920949
St. Vincent Dunn Hospital (Bedford)	026	6420110	1548205842
Elkhart General Hospital (Elkhart)	027	6420270	1477551489
Fayette Regional Health System (Connersville)	028	6420210	1508825720
Floyd Memorial Hospital & Health Services (New Albany)	029	6421045	1497798847
Gibson General Hospital (Princeton)	031	6421170	1558346007
Good Samaritan Hospital (Vincennes).....	032	6421410	1225032881
IU Health Goshen Hospital (Goshen)	033	6420505	1740268846
Greene County General Hospital (Linton).....	035	6420870	1184695389
Hancock Regional Hospital (Greenfield).....	036	6420525	1467485003
Harrison County Hospital (Corydon)	037	6420215	1427165455
Hendricks Regional Health (Danville)	038	6420235	1669475950
Henry County Hospital (New Castle)	039	6421080	1356428429
St. Joseph Regional Medical Center, Plymouth Campus	040	6421150	1174571129
Community Howard Regional Health (Kokomo)	041	6420775	1902878994
Parkview Huntington Hospital (Huntington)	043	6420590	1003821729
IU Health University and Riley Hospitals (Indianapolis).....	045	6420660	1144266024
Schneck Medical Center (Seymour)	047	6421260	1699738088
Jasper County Hospital (Rensselaer)	048	6421180	1811962228
Jay County Hospital (Portland)	049	6421160	1033115993
St. Vincent Jennings Hospital (North Vernon)	050	6421105	1285684829
Johnson Memorial Hospital (Franklin)	051	6420465	1750381596
King’s Daughters Health (Madison)	053	6420910	1518916048
Kosciusko Community Hospital (Warsaw)	055	6421440	1164475711
Parkview LaGrange Hospital (LaGrange)	056	6420830	1912008772
IU Health La Porte Hospital (La Porte)	057	6420850	1144277971
Lutheran Hospital of Indiana (Fort Wayne).....	059	6420420	1306897335

Margaret Mary Health (Batesville)	060	6420100	1558368449
Marion General Hospital (Marion)	061	6420920	1770679201
Sullivan County Community Hospital (Sullivan)	062	6421310	1497759260
Parkview Noble Hospital (Kendallville)	063	6420760	1457366189
Memorial Hospital and Health Care Center (Jasper)	064	6420740	1003895947
Logansport Memorial Hospital (Logansport)	065	6420880	1356320469
Memorial Hospital of South Bend (South Bend)	067	6421290	1295772093
St. Vincent Mercy Hospital (Elwood)	068	6420280	1477508596
Methodist Hospital (Gary)	069	6420495	1467504555
IU Health Methodist Hospital (Indianapolis)	071	6420660	1144266024
IU Health Morgan Hospital (Martinsville)	073	6420960	1730140591
Saint Catherine Regional Hospital (Charlestown)	074	6421272	1891842381
IU Health Paoli Hospital (Paoli)	075	6421108	1912984451
Franciscan St. Margaret Health – Dyer	076	6420560	1811077431
Parkview Regional Medical Center (Fort Wayne)	077	6420440	1366407603
Perry County Memorial Hospital (Tell City)	078	6421325	1699779017
Porter Regional Hospital (Valparaiso)	079	6421390	1215151154
Pulaski Memorial Hospital (Winamac)	080	6421485	1306928213
Putnam County Hospital (Greencastle)	082	6420520	1912947490
St. Vincent Randolph Hospital (Winchester)	083	6421490	1609826783
Reid Hospital and Health Care Services (Richmond)	084	6421190	1063457380
Riverview Health (Noblesville)	085	6421098	1700883717
Richard L. Roudebush V.A. Medical Center (Indianapolis)	086	6420735	1679687503
Rush Memorial Hospital (Rushville)	087	6421255	1497726020
Scott Memorial Hospital (Scottsburg)	088	6421259	1154396604
Franciscan St. Anthony Health – Michigan City	089	6421000	1710051941
Franciscan St. Anthony Health – Crown Point	090	6420225	1336205798
St. Catherine Hospital (East Chicago)	091	6420260	1689776882
Franciscan St. Elizabeth Health – Lafayette Central	092	10000082	1538253521
Franciscan St. Francis Health – Beech Grove	093	10000014	1205931706
St. Vincent Anderson Regional Hospital (Anderson)	094	6420050	1457360356
St. Joseph Hospital (Kokomo)	095	6420780	1780625442
St. Joseph Hospital (Fort Wayne)	097	6420450	1023060472
St. Joseph Regional Medical Center, Mishawaka Campus	099	6421300	1841245594
Franciscan St. Margaret Health – Hammond	100	6420560	1306921911
St. Mary Medical Center (Hobart)	102	6420500	1558463745
St. Mary's Medical Center (Evansville)	103	10000047	1427082957
St. Vincent Indianapolis Hospital (Indianapolis)	104	6420710	1306898960
IU Health Starke Hospital (Knox)	106	6420770	1003977075
Terre Haute Regional Hospital (Terre Haute)	107	6421360	1073550133
IU Health Tipton Hospital (Tipton)	108	6421370	1699876094
Union Hospital (Terre Haute)	110	6421366	1619975331
Union Hospital Clinton (Clinton)	112	6420190	1093713802
Wabash County Hospital (Wabash)	113	6421430	1245259878
St. Mary's Warrick Hospital (Boonville)	115	6420155	1205828803
St. Vincent Salem Hospital (Salem)	116	6421257	1124062419
Community Westview Hospital (Indianapolis)	119	6420640	1609873124
IU Health White Memorial Hospital (Monticello)	120	6421025	1710983945
Parkview Whitley Hospital (Columbia City)	121	6420197	1205844495
Major Hospital (Shelbyville)	122	6421270	1174555692
Eskenazi Health (Indianapolis) (formerly Wishard Health Services)	125	6420620	1568407310
Witham Health Services (Lebanon)	126	6420860	1861613036
Woodlawn Hospital (Rochester)	127	6421220	1265413405
Community Hospital South (Indianapolis)	128	6420605	1235109778
St. Vincent Seton Specialty Hospital (Indianapolis)	130	10000263	1598710964
The Women's Hospital, Deaconess Health System (Newburg)	131		1114023512

Dupont Hospital (Fort Wayne)	132	10000266	1538110556
IU Health West Hospital (Avon)	135	10000569	1063443455
St. Vincent Seton Specialty Hospital (Lafayette)	137		1386699684
IU Health North Hospital (Carmel)	138	10000624	1568492916
Hind General Hospital (Hobart)	139		1972636041
Monroe Hospital (Bloomington)	150	10000740	1831123942
Madison Center (South Bend)	152		1073565131
Pinnacle Hospital (Crown Point)	153		1801969670
IU Health Arnett Hospital (Lafayette)	154	10000922	1326296211
Kentuckiana Medical Center (Clarksville)	155		1760659205
IU Health Saxony Hospital (Fishers)	156		1144266024
Vantage Oncology at Evansville Cancer Center (Evansville)	204	6421198	1225274244
Oncology Hematology Associates of SW Indiana (Evansville)	210		1437361516
Logansport Regional Cancer Center (Logansport)	211		1568413144
Surgical Hospital of Munster (Munster)	507		1720271844
Indiana Surgery Center North (Indianapolis)	534	6420605	1326286360
Indiana Surgery Center East (Indianapolis)	535	6420605	1891935201
Indiana Surgery Center South (Indianapolis)	536	6420605	1659519684
River View Surgery Center (Marion)	565		1285635417
Franciscan Healthcare Munster (Munster)	574		1114173507
Faith, Hope, and Love Cancer Center (Lafayette)	805		1508935552
Madison County Cancer Care Center (Anderson)	808		1215988910
IU Health Proton Therapy Center (Bloomington)	810	10001225	1780775163
Progressive Cancer Care (Marion)	811		1609984301
Radiation Oncology Associates (Fort Wayne)	812		1457337719
Cancer Care Partners (South Bend)	814	10001167	1265735674

APPENDIX E: RULES FOR DETERMINING MULTIPLE PRIMARIES FOR LYMPHATIC AND HEMATOPOIETIC DISEASES

Definitions of single and subsequent primaries for hematologic malignancies based on *ICD-O-3* reportable malignancies, effective for cases diagnosed 01/01/2001 through 12/31/2009.

Cancer registrars are often faced with multiple pathology reports for patients with hematologic malignancies, and the diagnoses reported may require different morphology codes. This is due in part to the fact that more intensive diagnostic study may yield a more specific diagnosis, and in part to the natural histories of hematopoietic diseases, which may progress from one diagnosis into another.

The table on the following pages, provided to aid the registrar in determining single versus subsequent primaries, employs the following guidelines:

1. "Lymphoma" is a general term for hematopoietic solid malignancies of the lymphoid series. "Leukemia" is a general term for liquid malignancies of either the lymphoid or the myeloid series. While it is recognized that some malignancies occur predominantly (or even exclusively) in liquid or solid form, because so many malignancies can potentially arise as either leukemias or lymphomas (or both), all hematopoietic malignancies are assumed to have this potential.
2. Malignancies of the lymphoid series are considered to be different from those of the myeloid series. Therefore, a lymphoid malignancy arising after diagnosis of a myeloid malignancy (or myelodysplastic or myeloproliferative disorder) would be considered a subsequent primary; however, a myeloid malignancy diagnosed after a previous myeloid malignancy would not count as a subsequent primary. Histiocytic malignancies are considered different from both lymphoid and myeloid malignancies.
3. Hodgkin lymphoma is considered to be different from non-Hodgkin lymphoma (NHL). Among the NHLs, B-cell malignancies are considered different from T-cell/NK cell malignancies. Therefore, a B-cell malignancy arising later in the course of a patient previously diagnosed with a T-cell malignancy would be considered a subsequent primary. However, a T-cell malignancy diagnosed later in the same patient would not be considered a subsequent primary.
4. The sequence of diagnoses affects whether a diagnosis represents a subsequent primary. In some cases, the order of occurrence of the two diagnoses being compared is a factor in the decision as to whether the second diagnosis is a new primary.

How to Use the Table

Assign the *ICD-O-3* code to the first diagnosis and find the row containing that code. Assign the *ICD-O-3* code for the second diagnosis and find the column containing that code. In the cell at the intersection of the first diagnosis row and the second diagnosis column, an "**S**" symbol indicates that the two diagnoses are most likely the **same** disease process (prepare/update a single abstract), and a "**D**" indicates that they are most likely **different** disease processes (prepare more than one abstract).

Note 1: If one of the two diagnoses is an NOS (not otherwise specified) term and the other is more specific and determined to be the same disease process, code the more specific diagnosis regardless of the sequence. For example, if a diagnosis of non-Hodgkin lymphoma, NOS is followed by a diagnosis of follicular lymphoma, assign the morphology code for the follicular lymphoma.

Note 2: The table on the following pages and the "Complete Diagnostic Terms for Table (Based on *ICD-O-3*)" display only the *ICD-O-3* primary (boldfaced) term associated with the code. Refer to the *International Classification of Diseases, Third Edition (ICD-O-3)* for a complete list of related terms and synonyms.

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		1. 9590 Malignant lymphoma, NOS	2. 9591 NHL, NOS	3. 9596 Composite HD/NHL	4. 9650-9667 Hodgkin lymphoma	5. 9670-9671 ML, small B lymph	6. 9673 Mantle cell lymphoma	7. 9675-9684 ML, diff large B-cell	8. 9687 Burkitt lymphoma	9. 9689,9699 Marg zn, B-cl lymph
Second Diagnosis Across →	↓ First Diagnosis Down									
1. Malignant lymphoma, NOS	9590	S	S	S	S	S	S	S	S	
2. Malignant lymphoma, non-Hodgkin, NOS	9591	S	S	D	D	S	S	S	S	
3. Composite HD/NHL	9596	S	S	S	S	S	S	S	S	
4. Hodgkin lymphoma	9650-9667	S	D	D	S	D	D	D	D	
5. Malignant lymphoma, small B lymphocytic	9670-9671	S	S	D	D	S	D	S	D	
6. Mantle cell lymphoma	9673	S	S	D	D	D	S	D	D	
7. Malignant lymphoma, diffuse, large B-cell	9675-9684	S	S	D	D	S	D	S	D	
8. Burkitt lymphoma	9687	S	S	D	D	D	D	S	D	
9. Marginal zone, B-cell lymphoma	9689, 9699	S	S	D	D	D	D	D	S	
10. Follicular lymphoma	9690-9698	S	S	D	D	D	D	S	D	
11. Mycosis fungoides, Sezary disease	9700-9701	S	S	D	D	D	D	D	D	
12. T/NK-cell non-Hodgkin lymphoma	9702-9719	S	S	D	D	D	D	D	D	
13. Precursor lymphoblastic lymphoma, NOS	9727	S	S	D	D	D	D	D	D	
14. Precursor B-cell lymphoblastic lymphoma	9728	S	S	D	D	D	D	D	D	
15. Precursor T-cell lymphoblastic lymphoma	9729	S	S	D	D	D	D	D	D	
16. Plasma cell tumors	9731-9734	D	D	D	D	D	D	D	D	
17. Mast cell tumors	9740-9742	D	D	D	D	D	D	D	D	
18. Histiocytosis/Langerhans cell histiocytosis	9750-9756	D	D	D	D	D	D	D	D	
19. Dendritic cell sarcoma	9757-9758	S	S	D	D	D	D	D	D	
20. Immunoproliferative disease, NOS	9760	S	S	D	D	S	D	S	D	
21. Waldenstrom macroglobulinemia	9761	S	S	D	D	S	D	S	D	
22. Heavy chain disease, NOS	9762	S	S	D	D	D	D	D	D	
23. Immunoproliferative small intestinal disease	9764	S	S	D	D	D	D	D	D	
24. Leukemia/Acute leukemia, NOS	9800-9801	S	S	D	D	D	D	S	D	
25. Acute biphenotypic leukemia	9805	S	S	D	D	S	S	S	S	
26. Lymphocytic leukemia, NOS	9820	S	S	D	D	D	D	S	D	
27. BCLL/SLL	9823	S	S	D	D	S	D	S	D	
28. Burkitt cell leukemia	9826	S	S	D	D	D	D	S	D	
29. Adult T-cell leukemia/lymphoma	9827	S	S	D	D	D	D	D	D	
30. Prolymphocytic leukemia, NOS	9832	D	D	D	D	S	D	D	D	
31. Prolymphocytic leukemia, B-cell	9833	D	D	D	D	S	D	D	D	
32. Prolymphocytic leukemia, T-cell	9834	D	D	D	D	D	D	D	D	
33. Precursor cell lymphoblastic leukemia, NOS	9835	S	S	D	D	D	D	D	D	
34. Precursor B-cell lymphoblastic leukemia	9836	S	S	D	D	D	D	D	D	
35. Precursor T-cell lymphoblastic leukemia	9837	S	S	D	D	D	D	D	D	
36. Myeloid leukemias	9840-9910	D	D	D	D	D	D	D	D	
37. Therapy related acute myelogenous leuk.	9920	D	D	D	D	D	D	D	D	
38. Myeloid sarcoma	9930	D	D	D	D	D	D	D	D	
39. Acute panmyelosis	9931	D	D	D	D	D	D	D	D	
40. Hairy cell leukemia	9940	D	D	D	D	D	D	D	D	
41. Chronic myelomonocytic leukemia	9945	D	D	D	D	D	D	D	D	
42. Juvenile myelomonocytic leukemia	9946	D	D	D	D	D	D	D	D	
43. NK-cell leukemia	9948	S	S	D	D	D	D	D	D	
44. Polycythemia vera	9950	D	D	D	D	D	D	D	D	
45. Chronic myeloproliferative disease	9960	D	D	D	D	D	D	D	D	
46. Myelofibrosis	9961	D	D	D	D	D	D	D	D	
47. Essential thrombocythemia	9962	D	D	D	D	D	D	D	D	
48. Chronic neutrophilic leukemia	9963	D	D	D	D	D	D	D	D	
49. Hypereosinophilic syndrome	9964	D	D	D	D	D	D	D	D	
50. Refractory anemias	9980-9986	D	D	D	D	D	D	D	D	
51. Therapy related MDS	9987	D	D	D	D	D	D	D	D	
52. Myelodysplastic syndrome, NOS	9989	D	D	D	D	D	D	D	D	

Key: S = one primary only; D = presumably a subsequent primary

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Second Diagnosis Across →

↓ First Diagnosis Down

		10. 9690-9698 Follicular lymphoma	11. 9700-9701 MF, Sezary disease	12. 9702-9719 T/NK-cell lymphoma	13. 9727 Precursor lym'bias lymph NOS	14. 9728 Precursor lym'bias lymph B-ci	15. 9729 Precursor lym'bias lymph T-ci	16. 9731-9734 Plasma cell tumors	17. 9740-9742 Mast cell tumors	18. 9750-9756 Histiocytosis; LCH
1. Malignant lymphoma, NOS	9590	S	S	S	S	S	S	S	S	S
2. Malignant lymphoma, non-Hodgkin, NOS	9591	S	S	S	S	S	S	D	D	D
3. Composite HD/NHL	9596	S	S	S	S	S	S	D	D	D
4. Hodgkin lymphoma	9650-9667	D	D	D	D	D	D	D	D	D
5. Malignant lymphoma, small B lymphocytic	9670-9671	D	D	D	D	D	D	D	D	D
6. Mantle cell lymphoma	9673	D	D	D	D	D	D	D	D	D
7. Malignant lymphoma, diffuse, large B-cell	9675-9684	S	D	D	D	D	D	D	D	D
8. Burkitt lymphoma	9687	D	D	D	D	D	D	D	D	D
9. Marginal zone, B-cell lymphoma	9689, 9699	D	D	D	D	D	D	D	D	D
10. Follicular lymphoma	9690-9698	S	D	D	D	D	D	D	D	D
11. Mycosis fungoides, Sezary disease	9700-9701	D	S	D	D	D	D	D	D	D
12. T/NK-cell non-Hodgkin lymphoma	9702-9719	D	D	S	D	D	D	D	D	D
13. Precursor lymphoblastic lymphoma, NOS	9727	D	D	D	S	S	S	D	D	D
14. Precursor B-cell lymphoblastic lymphoma	9728	D	D	D	S	S	D	D	D	D
15. Precursor T-cell lymphoblastic lymphoma	9729	D	D	D	S	D	S	D	D	D
16. Plasma cell tumors	9731-9734	D	D	D	D	D	D	S	D	D
17. Mast cell tumors	9740-9742	D	D	D	D	D	D	D	S	D
18. Histiocytosis/Langerhans cell histiocytosis	9750-9756	D	D	D	D	D	D	D	D	S
19. Dendritic cell sarcoma	9757-9758	D	D	D	D	D	D	D	D	D
20. Immunoproliferative disease, NOS	9760	D	D	D	D	D	D	S	D	D
21. Waldenstrom macroglobulinemia	9761	D	D	D	D	D	D	D	D	D
22. Heavy chain disease, NOS	9762	D	D	D	D	D	D	D	D	D
23. Immunoproliferative small intestinal disease	9764	D	D	D	D	D	D	S	D	D
24. Leukemia/Acute leukemia, NOS	9800-9801	D	D	S	S	S	S	D	D	D
25. Acute biphenotypic leukemia	9805	S	S	S	S	S	S	D	D	D
26. Lymphocytic leukemia, NOS	9820	S	S	S	S	S	S	D	D	D
27. BCLL/SLL	9823	D	D	D	D	D	D	D	D	D
28. Burkitt cell leukemia	9826	D	D	D	D	D	D	D	D	D
29. Adult T-cell leukemia/lymphoma	9827	D	D	D	D	D	D	D	D	D
30. Prolymphocytic leukemia, NOS	9832	D	D	D	D	D	D	D	D	D
31. Prolymphocytic leukemia, B-cell	9833	D	D	D	D	D	D	D	D	D
32. Prolymphocytic leukemia, T-cell	9834	D	D	D	D	D	D	D	D	D
33. Precursor cell lymphoblastic leukemia, NOS	9835	D	D	D	S	S	S	D	D	D
34. Precursor B-cell lymphoblastic leukemia	9836	D	D	D	S	S	D	D	D	D
35. Precursor T-cell lymphoblastic leukemia	9837	D	D	D	S	D	S	D	D	D
36. Myeloid leukemias	9840-9910	D	D	D	D	D	D	D	D	D
37. Therapy related acute myelogenous leuk.	9920	D	D	D	D	D	D	D	D	D
38. Myeloid sarcoma	9930	D	D	D	D	D	D	D	D	D
39. Acute panmyelosis	9931	D	D	D	D	D	D	D	D	D
40. Hairy cell leukemia	9940	D	D	D	D	D	D	D	D	D
41. Chronic myelomonocytic leukemia	9945	D	D	D	D	D	D	D	D	D
42. Juvenile myelomonocytic leukemia	9946	D	D	D	D	D	D	D	D	D
43. NK-cell leukemia	9948	D	D	S	D	D	D	D	D	D
44. Polycythemia vera	9950	D	D	D	D	D	D	D	D	D
45. Chronic myeloproliferative disease	9960	D	D	D	D	D	D	D	D	D
46. Myelofibrosis	9961	D	D	D	D	D	D	D	D	D
47. Essential thrombocythemia	9962	D	D	D	D	D	D	D	D	D
48. Chronic neutrophilic leukemia	9963	D	D	D	D	D	D	D	D	D
49. Hypereosinophilic syndrome	9964	D	D	D	D	D	D	D	D	D
50. Refractory anemias	9980-9986	D	D	D	D	D	D	D	D	D
51. Therapy related MDS	9987	D	D	D	D	D	D	D	D	D
52. Myelodysplastic syndrome, NOS	9989	D	D	D	D	D	D	D	D	D

Key: S = one primary only; D = presumably a subsequent primary

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		19.	20.	21.	22.	23.	24.	25.	26.	27.
		9757-9758	9760	9761	9762	9764	9800-9801	9805	9820	9823
		Dendritic cell sarc	Immunoprolif dis	Waldenstrom macro	Heavy chain dis	Imm sm intest dis	Leuk/Acu leuk NOS	Acute biphenotypic leuk	Lym'cyt leuk, NOS	BCLL/SLL
Second Diagnosis Across →										
↓ First Diagnosis Down										
1. Malignant lymphoma, NOS	9590	S	S	S	S	S	S	S	S	S
2. Malignant lymphoma, non-Hodgkin, NOS	9591	S	S	S	S	S	S	S	S	S
3. Composite HD/NHL	9596	D	S	S	S	S	S	D	S	S
4. Hodgkin lymphoma	9650-9667	D	D	D	D	D	D	D	D	D
5. Malignant lymphoma, small B lymphocytic	9670-9671	D	D	S	D	D	D	S	S	S
6. Mantle cell lymphoma	9673	D	D	D	D	D	D	S	D	D
7. Malignant lymphoma, diffuse, large B-cell	9675-9684	D	S	S	S	S	D	S	S	S
8. Burkitt lymphoma	9687	D	D	D	D	D	S	S	S	D
9. Marginal zone, B-cell lymphoma	9689, 9699	D	D	D	D	D	D	S	D	D
10. Follicular lymphoma	9690-9698	D	D	D	D	D	D	S	D	D
11. Mycosis fungoides, Sezary disease	9700-9701	D	D	D	D	D	D	S	S	D
12. T/NK-cell non-Hodgkin lymphoma	9702-9719	D	S	D	D	D	D	S	S	D
13. Precursor lymphoblastic lymphoma, NOS	9727	D	D	D	D	D	S	S	S	D
14. Precursor B-cell lymphoblastic lymphoma	9728	D	D	D	D	D	S	S	S	D
15. Precursor T-cell lymphoblastic lymphoma	9729	D	D	D	D	D	S	S	S	D
16. Plasma cell tumors	9731-9734	D	D	D	D	D	D	D	D	D
17. Mast cell tumors	9740-9742	D	D	D	D	D	D	D	D	D
18. Histiocytosis/Langerhans cell histiocytosis	9750-9756	D	D	D	D	D	D	D	D	D
19. Dendritic cell sarcoma	9757-9758	S	D	D	D	D	D	D	D	D
20. Immunoproliferative disease, NOS	9760	D	S	S	S	S	D	D	D	D
21. Waldenstrom macroglobulinemia	9761	D	S	S	D	D	D	D	S	S
22. Heavy chain disease, NOS	9762	D	S	D	S	S	D	D	S	S
23. Immunoproliferative small intestinal disease	9764	D	S	D	S	S	D	D	D	D
24. Leukemia/Acute leukemia, NOS	9800-9801	D	D	D	D	D	S	S	S	D
25. Acute biphenotypic leukemia	9805	D	D	D	D	D	S	S	S	S
26. Lymphocytic leukemia, NOS	9820	D	S	S	S	D	S	S	S	S
27. BCLL/SLL	9823	D	S	D	D	D	D	S	S	S
28. Burkitt cell leukemia	9826	D	D	D	D	D	S	S	S	D
29. Adult T-cell leukemia/lymphoma	9827	D	D	D	D	D	D	S	S	D
30. Prolymphocytic leukemia, NOS	9832	D	D	D	D	D	D	S	S	S
31. Prolymphocytic leukemia, B-cell	9833	D	D	D	D	D	D	S	S	S
32. Prolymphocytic leukemia, T-cell	9834	D	D	D	D	D	D	S	S	D
33. Precursor cell lymphoblastic leukemia, NOS	9835	D	D	D	D	D	S	S	S	D
34. Precursor B-cell lymphoblastic leukemia	9836	D	D	D	D	D	S	S	S	D
35. Precursor T-cell lymphoblastic leukemia	9837	D	D	D	D	D	S	S	S	D
36. Myeloid leukemias	9840-9910	D	D	D	D	D	S	S	D	D
37. Therapy related acute myelogenous leuk.	9920	D	D	D	D	D	S	S	D	D
38. Myeloid sarcoma	9930	D	D	D	D	D	S	S	D	D
39. Acute panmyelosis	9931	D	D	D	D	D	S	S	D	D
40. Hairy cell leukemia	9940	D	D	D	D	D	S	S	D	D
41. Chronic myelomonocytic leukemia	9945	D	D	D	D	D	S	S	D	D
42. Juvenile myelomonocytic leukemia	9946	D	D	D	D	D	S	S	D	D
43. NK-cell leukemia	9948	D	D	D	D	D	S	S	S	D
44. Polycythemia vera	9950	D	D	D	D	D	S	D	D	D
45. Chronic myeloproliferative disease	9960	D	D	D	D	D	S	S	D	D
46. Myelofibrosis	9961	D	D	D	D	D	S	S	D	D
47. Essential thrombocythemia	9962	D	D	D	D	D	S	D	D	D
48. Chronic neutrophilic leukemia	9963	D	D	D	D	D	S	D	D	D
49. Hypereosinophilic syndrome	9964	D	D	D	D	D	S	D	D	D
50. Refractory anemias	9980-9986	D	D	D	D	D	S	S	D	D
51. Therapy related MDS	9987	D	D	D	D	D	S	S	D	D
52. Myelodysplastic syndrome, NOS	9989	D	D	D	D	D	S	S	D	D

Key: S = one primary only; D = presumably a subsequent primary

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Second Diagnosis Across →

↓ First Diagnosis Down

		28. 9826 Burkitt leukemia	29. 9827 Adult T-cell leuk/lym	30. 9832 Prolym leuk, NOS	31. 9833 Prolym leuk, B-cell	32. 9834 Prolym leuk, T-cell	33. 9835 Precursor leukemia, NOS	34. 9836 Precursor leukemia B-cell	35. 9837 Precursor leukemia T-cell	36. 9840-9910 Myeloid leukemias
1. Malignant lymphoma, NOS	9590	S	S	S	S	S	S	S	S	S
2. Malignant lymphoma, non-Hodgkin, NOS	9591	S	S	D	D	D	S	S	S	D
3. Composite HD/NHL	9596	S	S	D	D	D	S	S	S	D
4. Hodgkin lymphoma	9650-9667	D	D	D	D	D	D	D	D	D
5. Malignant lymphoma, small B lymphocytic	9670-9671	D	D	S	S	D	D	D	D	D
6. Mantle cell lymphoma	9673	D	D	D	D	D	D	D	D	D
7. Malignant lymphoma, diffuse, large B-cell	9675-9684	D	D	S	S	D	D	D	D	D
8. Burkitt lymphoma	9687	S	D	D	D	D	D	D	D	D
9. Marginal zone, B-cell lymphoma	9689, 9699	D	D	D	D	D	D	D	D	D
10. Follicular lymphoma	9690-9698	D	D	D	D	D	D	D	D	D
11. Mycosis fungoides, Sezary disease	9700-9701	D	D	D	D	D	D	D	D	D
12. T/NK-cell non-Hodgkin lymphoma	9702-9719	D	D	D	D	D	D	D	D	D
13. Precursor lymphoblastic lymphoma, NOS	9727	D	D	D	D	D	S	S	S	D
14. Precursor B-cell lymphoblastic lymphoma	9728	D	D	D	D	D	S	S	D	D
15. Precursor T-cell lymphoblastic lymphoma	9729	D	D	D	D	D	S	D	S	D
16. Plasma cell tumors	9731-9734	D	D	D	D	D	D	D	D	D
17. Mast cell tumors	9740-9742	D	D	D	D	D	D	D	D	D
18. Histiocytosis/Langerhans cell histiocytosis	9750-9756	D	D	D	D	D	D	D	D	D
19. Dendritic cell sarcoma	9757-9758	D	D	D	D	D	D	D	D	D
20. Immunoproliferative disease, NOS	9760	D	D	D	D	D	D	D	D	D
21. Waldenstrom macroglobulinemia	9761	D	D	D	D	D	D	D	D	D
22. Heavy chain disease, NOS	9762	D	D	D	D	D	D	D	D	D
23. Immunoproliferative small intestinal disease	9764	D	D	D	D	D	D	D	D	D
24. Leukemia/Acute leukemia, NOS	9800-9801	S	S	D	D	D	S	S	S	S
25. Acute biphenotypic leukemia	9805	S	S	S	S	S	S	S	S	S
26. Lymphocytic leukemia, NOS	9820	S	S	S	S	S	S	S	S	D
27. BCLL/SLL	9823	D	D	S	S	D	D	D	D	D
28. Burkitt cell leukemia	9826	S	D	D	D	D	D	D	D	D
29. Adult T-cell leukemia/lymphoma	9827	D	S	D	D	D	D	D	D	D
30. Prolymphocytic leukemia, NOS	9832	D	D	S	S	S	D	D	D	D
31. Prolymphocytic leukemia, B-cell	9833	D	D	S	S	D	D	D	D	D
32. Prolymphocytic leukemia, T-cell	9834	D	S	S	D	S	D	D	D	D
33. Precursor cell lymphoblastic leukemia, NOS	9835	D	D	D	D	D	S	S	S	D
34. Precursor B-cell lymphoblastic leukemia	9836	D	D	D	D	D	S	S	D	D
35. Precursor T-cell lymphoblastic leukemia	9837	D	D	D	D	D	S	D	S	D
36. Myeloid leukemias	9840-9910	D	D	D	D	D	D	D	D	S
37. Therapy related acute myelogenous leuk.	9920	D	D	D	D	D	D	D	D	S
38. Myeloid sarcoma	9930	D	D	D	D	D	D	D	D	S
39. Acute panmyelosis	9931	D	D	D	D	D	D	D	D	S
40. Hairy cell leukemia	9940	D	D	D	D	D	D	D	D	D
41. Chronic myelomonocytic leukemia	9945	D	D	D	D	D	D	D	D	S
42. Juvenile myelomonocytic leukemia	9946	D	D	D	D	D	D	D	D	S
43. NK-cell leukemia	9948	D	D	D	D	D	D	D	D	D
44. Polycythemia vera	9950	D	D	D	D	D	D	D	D	D
45. Chronic myeloproliferative disease	9960	D	D	D	D	D	D	D	D	S
46. Myelofibrosis	9961	D	D	D	D	D	D	D	D	S
47. Essential thrombocythemia	9962	D	D	D	D	D	D	D	D	S
48. Chronic neutrophilic leukemia	9963	D	D	D	D	D	D	D	D	S
49. Hypereosinophilic syndrome	9964	D	D	D	D	D	D	D	D	S
50. Refractory anemias	9980-9986	D	D	D	D	D	D	D	D	S
51. Therapy related MDS	9987	D	D	D	D	D	D	D	D	S
52. Myelodysplastic syndrome, NOS	9989	D	D	D	D	D	D	D	D	S

Key: S = one primary only; D = presumably a subsequent primary

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		37. 9920 Therapy relat AML	38. 9930 Myeloid sarcoma	39. 9931 Acute panmyelosis	40. 9940 Hairy cell leukemia	41. 9945 Chronic myelomono leuk	42. 9946 Juvenile myelomono leuk	43. 9948 NK-cell leukemia	44. 9950 Polycythemia vera	45. 9960 Chr myeloprolif dis
Second Diagnosis Across →	First Diagnosis Down ↓									
1. Malignant lymphoma, NOS	9590	S	S	S	S	S	S	S	D	D
2. Malignant lymphoma, non-Hodgkin, NOS	9591	D	D	D	D	D	D	D	D	D
3. Composite HD/NHL	9596	D	D	D	D	D	D	D	D	D
4. Hodgkin lymphoma	9650-9667	D	D	D	D	D	D	D	D	D
5. Malignant lymphoma, small B lymphocytic	9670-9671	D	D	D	D	D	D	D	D	D
6. Mantle cell lymphoma	9673	D	D	D	D	D	D	D	D	D
7. Malignant lymphoma, diffuse, large B-cell	9675-9684	D	D	D	D	D	D	D	D	D
8. Burkitt lymphoma	9687	D	D	D	D	D	D	D	D	D
9. Marginal zone, B-cell lymphoma	9689, 9699	D	D	D	D	D	D	D	D	D
10. Follicular lymphoma	9690-9698	D	D	D	D	D	D	D	D	D
11. Mycosis fungoides, Sezary disease	9700-9701	D	D	D	D	D	D	D	D	D
12. T/NK-cell non-Hodgkin lymphoma	9702-9719	D	D	D	D	D	D	D	D	D
13. Precursor lymphoblastic lymphoma, NOS	9727	D	D	D	D	D	D	D	D	D
14. Precursor B-cell lymphoblastic lymphoma	9728	D	D	D	D	D	D	D	D	D
15. Precursor T-cell lymphoblastic lymphoma	9729	D	D	D	D	D	D	D	D	D
16. Plasma cell tumors	9731-9734	D	D	D	D	D	D	D	D	D
17. Mast cell tumors	9740-9742	D	D	D	D	D	D	D	D	D
18. Histiocytosis/Langerhans cell histiocytosis	9750-9756	D	D	D	D	D	D	D	D	D
19. Dendritic cell sarcoma	9757-9758	D	D	D	D	D	D	D	D	D
20. Immunoproliferative disease, NOS	9760	D	D	D	D	D	D	D	D	D
21. Waldenstrom macroglobulinemia	9761	D	D	D	D	D	D	D	D	D
22. Heavy chain disease, NOS	9762	D	D	D	D	D	D	D	D	D
23. Immunoproliferative small intestinal disease	9764	D	D	D	D	D	D	D	D	D
24. Leukemia/Acute leukemia, NOS	9800-9801	S	S	D	D	S	S	D	D	S
25. Acute biphenotypic leukemia	9805	S	S	S	S	S	S	S	D	S
26. Lymphocytic leukemia, NOS	9820	D	D	D	S	D	D	S	D	D
27. BCLL/SLL	9823	D	D	D	D	D	D	D	D	D
28. Burkitt cell leukemia	9826	D	D	D	D	D	D	D	D	D
29. Adult T-cell leukemia/lymphoma	9827	D	D	D	D	D	D	D	D	D
30. Prolymphocytic leukemia, NOS	9832	D	D	D	D	D	D	D	D	D
31. Prolymphocytic leukemia, B-cell	9833	D	D	D	D	D	D	D	D	D
32. Prolymphocytic leukemia, T-cell	9834	D	D	D	D	D	D	D	D	D
33. Precursor cell lymphoblastic leukemia, NOS	9835	D	D	D	D	D	D	D	D	D
34. Precursor B-cell lymphoblastic leukemia	9836	D	D	D	D	D	D	D	D	D
35. Precursor T-cell lymphoblastic leukemia	9837	D	D	D	D	D	D	D	D	D
36. Myeloid leukemias	9840-9910	S	S	S	D	S	S	D	D	S
37. Therapy related acute myelogenous leuk.	9920	S	S	S	D	S	S	D	D	D
38. Myeloid sarcoma	9930	S	S	S	D	S	S	D	D	S
39. Acute panmyelosis	9931	S	S	S	D	S	S	D	D	D
40. Hairy cell leukemia	9940	D	D	D	S	D	D	D	D	D
41. Chronic myelomonocytic leukemia	9945	S	S	S	D	S	S	D	D	S
42. Juvenile myelomonocytic leukemia	9946	S	S	S	D	S	S	D	D	D
43. NK-cell leukemia	9948	D	D	D	D	D	D	S	D	D
44. Polycythemia vera	9950	D	D	D	D	D	D	D	S	S
45. Chronic myeloproliferative disease	9960	S	S	S	D	S	D	D	D	S
46. Myelofibrosis	9961	S	S	S	D	S	S	D	D	S
47. Essential thrombocythemia	9962	S	S	S	D	S	D	D	D	S
48. Chronic neutrophilic leukemia	9963	S	S	S	D	S	D	D	D	S
49. Hypereosinophilic syndrome	9964	S	S	S	D	S	S	D	D	S
50. Refractory anemias	9980-9986	S	S	S	D	S	S	D	D	S
51. Therapy related MDS	9987	S	S	S	D	S	S	D	D	S
52. Myelodysplastic syndrome, NOS	9989	S	S	S	D	S	S	D	D	S

Key: S = one primary only; D = presumably a subsequent primary

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Second Diagnosis Across →

↓ First Diagnosis Down

		46. 9961 Myeloclerosis	47. 9962 Essential thrombocythemia	48. 9963 Chr neutrophil leuk	49. 9964 Hypereosin syndr	50. 9980-9986 Refract anemias	51. 9987 Therapy rel MDS	52. 9989 Myelodys syn NOS
1. Malignant lymphoma, NOS	9590	D	D	D	D	D	D	D
2. Malignant lymphoma, non-Hodgkin, NOS	9591	D	D	D	D	D	D	D
3. Composite HD/NHL	9596	D	D	D	D	D	D	D
4. Hodgkin lymphoma	9650-9667	D	D	D	D	D	D	D
5. Malignant lymphoma, small B lymphocytic	9670-9671	D	D	D	D	D	D	D
6. Mantle cell lymphoma	9673	D	D	D	D	D	D	D
7. Malignant lymphoma, diffuse, large B-cell	9675-9684	D	D	D	D	D	D	D
8. Burkitt lymphoma	9687	D	D	D	D	D	D	D
9. Marginal zone, B-cell lymphoma	9689, 9699	D	D	D	D	D	D	D
10. Follicular lymphoma	9690-9698	D	D	D	D	D	D	D
11. Mycosis fungoides, Sezary disease	9700-9701	D	D	D	D	D	D	D
12. T/NK-cell non-Hodgkin lymphoma	9702-9719	D	D	D	D	D	D	D
13. Precursor lymphoblastic lymphoma, NOS	9727	D	D	D	D	D	D	D
14. Precursor B-cell lymphoblastic lymphoma	9728	D	D	D	D	D	D	D
15. Precursor T-cell lymphoblastic lymphoma	9729	D	D	D	D	D	D	D
16. Plasma cell tumors	9731-9734	D	D	D	D	D	D	D
17. Mast cell tumors	9740-9742	D	D	D	D	D	D	D
18. Histiocytosis/Langerhans cell histiocytosis	9750-9756	D	D	D	D	D	D	D
19. Dendritic cell sarcoma	9757-9758	D	D	D	D	D	D	D
20. Immunoproliferative disease, NOS	9760	D	D	D	D	D	D	D
21. Waldenstrom macroglobulinemia	9761	D	D	D	D	D	D	D
22. Heavy chain disease, NOS	9762	D	D	D	D	D	D	D
23. Immunoproliferative small intestinal disease	9764	D	D	D	D	D	D	D
24. Leukemia/Acute leukemia, NOS	9800-9801	S	D	S	S	D	S	S
25. Acute biphenotypic leukemia	9805	S	D	D	D	S	S	S
26. Lymphocytic leukemia, NOS	9820	D	D	D	D	D	D	D
27. BCLL/SLL	9823	D	D	D	D	D	D	D
28. Burkitt cell leukemia	9826	D	D	D	D	D	D	D
29. Adult T-cell leukemia/lymphoma	9827	D	D	D	D	D	D	D
30. Prolymphocytic leukemia, NOS	9832	D	D	D	D	D	D	D
31. Prolymphocytic leukemia, B-cell	9833	D	D	D	D	D	D	D
32. Prolymphocytic leukemia, T-cell	9834	D	D	D	D	D	D	D
33. Precursor cell lymphoblastic leukemia, NOS	9835	D	D	D	D	D	D	D
34. Precursor B-cell lymphoblastic leukemia	9836	D	D	D	D	D	D	D
35. Precursor T-cell lymphoblastic leukemia	9837	D	D	D	D	D	D	D
36. Myeloid leukemias	9840-9910	S	S	S	S	D	S	S
37. Therapy related acute myelogenous leuk.	9920	S	D	D	D	D	S	S
38. Myeloid sarcoma	9930	S	S	S	D	D	S	S
39. Acute panmyelosis	9931	S	D	D	D	D	S	S
40. Hairy cell leukemia	9940	D	D	D	D	D	D	D
41. Chronic myelomonocytic leukemia	9945	S	D	S	D	D	S	S
42. Juvenile myelomonocytic leukemia	9946	S	D	D	D	D	S	S
43. NK-cell leukemia	9948	D	D	D	D	D	D	D
44. Polycythemia vera	9950	S	D	D	D	D	D	D
45. Chronic myeloproliferative disease	9960	S	S	S	D	D	D	D
46. Myeloclerosis	9961	S	S	S	D	D	S	S
47. Essential thrombocythemia	9962	S	S	S	D	D	D	D
48. Chronic neutrophilic leukemia	9963	S	S	S	D	D	D	D
49. Hypereosinophilic syndrome	9964	S	D	D	S	D	D	D
50. Refractory anemias	9980-9986	S	D	D	D	S	S	S
51. Therapy related MDS	9987	S	D	D	D	S	S	S
52. Myelodysplastic syndrome, NOS	9989	S	D	D	D	S	S	S

Key: S = one primary only; D = presumably a subsequent primary SEER Program, NCI. E-mail: seerweb@ims.nci.nih.gov

COMPLETE DIAGNOSTIC TERMS FOR TABLE (BASED ON ICD-O-3)

1	9590	Malignant lymphoma, NOS
2	9591	Malignant lymphoma, non-Hodgkin, NOS
3	9596	Composite Hodgkin and non-Hodgkin lymphoma
4	9650-9667	Hodgkin lymphoma (all subtypes)
5	9670-9671	Malignant lymphoma, small B lymphocytic
6	9673	Mantle cell lymphoma
7	9675-9684	Malignant lymphoma, diffuse large B-cell
8	9687	Burkitt lymphoma
9	9689, 9699	Marginal zone B-cell lymphoma
10	9690-9698	Follicular lymphoma
11	9700-9701	Mycosis fungoides and Sezary syndrome
12	9702-9719	T/NK-cell non-Hodgkin lymphoma
13	9727	Precursor cell lymphoblastic lymphoma, NOS
14	9728	Precursor B-cell lymphoblastic lymphoma
15	9729	Precursor T-cell lymphoblastic lymphoma
16	9731-9734	Plasma cell tumors
17	9740-9742	Mast cell tumors
18	9750-9756	Histiocytosis/Langerhans cell histiocytosis
19	9757-9758	Dendritic cell sarcoma
20	9760	Immunoproliferative disease, NOS
21	9761	Waldenstrom macroglobulinemia
22	9762	Heavy chain disease, NOS
23	9764	Immunoproliferative small intestinal disease
24	9800-9801	Leukemia, NOS/Acute leukemia, NOS
25	9805	Acute biphenotypic leukemia
26	9820	Lymphoid leukemia, NOS
27	9823	B-cell chronic lymphocytic leukemia/small lymphocytic lymphoma
28	9826	Burkitt cell leukemia
29	9827	Adult T-cell leukemia/lymphoma (HTLV-1 positive)
30	9832	Prolymphocytic leukemia, NOS
31	9833	Prolymphocytic leukemia, B-cell type
32	9834	Prolymphocytic leukemia, T-cell type
33	9835	Precursor cell lymphoblastic leukemia, NOS
34	9836	Precursor B-cell lymphoblastic leukemia
35	9837	Precursor T-cell lymphoblastic leukemia
36	9840-9910	Myeloid leukemias
37	9920	Therapy related acute myelogenous leukemia
38	9930	Myeloid sarcoma
39	9931	Acute panmyelosis with myelofibrosis
40	9940	Hairy cell leukemia
41	9945	Chronic myelomonocytic leukemia, NOS
42	9946	Juvenile myelomonocytic leukemia
43	9948	Aggressive NK-cell leukemia
44	9950	Polycythemia vera
45	9960	Chronic myeloproliferative disease, NOS
46	9961	Myelosclerosis with myeloid metaplasia
47	9962	Essential thrombocythemia
48	9963	Chronic neutrophilic leukemia
49	9964	Hypereosinophilic syndrome
50	9980-9986	Refractory anemias
51	9987	Therapy related myelodysplastic syndrome, NOS
52	9989	Myelodysplastic syndrome, NOS

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APPENDIX F: CODING TIPS

Appendix F is under revision and unavailable at this time.

APPENDIX G: SURGERY TREATMENT CODES

DEFINITIONS AND RULES

Additional site-specific definitions and rules may be found with the site-specific codes.

Surgical Procedure of Primary Site

- a. If registry software allows only one procedure to be collected, document the most invasive surgical procedure for the primary site.

If registry software allows multiple procedures to be recorded, "Surgical Procedure of Primary Site" refers to the most invasive surgical procedure of the primary site.

- b. For codes 00 through 79, the code **positions** are hierarchical. The codes' numeric sequence may deviate from the order in which the codes are listed. Last-listed codes take precedence over codes listed above, because:

- 1) Within groups of codes, procedures are listed with increasing degrees of descriptive precision; and
- 2) Succeeding groups of codes define progressively more extensive forms of resection.

Example for RECTOSIGMOID (C19.9): A polypectomy with electrocautery is coded 22.

- 20 Local tumor excision, NOS
- 26 Polypectomy
- 27 Excisional biopsy
- Combination of 20 or 26-27 WITH
 - 21 Photodynamic therapy (PDT)
 - 22 Electrocautery
 - 23 Cryosurgery
 - 24 Laser ablation
 - 25 Laser excision

- c. Use codes 80 and 90 only if more precise information about the surgery is unavailable.
- d. Code 98 applies to specific tumors that cannot be clearly defined in terms of primary or non-primary site. Use code 98 for the following:
- All hematopoietic/reticuloendothelial/immunoproliferative/myeloproliferative disease sites and/or histologies, WITH or WITHOUT surgical treatment;
 - All unknown and ill-defined disease sites, WITH or WITHOUT surgical treatment.

If any surgical treatment was performed on these cancers, assign code 1 in the item, "Surgical Procedure/Other Site."

- e. Biopsies that remove all of the tumor and/or leave only microscopic margins are to be coded in "Surgical Procedure of Primary Site."
- f. Surgery to remove regional tissue or organs is coded in "Surgical Procedure of Primary Site" only if the tissue/organs are removed in continuity with the primary site, except where noted in Appendix G.
- g. If a previous surgical procedure to remove a portion of the primary site is followed by surgery to remove the remainder of the primary site, then code the total or final results. When multiple first course primary site surgical procedures are performed for a single tumor, the most extensive or definitive is the last performed, and the code should represent the cumulative effect of the separate procedures.

ORAL CAVITY (C00.0 – C06.9)

Lip C00.0-C00.9, Base of Tongue C01.9, Other Parts of Tongue C02.0-C02.9, Gum C03.0-C03.9, Floor of Mouth C04.0-C04.9, Palate C05.0-C05.9, Other Parts of Mouth C06.0-C06.9

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

No specimen sent to pathology from surgical events 10-14.

20 Local tumor excision, NOS

26 Polypectomy

27 Excisional biopsy

Any combination of 20 or 26-27 WITH

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

30 Wide excision, NOS

Code 30 includes:

Hemiglossectomy

Partial glossectomy

40 Radical excision of tumor, NOS

41 Radical excision of tumor ONLY

42 Combination of 41 WITH resection in continuity with mandible (marginal, segmental, hemi-, or total resection)

43 Combination of 41 WITH resection in continuity with maxilla (partial, subtotal, or total resection)

Codes 40-43 include:

Total glossectomy

Radical glossectomy

Specimen sent to pathology from surgical events 20-43.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

PAROTID AND OTHER UNSPECIFIED GLANDS (C07.9 – C08.9)**Parotid Gland C07.9, Major Salivary Glands C08.0-C08.9**

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

No specimen sent to pathology from surgical events 10-14.

20 Local tumor excision, NOS

26 Polypectomy

27 Excisional biopsy

Any combination of 20 or 26-27 WITH

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

30 Less than total parotidectomy, NOS; less than total removal of major salivary gland, NOS

31 Facial nerve spared

32 Facial nerve sacrificed

33 Superficial lobe ONLY

34 Facial nerve spared

35 Facial nerve sacrificed

36 Deep lobe (Total)

37 Facial nerve spared

38 Facial nerve sacrificed

40 Total parotidectomy, NOS; total removal of major salivary gland, NOS

41 Facial nerve spared

42 Facial nerve sacrificed

50 Radical parotidectomy, NOS; radical removal of major salivary gland, NOS

51 WITHOUT removal of temporal bone

52 WITH removal of temporal bone

53 WITH removal of overlying skin (requires graft or flap coverage)

80 Parotidectomy, NOS

Specimen sent to pathology from surgical events 20-80.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

PHARYNX (C09.0 – C14.0)

Tonsil C09.0-C09.9, Oropharynx C10.0-C10.9, Nasopharynx C11.0-C11.9, Pyriform Sinus C12.9, Hypopharynx C13.0-C13.9, Pharynx C14.0

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

15 Stripping

No specimen sent to pathology from surgical events 10-15.

20 Local tumor excision, NOS

26 Polypectomy

27 Excisional biopsy

Any combination of 20 or 26-27 WITH

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

28 Stripping

30 Pharyngectomy, NOS

31 Limited/partial pharyngectomy; tonsillectomy, bilateral tonsillectomy

32 Total pharyngectomy

40 Pharyngectomy WITH laryngectomy OR removal of contiguous bone tissue, NOS (does NOT include total mandibular resection)

41 WITH laryngectomy (laryngopharyngectomy)

42 WITH bone

43 WITH both 41 and 42

50 Radical pharyngectomy (includes total mandibular resection), NOS

51 WITHOUT laryngectomy

52 WITH laryngectomy

Specimen sent to pathology from surgical events 20-52.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

ESOPHAGUS (C15.0 – C15.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

No specimen sent to pathology from surgical events 10-14.

20 Local tumor excision, NOS

26 Polypectomy

27 Excisional biopsy

Any combination of 20 or 26-27 WITH

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

30 Partial esophagectomy

40 Total esophagectomy, NOS

50 Esophagectomy, NOS WITH laryngectomy and/or gastrectomy, NOS

51 WITH laryngectomy

52 WITH gastrectomy, NOS

53 Partial gastrectomy

54 Total gastrectomy

55 Combination of 51 WITH any of 52-54

80 Esophagectomy, NOS

Specimen sent to pathology from surgical events 20-80.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

STOMACH (C16.0 – C16.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

No specimen sent to pathology from surgical events 10-14.

20 Local tumor excision, NOS

26 Polypectomy

27 Excisional biopsy

Any combination of 20 or 26-27 WITH

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

30 Gastrectomy, NOS (partial, subtotal, hemi-)

31 Antrectomy, lower (distal - less than 40% of stomach)***

32 Lower (distal) gastrectomy (partial, subtotal, hemi-)

33 Upper (proximal) gastrectomy (partial, subtotal, hemi-)

Code 30 includes:

Partial gastrectomy, including a sleeve resection of the stomach

Billroth I: anastomosis to duodenum (duodenostomy)

Billroth II: anastomosis to jejunum (jejunostomy)

40 Near-total or total gastrectomy, NOS

41 Near-total gastrectomy

42 Total gastrectomy

A total gastrectomy may follow a previous partial resection of the stomach.

50 Gastrectomy, NOS WITH removal of a portion of esophagus

51 Partial or subtotal gastrectomy

52 Near-total or total gastrectomy

Codes 50-52 are used for gastrectomy resection when only portions of esophagus are included in procedure.

60 Gastrectomy with a resection in continuity with the resection of other organs, NOS***

61 Partial or subtotal gastrectomy, in continuity with the resection of other organs ***

62 Near-total or total gastrectomy, in continuity with the resection of other organs ***

63 Radical gastrectomy, in continuity with the resection of other organs ***

Codes 60-63 are used for gastrectomy resections with organs other than esophagus. Portions of esophagus may or may not be included in the resection.

80 Gastrectomy, NOS

Specimen sent to pathology from surgical events 20-80.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

*** Incidental splenectomy NOT included

COLON (C18.0 – C18.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Note

Code removal/surgical ablation of single or multiple liver metastases under the data item *Surgical Procedure/Other Site*.

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

No specimen sent to pathology from surgical events 10-14.

20 Local tumor excision, NOS

27 Excisional biopsy

26 Polypectomy, NOS

28 Polypectomy – endoscopic

29 Polypectomy – surgical excision

Any combination of 20 or 26-29 WITH

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

30 Partial colectomy, segmental resection

32 Plus resection of contiguous organ; example: small bowel, bladder

40 Subtotal colectomy/hemicolectomy (total right or left colon and a portion of transverse colon)

41 Plus resection of contiguous organ; example: small bowel, bladder

50 Total colectomy (removal of colon from cecum to the rectosigmoid junction; may include a portion of the rectum)

51 Plus resection of contiguous organ; example: small bowel, bladder

60 Total proctocolectomy (removal of colon from cecum to the rectosigmoid junction, including the entire rectum)

61 Plus resection of contiguous organ; example: small bowel, bladder

70 Colectomy or coloproctectomy with resection of contiguous organ(s), NOS (where there is not enough information to code 32, 41, 51, or 61)

Code 70 includes: Any colectomy (partial, hemicolectomy, or total) WITH a resection of any other organs in continuity with the primary site. Other organs may be partially or totally removed.

Resection of other organs may include, but are not limited to, oophorectomy, partial proctectomy, rectal mucosectomy, or pelvic exenteration.

80 Colectomy, NOS

Specimen sent to pathology from surgical events 20-80.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

RECTOSIGMOID (C19.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Code removal/surgical ablation of single or multiple liver metastases under the data item *Surgical Procedure/Other Site*.

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser ablation

No specimen sent to pathology from surgical events 10-14.

20 Local tumor excision, NOS

26 Polypectomy

27 Excisional biopsy

Combination of 20 or 26-27 WITH

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

30 Wedge or segmental resection; partial proctosigmoidectomy, NOS

31 Plus resection of contiguous organs; example: small bowel, bladder

Procedures coded 30 include, but are not limited to:

Anterior resection

Hartmann's operation

Low anterior resection (LAR)

Partial colectomy, NOS

Rectosigmoidectomy, NOS

Sigmoidectomy

40 Pull through WITH sphincter preservation (colo-anal anastomosis)

50 Total proctectomy

51 Total colectomy

55 Total colectomy WITH ileostomy, NOS

56 Ileorectal reconstruction

57 Total colectomy WITH other pouch; example: Koch pouch

60 Total proctocolectomy, NOS

65 Total proctocolectomy WITH ileostomy, NOS

66 Total proctocolectomy WITH ileostomy and pouch

Removal of the colon from cecum to the rectosigmoid or a portion of the rectum.

70 Colectomy or proctocolectomy in continuity with other organs; pelvic exenteration

80 Colectomy, NOS; proctectomy, NOS

Specimen sent to pathology from surgical events 20-80.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

Terminology

Duhamel operation: A modification of a pull-through procedure with a longitudinal anastomosis between the proximal ganglionated segment of the colon and the rectum, leaving the rectum functional.

Hartmann's operation: A one-stage resection of primary rectal cancer with colostomy. The lower part of the sigmoid or the upper part of the rectum is resected distal to the neoplasm. The bowel is divided in the region of the descending colon. After the intervening segment of bowel has been removed, the proximal end of the descending colon is brought to the surface, as in a single-barreled colostomy. The proximal end of the distal segment is oversewn and left in place, leaving a blind rectal pouch.

Miles' operation: An abdominoperineal resection for cancer of the lower sigmoid and rectum, which includes permanent colostomy; removal of the pelvic colon, mesocolon, and adjacent lymph nodes; and wide perineal excision of the rectum and anus.

Pull-through operation: Permits removal of the desired portion of bowel (may include rectum, sigmoid, and, when indicated, descending colon and part of transverse colon) in one stage with retained sphincters, and end-to-end anastomosis. This operation is performed largely through the abdomen and does not require resection or removal of any part of the bony pelvis.

Swenson's operation: A pull-through resection with sphincter preservation.

Swenson's procedure: An abdomino-anal pull-through resection with partial internal sphincterectomy.

RECTUM (C20.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Code removal/surgical ablation of single or multiple liver metastases under the data item *Surgical Procedure/Other Site*.

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

No specimen sent to pathology from surgical events 10-14.

20 Local tumor excision, NOS

27 Excisional biopsy

26 Polypectomy

Any combination of 20 or 26-27 WITH

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

28 Curette and fulguration

30 Wedge or segmental resection; partial proctectomy, NOS

Procedures coded 30 include, but are not limited to:

Anterior resection

Hartmann's operation

Low anterior resection (LAR)

Transsacral rectosigmoidectomy

Total mesorectal excision (TME)

40 Pull through WITH sphincter preservation (coloanal anastomosis)

50 Total proctectomy

Procedures coded 50 include but are not limited to:

Abdominoperineal resection (Miles' procedure)

60 Total proctocolectomy, NOS

70 Proctectomy or proctocolectomy with resection in continuity with other organs; pelvic exenteration

80 Proctectomy, NOS

Specimen sent to pathology from surgical events 20-80.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

Terminology

Duhamel operation: A modification of a pull-through procedure with a longitudinal anastomosis between the proximal ganglionated segment of the colon and the rectum, leaving the rectum functional.

Hartmann's operation: A one-stage resection of primary rectal cancer with colostomy. The lower part of the sigmoid or the upper part of the rectum is resected distal to the neoplasm. The bowel is divided in the region of the descending colon. After the intervening segment of bowel has been removed, the proximal end of the descending colon is brought to the surface, as in a single-barreled colostomy. The proximal end of the distal segment is oversewn and left in place, leaving a blind rectal pouch.

Miles' operation: An abdominoperineal resection for cancer of the lower sigmoid and rectum, which includes permanent colostomy; removal of the pelvic colon, mesocolon, and adjacent lymph nodes; and wide perineal excision of the rectum and anus.

Pull-through operation: Permits removal of the desired portion of bowel (may include rectum, sigmoid, and, when indicated, descending colon and part of transverse colon) in one stage with retained sphincters, and end-to-end anastomosis. This operation is performed largely through the abdomen and does not require resection or removal of any part of the bony pelvis.

Swenson's operation: A pull-through resection with sphincter preservation.

Swenson's procedure: An abdomino-anal pull-through resection with partial internal sphincterectomy.

ANUS (C21.0 – C21.8)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

15 Thermal ablation

No specimen sent to pathology from surgical events 10-15.

20 Local tumor excision, NOS

26 Polypectomy

27 Excisional biopsy

Any combination of 20 or 26-27 WITH

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

60 Abdominal perineal resection, NOS (APR; Miles' procedure)

61 APR and sentinel node excision

62 APR and unilateral inguinal lymph node dissection

63 APR and bilateral inguinal lymph node dissection

The lymph node dissection should also be coded under *Scope of Regional Lymph Node Surgery* or *Scope of Regional Lymph Node Surgery at This Facility*.

Specimen sent to pathology from surgical events 20-63.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

LIVER AND INTRAHEPATIC BILE DUCTS (C22.0 – C22.1)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

15 Alcohol (Percutaneous Ethanol Injection - PEI)

16 Heat-Radio-frequency Ablation (RFA)

17 Other (ultrasound, acetic acid)

No specimen sent to pathology from surgical events 10-17.

20 Wedge resection or segmental resection, NOS

21 Wedge resection

22 Segmental resection, NOS

23 One

24 Two

25 Three

26 Segmental resection AND local tumor destruction

30 Lobectomy, NOS

36 Right lobectomy

37 Left lobectomy

38 Lobectomy AND local tumor destruction

50 Extended lobectomy, NOS (extended: resection of single lobe plus a segment of another lobe)

51 Right lobectomy

52 Left lobectomy

59 Extended lobectomy AND local tumor destruction

60 Hepatectomy, NOS

61 Total hepatectomy and transplant

65 Excision of a bile duct (for an intrahepatic bile duct primary only)

66 Excision of an intrahepatic bile duct PLUS partial hepatectomy

75 Extrahepatic bile duct and hepatectomy WITH transplant

Specimen sent to pathology from surgical events 20-75.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

PANCREAS (C25.0 – C25.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

- 00 None; no surgery of primary site; autopsy ONLY
- 25 Local excision of tumor, NOS
- 30 Partial pancreatectomy, NOS; example: distal
- 35 Local or partial pancreatectomy and duodenectomy
 - 36 WITHOUT distal/partial gastrectomy
 - 37 WITH partial gastrectomy (Whipple)
- 40 Total pancreatectomy
- 60 Total pancreatectomy and subtotal gastrectomy or duodenectomy
- 70 Extended pancreatoduodenectomy
- 80 Pancreatectomy, NOS
- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

LARYNX (C32.0 – C32.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

15 Stripping

No specimen sent to pathology from surgical events 10-15

20 Local tumor excision, NOS

26 Polypectomy

27 Excisional biopsy

Any combination of 20 or 26-27 WITH

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

28 Stripping

30 Partial excision of the primary site, NOS; subtotal/partial laryngectomy, NOS; hemilaryngectomy, NOS

31 Vertical laryngectomy

32 Anterior commissure laryngectomy

33 Supraglottic laryngectomy

40 Total or radical laryngectomy, NOS

41 Total laryngectomy ONLY

42 Radical laryngectomy ONLY

50 Pharyngolaryngectomy

80 Laryngectomy, NOS

Specimen sent to pathology from surgical events 20-80.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

Terminology (Robbins et al. 1991):

A radical neck dissection includes the removal of all ipsilateral cervical lymph node groups, i.e., lymph nodes from levels I through V (submental, submandibular, cranial jugular, medial jugular, caudal jugular, dorsal cervical nodes along the accessory nerve, and supraclavicular), and removal of the spinal accessory nerve, internal jugular vein and sternocleidomastoid muscle.

In a modified radical neck dissection the same lymph nodes are removed as in a radical neck dissection; however, one or more non-lymphatic structures are preserved.

A selective neck dissection is neck dissection with preservation of one or more lymph nodes group routinely removed in radical neck dissection.

LUNG (C34.0 – C34.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

- 00 None; no surgery of primary site; autopsy ONLY
- 19 Local tumor destruction or excision, NOS
Unknown whether a specimen was sent to pathology for surgical events coded 19 (principally for cases diagnosed prior to January 1, 2003).
- 15 Local tumor destruction, NOS
 12 Laser ablation or cryosurgery
 13 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)
No specimen sent to pathology from surgical events 12-13 and 15.
- 20 Excision or resection of less than one lobe, NOS
 23 Excision, NOS
 24 Laser excision
 25 Bronchial sleeve resection ONLY
 21 Wedge resection
 22 Segmental resection, including lingulectomy
- 30 Resection of lobe or bilobectomy, but less than the whole lung (partial pneumonectomy, NOS)
 33 Lobectomy WITH mediastinal lymph node dissection
The lymph node dissection should also be coded under *Scope of Regional Lymph Node Surgery* or *Scope of Regional Lymph Node Surgery at This Facility*.
- 45 Lobe or bilobectomy extended, NOS
 46 WITH chest wall
 47 WITH pericardium
 48 WITH diaphragm
- 55 Pneumonectomy, NOS
 56 WITH mediastinal lymph node dissection (radical pneumonectomy)
The lymph node dissection should also be coded under *Scope of Regional Lymph Node Surgery* or *Scope of Regional Lymph Node Surgery at This Facility*.
- 65 Extended pneumonectomy
 66 Extended pneumonectomy plus pleura or diaphragm
- 70 Extended radical pneumonectomy
The lymph node dissection should also be coded under *Scope of Regional Lymph Node Surgery* or *Scope of Regional Lymph Node Surgery at This Facility*.
- 80 Resection of lung, NOS
- Specimen sent to pathology from surgical events 20-80.**
- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

HEMATOPOIETIC/RETICULOENDOTHELIAL/IMMUNOPROLIFERATIVE/MYELOPROLIFERATIVE DISEASE (C42.0, C42.1, C42.3, C42.4)

C42.0, C42.1, C42.3, C42.4 (with any histology) or

M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992 (with any site)

Code

98 All hematopoietic/reticuloendothelial/immunoproliferative/myeloproliferative disease sites and/or histologies, WITH or WITHOUT surgical treatment.

Surgical procedures for hematopoietic/reticuloendothelial/immunoproliferative/myeloproliferative primaries are to be recorded using the data item *Surgical Procedure/Other Site* or *Surgical Procedure/Other Site at This Facility*.

BONES, JOINTS, AND ARTICULAR CARTILAGE (40.0 – C41.9)
PERIPHERAL NERVES AND AUTONOMIC NERVOUS SYSTEM (C47.0 – C47.9)
CONNECTIVE, SUBCUTANEOUS, AND OTHER SOFT TISSUES (C49.0 – C49.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

19 Local tumor destruction or excision, NOS

Unknown whether a specimen was sent to pathology for surgical events coded 19 (principally for cases diagnosed prior to January 1, 2003).

15 Local tumor destruction

No specimen sent to pathology from surgical event 15.

25 Local excision

26 Partial resection

30 Radical excision or resection of lesion WITH limb salvage

40 Amputation of limb

41 Partial amputation of limb

42 Total amputation of limb

50 Major amputation, NOS

51 Forequarter, including scapula

52 Hindquarter, including ilium/hip bone

53 Hemipelvectomy

54 Internal hemipelvectomy

Specimen sent to pathology from surgical events 25-54.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

SPLEEN (C42.2)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

19 Local tumor destruction or excision, NOS.

Unknown whether a specimen was sent to pathology for surgical events coded 19 (principally for cases diagnosed prior to January 1, 2003).

21 Partial splenectomy

22 Total splenectomy

80 Splenectomy, NOS

Specimen sent to pathology from surgical events 21-80.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

SKIN (C44.0 – C44.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser ablation

No specimen sent to pathology from surgical events 10-14.

20 Local tumor excision, NOS

26 Polypectomy

27 Excisional biopsy

Any combination of 20 or 26-27 WITH

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

30 Biopsy of primary tumor followed by a gross excision of the lesion (does not have to be done under the same anesthesia)

31 Shave biopsy followed by a gross excision of the lesion

32 Punch biopsy followed by a gross excision of the lesion

33 Incisional biopsy followed by a gross excision of the lesion

34 Mohs' surgery, NOS

35 Mohs' with 1-cm margin or less

36 Mohs' with more than 1-cm margin

45 Wide excision or re-excision of lesion or minor (local) amputation with margins more than 1 cm, NOS. Margins MUST be microscopically negative.

46 WITH margins more than 1 cm and less than or equal to 2 cm

47 WITH margins greater than 2 cm

If the excision does not have clinically negative margins greater than 1 cm, use the appropriate code, 20-36.

60 Major amputation

Specimen sent to pathology from surgical events 20-60 .

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

BREAST (C50.0 – C50.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

19 Local tumor destruction, NOS

No specimen was sent to pathology for surgical events coded 19 (principally for cases diagnosed prior to January 1, 2003).

20 Partial mastectomy, NOS; less than total mastectomy, NOS

21 Partial mastectomy WITH nipple resection

22 Lumpectomy or excisional biopsy

23 Re-excision of the biopsy site for gross or microscopic residual disease

24 Segmental mastectomy (including wedge resection, quadrantectomy, tylectomy)

Procedures coded as 20-24 remove gross primary tumor and some of the breast tissue (breast-conserving or preserving). There may be microscopic residual tumor.

30 Subcutaneous mastectomy

A subcutaneous mastectomy, also called a nipple sparing mastectomy, is the removal of breast tissue without the nipple and areolar complex or overlying skin. It is performed to facilitate immediate breast reconstruction. Cases coded 30 may be considered to have undergone breast reconstruction.

40 Total (simple) mastectomy

41 WITHOUT removal of uninvolved contralateral breast

43 With reconstruction, NOS

44 Tissue

45 Implant

46 Combined (Tissue and Implant)

42 WITH removal of uninvolved contralateral breast

47 With reconstruction, NOS

48 Tissue

49 Implant

75 Combined (Tissue and Implant)

A total (simple) mastectomy removes all breast tissue, the nipple, and areolar complex. An axillary dissection is not done, but sentinel lymph nodes may be removed.

For single primaries only, code removal of involved contralateral breast under the data item *Surgical Procedure/Other Site* or *Surgical Procedure/Other Site at This Facility*.

If contralateral breast reveals a second primary, each breast is abstracted separately. The surgical procedure is coded 41 for the first primary. The surgical code for the contralateral breast is coded to the procedure performed on that site.

Reconstruction that is planned as part of first course treatment is coded 43-46, 47-49, or 75; whether it is done at the time of mastectomy or later.

76 Bilateral mastectomy for a single tumor involving both breasts, as for bilateral inflammatory carcinoma

50 Modified radical mastectomy

51 WITHOUT removal of uninvolved contralateral breast

53 With reconstruction, NOS

54 Tissue

55 Implant

- 56 Combined (Tissue and Implant)
- 52 WITH removal of uninvolved contralateral breast
 - 57 With reconstruction, NOS
 - 58 Tissue
 - 59 Implant
 - 63 Combined (Tissue and Implant)

Removal of all breast tissue, the nipple, the areolar complex, and variable amounts of breast skin in continuity with the axilla. The specimen may or may not include a portion of the pectoralis major muscle.

If contralateral breast reveals a second primary, it is abstracted separately. The surgical procedure is coded 51 for the first primary. The surgical code for the contralateral breast is coded to the procedure performed on that site.

For single primaries only, code removal of involved contralateral breast under the data item *Surgical Procedure/Other Site* or *Surgical Procedure/Other Site at This Facility*.

- 60 Radical mastectomy, NOS
 - 61 WITHOUT removal of uninvolved contralateral breast
 - 64 With reconstruction, NOS
 - 65 Tissue
 - 66 Implant
 - 67 Combined (Tissue and Implant)
 - 62 WITH removal of uninvolved contralateral breast
 - 68 With reconstruction, NOS
 - 69 Tissue
 - 73 Implant
 - 74 Combined (Tissue and Implant)
- 70 Extended radical mastectomy
 - 71 WITHOUT removal of uninvolved contralateral breast
 - 72 WITH removal of uninvolved contralateral breast

- 80 Mastectomy, NOS

Specimen sent to pathology for surgical events coded 20-80.

- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

Terminology

Halsted radical mastectomy: An en bloc resection of the entire breast and skin; pectoralis major and minor muscles; and contents of the axilla.

Patey's and Dyson's operations: Modified radical mastectomies with removal of the breast, pectoralis minor muscle, and axillary contents. The pectoralis major muscle remains intact.

Urban's extended radical mastectomy: Radical mastectomy and excision of internal mammary nodes.

CERVIX UTERI (C53.0 – C53.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

For invasive cancers, dilatation and curettage is coded as an incisional biopsy (02) under the data item *Surgical Diagnostic and Staging Procedure*.

Codes

00 None; no surgery of primary site, autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

15 Loop Electrocautery Excision Procedure (LEEP)

16 Laser ablation

17 Thermal ablation

No specimen sent to pathology from surgical events 10-17.

20 Local tumor excision, NOS

26 Excisional biopsy, NOS

27 Cone biopsy

24 Cone biopsy WITH gross excision of lesion

29 Trachelectomy; removal of cervical stump; cervicectomy

Any combination of 20, 24, 26, 27, or 29 WITH

21 Electrocautery

22 Cryosurgery

23 Laser ablation or excision

25 Dilatation and curettage; endocervical curettage (for in situ only)

28 Loop Electrocautery Excision Procedure (LEEP)

30 Total hysterectomy (simple, pan-) WITHOUT removal of tubes and ovaries

Total hysterectomy removes both the corpus and cervix uteri and may also include a portion of vaginal cuff.

40 Total hysterectomy (simple, pan-) WITH removal of tubes and/or ovary

Total hysterectomy removes both the corpus and cervix uteri and may also include a portion of vaginal cuff.

50 Modified radical or extended hysterectomy; radical hysterectomy; extended radical hysterectomy

51 Modified radical hysterectomy

52 Extended hysterectomy

53 Radical hysterectomy; Wertheim's procedure

54 Extended radical hysterectomy

60 Hysterectomy, NOS, WITH or WITHOUT removal of tubes and ovaries

61 WITHOUT removal of tubes and ovaries

62 WITH removal of tubes and ovaries

- 70 Pelvic exenteration
 - 71 Anterior exenteration
Includes bladder, distal ureters, and genital organs WITH their ligamentous attachments and pelvic lymph nodes.
 - 72 Posterior exenteration
Includes rectum and rectosigmoid WITH ligamentous attachments and pelvic lymph nodes.
 - 73 Total exenteration
Includes removal of all pelvic contents and pelvic lymph nodes.
 - 74 Extended exenteration
Includes pelvic blood vessels or bony pelvis

Specimen sent to pathology from surgical events 20-74.

- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

Terminology

Wertheim's operation: A radical abdominal hysterectomy for cancer of the cervix and uterus. The uterus and as much of the parametrial tissue as possible are removed, as well as a wide margin of the vagina.

CORPUS UTERI (C54.0 – C55.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

For invasive cancers, dilatation and curettage is coded as an incisional biopsy (02) under the data item *Surgical Diagnostic and Staging Procedure*.

Codes

00 None; no surgery of primary site; autopsy ONLY

19 Local tumor destruction or excision, NOS

Unknown whether a specimen was sent to pathology for surgical events coded 19 (principally for cases diagnosed prior to January 1, 2003).

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

15 Loop Electocautery Excision Procedure (LEEP)

16 Thermal ablation

No specimen sent to pathology from surgical events 10-16.

20 Local tumor excision, NOS; simple excision, NOS

24 Excisional biopsy

25 Polypectomy

26 Myomectomy

Any combination of 20 or 24-26 WITH

21 Electrocautery

22 Cryosurgery

23 Laser ablation or excision

30 Subtotal hysterectomy/supracervical hysterectomy/fundectomy WITH or WITHOUT removal of tube(s) and ovary(ies)

31 WITHOUT tube(s) and ovary(ies)

32 WITH tube(s) and ovary(ies)

40 Total hysterectomy (simple, pan-) WITHOUT removal of tube(s) and ovary(ies)

Removes both the corpus and cervix uteri. It may also include a portion of the vaginal cuff.

50 Total hysterectomy (simple, pan-) WITH removal of tube(s) and/or ovary(ies)

Removes both the corpus and cervix uteri. It may also include a portion of the vaginal cuff.

60 Modified radical or extended hysterectomy; radical hysterectomy; extended radical hysterectomy

61 Modified radical hysterectomy

62 Extended hysterectomy

63 Radical hysterectomy; Wertheim's procedure

64 Extended radical hysterectomy

65 Hysterectomy, NOS, WITH or WITHOUT removal of tube(s) and ovary(ies)

66 WITHOUT removal of tube(s) and ovary(ies)

67 WITH removal of tube(s) and ovary(ies)

- 75 Pelvic exenteration
- 76 Anterior exenteration
Includes bladder, distal ureters, and genital organs WITH their ligamentous attachments and pelvic lymph nodes.
- 77 Posterior exenteration
Includes rectum and rectosigmoid WITH ligamentous attachments and pelvic lymph nodes.
- 78 Total exenteration
Includes removal of all pelvic contents and pelvic lymph nodes.
- 79 Extended exenteration
Includes pelvic blood vessels or bony pelvis

Specimen sent to pathology from surgical events 20-79.

- 90 Surgery, NOS
- 99 Unknown if surgery performed; death certificate ONLY

Terminology

Wertheim's operation: A radical abdominal hysterectomy for cancer of the cervix and uterus. The uterus and as much of the parametrial tissue as possible are removed, as well as a wide margin of the vagina.

OVARY (C56.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

- 00 None; no surgery of primary site; autopsy ONLY
- 17 Local tumor destruction, NOS
No specimen sent to pathology from surgical event 17.
- 25 Total removal of tumor or (single) ovary, NOS
26 Resection of ovary (wedge, subtotal, or partial) ONLY, NOS; unknown if hysterectomy done
27 WITHOUT hysterectomy
28 WITH hysterectomy
- 35 Unilateral (salpingo-) oophorectomy; unknown if hysterectomy done
36 WITHOUT hysterectomy
37 WITH hysterectomy
- 50 Bilateral (salpingo-) oophorectomy; unknown if hysterectomy done
51 WITHOUT hysterectomy
52 WITH hysterectomy
- 55 Unilateral or bilateral (salpingo-) oophorectomy WITH OMENTECTOMY, NOS (partial or total); unknown if hysterectomy done
56 WITHOUT hysterectomy
57 WITH hysterectomy
- 60 Debulking; cytoreductive surgery, NOS
61 WITH colon (including appendix) and/or small intestine resection (not incidental)
62 WITH partial resection of urinary tract (not incidental)
63 Combination of 61 and 62
Debulking is a partial or total removal of the tumor mass and can involve the removal of multiple organ sites. It may include removal of ovaries and/or the uterus (a hysterectomy). The pathology report may or may not identify ovarian tissue. A debulking is usually followed by another treatment modality such as chemotherapy.
- 70 Pelvic exenteration, NOS
71 Anterior exenteration
Includes bladder, distal ureters, and genital organs WITH their ligamentous attachments and pelvic lymph nodes.
- 72 Posterior exenteration
Includes rectum and rectosigmoid WITH ligamentous attachments and pelvic lymph nodes.
- 73 Total exenteration
Includes removal of all pelvic contents and pelvic lymph nodes.
- 74 Extended exenteration
Includes pelvic blood vessels or bony pelvis

80 (Salpingo-) oophorectomy, NOS

Specimen sent to pathology from surgical events 25-80.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

PROSTATE (C61.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Do not code an orchiectomy in this field. For prostate primaries, orchiectomies are coded in the data item *Hematologic Transplant and Endocrine Procedures*.

Codes

00 None; no surgery of primary site; autopsy ONLY

18 Local tumor destruction or excision, NOS

19 Transurethral resection (TURP), NOS, and no specimen sent to pathology or unknown if sent

Unknown whether a specimen was sent to pathology for surgical events coded 18 or 19 (principally for cases diagnosed prior to January 1, 2003).

10 Local tumor destruction, NOS

14 Cryoprostatectomy

15 Laser ablation

16 Hyperthermia

17 Other method of local tumor destruction

No specimen sent to pathology from surgical events 10-17.

20 Local tumor excision, NOS

21 Transurethral resection (TURP), NOS, with specimen sent to pathology

22 TURP – cancer is incidental finding during surgery for benign disease

23 TURP – patient has suspected/known cancer

Any combination of 20-23 WITH

24 Cryosurgery

25 Laser

26 Hyperthermia

30 Subtotal, segmental, or simple prostatectomy, which may leave all or part of the capsule intact

50 Radical prostatectomy, NOS; total prostatectomy, NOS

Excised prostate, prostatic capsule, ejaculatory ducts, seminal vesicle(s) and may include a narrow cuff of bladder neck.

70 Prostatectomy WITH resection in continuity with other organs; pelvic exenteration

Surgeries coded 70 are any prostatectomy WITH resection in continuity with any other organs. The other organs may be partially or totally removed. Procedures may include, but are not limited to, cystoprostatectomy, radical cystectomy, and prostatectomy.

80 Prostatectomy, NOS

Specimen sent to pathology from surgical events 20-80.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

TESTIS (C62.0 – C62.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

12 Local tumor destruction, NOS

No specimen sent to pathology from surgical event 12.

20 Local or partial excision of testicle

30 Excision of testicle WITHOUT cord

40 Excision of testicle WITH cord or cord not mentioned (radical orchiectomy)

80 Orchiectomy, NOS (unspecified whether partial or total testicle removed)

Specimen sent to pathology from surgical events 20-80.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

KIDNEY, RENAL PELVIS, AND URETER (C64.9 – C66.9)
Kidney C64.9, Renal Pelvis C65.9, Ureter C66.9

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

15 Thermal ablation

No specimen sent to pathology from surgical events 10-15.

20 Local tumor excision, NOS

26 Polypectomy

27 Excisional biopsy

Any combination of 20 or 26-27 WITH

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

30 Partial or subtotal nephrectomy (kidney or renal pelvis) or partial ureterectomy (ureter)

Procedures coded 30 include, but are not limited to:

Segmental resection

Wedge resection

40 Complete/total/simple nephrectomy – for kidney parenchyma

Nephroureterectomy

Includes bladder cuff for renal pelvis or ureter

50 Radical nephrectomy

May include removal of a portion of vena cava, adrenal gland(s), Gerota's fascia, perinephric fat, or partial/total ureter.

70 Any nephrectomy (simple, subtotal, complete, partial, simple, total, radical) in continuity with the resection of other organ(s) (colon, bladder)

The other organs, such as colon or bladder, may be partially or totally removed.

80 Nephrectomy, NOS

Ureterectomy, NOS

Specimen sent to pathology from surgical events 20-80.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

BLADDER (C67.0 – C67.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

15 Intravesical therapy

16 Bacillus Calmette-Guerin (BCG) or other immunotherapy

Also code the introduction of immunotherapy in the immunotherapy items. If immunotherapy is followed by surgery of the type coded 20-80, code that surgery instead and code the immunotherapy only as immunotherapy.

No specimen sent to pathology from surgical events 10-16.

20 Local tumor excision, NOS

26 Polypectomy

27 Excisional biopsy

Combination of 20 or 26-27 WITH

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

30 Partial cystectomy

50 Simple/total/complete cystectomy

60 Complete cystectomy with reconstruction

61 Radical cystectomy PLUS ileal conduit

62 Radical cystectomy PLUS continent reservoir or pouch, NOS

63 Radical cystectomy PLUS abdominal pouch (cutaneous)

64 Radical cystectomy PLUS in situ pouch (orthotopic)

When the procedure is described as a pelvic exenteration for males, but the prostate is not removed, the surgery should be coded as a cystectomy (code 60-64).

70 Pelvic exenteration, NOS

71 Radical cystectomy including anterior exenteration

For females, includes removal of bladder, uterus, ovaries, entire vaginal wall, and entire urethra.

For males, includes removal of the prostate. When the procedure is described as a pelvic exenteration for males, but the prostate is not removed, the surgery should be coded as a cystectomy (code 60-64).

72 Posterior exenteration

For females, also includes removal of vagina, rectum and anus. For males, also includes prostate, rectum and anus.

73 Total exenteration

Includes all tissue and organs removed for an anterior and posterior exenteration.

74 Extended exenteration

Includes pelvic blood vessels or bony pelvis.

80 Cystectomy, NOS

Specimen sent to pathology from surgical events 20-80.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

**BRAIN AND OTHER PARTS OF CENTRAL NERVOUS SYSTEM (C70.0 – C72.9)
Meninges C70.0-C70.9; Brain C71.0-C71.9; Spinal Cord, Cranial Nerves, and Other Parts of Central Nervous System C72.0-C72.9**

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Do not code laminectomies for spinal cord primaries.

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Tumor destruction, NOS

No specimen sent to pathology from surgical event 10.

Do not record stereotactic radiosurgery (SRS), Gamma knife, Cyber knife, Linac radiosurgery as surgical tumor destruction. All of these modalities are recorded in the radiation treatment fields.

20 Local excision of tumor, lesion or mass; excisional biopsy

21 Subtotal resection of tumor, lesion or mass in brain

22 Resection of tumor of spinal cord or nerve

30 Radical, total, gross resection of tumor, lesion or mass in brain

40 Partial resection of lobe of brain, when the surgery can not be coded as 20-30

55 Gross total resection of lobe of brain (lobectomy)

Codes 30 - 55 are not applicable for spinal cord or spinal nerve primary sites.

Specimen sent to pathology from surgical events 20 - 55.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

THYROID GLAND (C73.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

13 Local tumor destruction, NOS

No specimen sent to pathology from surgical event 13.

25 Removal of less than a lobe, NOS

26 Local surgical excision

27 Removal of a partial lobe ONLY

20 Lobectomy and/or isthmectomy

21 Lobectomy ONLY

22 Isthmectomy ONLY

23 Lobectomy WITH isthmus

30 Removal of a lobe and partial removal of the contralateral lobe

40 Subtotal or near total thyroidectomy

50 Total thyroidectomy

80 Thyroidectomy, NOS

Specimen sent to pathology from surgical events 25-80.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

Terminology (Robbins et al. 1991):

A radical neck dissection includes the removal of all ipsilateral cervical lymph node groups, i.e., lymph nodes from levels I through V (submental, submandibular, cranial jugular, medial jugular, caudal jugular, dorsal cervical nodes along the accessory nerve, and supraclavicular), and removal of the spinal accessory nerve, internal jugular vein and sternocleidomastoid muscle.

In a modified radical neck dissection the same lymph nodes are removed as in a radical neck dissection; however, one or more non-lymphatic structures are preserved.

A selective neck dissection is neck dissection with preservation of one or more lymph nodes group routinely removed in radical neck dissection.

LYMPH NODES (C77.0 – C77.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

- 00 None; no surgery of primary site; autopsy ONLY

- 19 Local tumor destruction or excision, NOS
Unknown whether a specimen was sent to pathology for surgical events coded to 19 (principally for cases diagnosed prior to January 1, 2003).

- 15 Local tumor destruction, NOS
No specimen sent to pathology from surgical event 15.

- 25 Local tumor excision, NOS
Less than a full chain, includes an excisional biopsy of a single lymph node.

- 30 Lymph node dissection, NOS
 - 31 One chain
 - 32 Two or more chains

- 40 Lymph node dissection, NOS PLUS splenectomy
 - 41 One chain
 - 42 Two or more chains

- 50 Lymph node dissection, NOS and partial/total removal of adjacent organ(s)
 - 51 One chain
 - 52 Two or more chains

- 60 Lymph node dissection, NOS and partial/total removal of adjacent organ(s) PLUS splenectomy (Includes staging laparotomy for lymphoma.)
 - 61 One chain
 - 62 Two or more chains

Specimen sent to pathology from surgical events 25-62.

- 90 Surgery, NOS

- 99 Unknown if surgery performed; death certificate ONLY

ALL OTHER SITES

C14.2-C14.8	C31.0-C31.9	C51.0-C51.9	C68.0-C68.9
C17.0-C17.9	C33.9	C52.9	C69.0-C69.9
C23.9	C37.9	C57.0-C57.9	C74.0-C74.9
C24.0-C24.9	C38.0-C38.8	C58.9	C75.0-C75.9
C26.0-C26.9	C39.0-C39.9	C60.0-C60.9	
C30.0-C30.1	C48.0-C48.8	C63.0-C63.9	

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Codes

00 None; no surgery of primary site; autopsy ONLY

10 Local tumor destruction, NOS

11 Photodynamic therapy (PDT)

12 Electrocautery; fulguration (includes use of hot forceps for tumor destruction)

13 Cryosurgery

14 Laser

No specimen sent to pathology from surgical events 10-14.

20 Local tumor excision, NOS

26 Polypectomy

27 Excisional biopsy

Any combination of 20 or 26-27 WITH

21 Photodynamic therapy (PDT)

22 Electrocautery

23 Cryosurgery

24 Laser ablation

25 Laser excision

30 Simple/partial surgical removal of primary site

40 Total surgical removal of primary site; enucleation

41 Total enucleation (for eye surgery only)

50 Surgery stated to be "debulking"

60 Radical surgery

Partial or total removal of the primary site WITH resection in continuity (partial or total removal) with other organs.

Specimen sent to pathology from surgical events 20-60.

90 Surgery, NOS

99 Unknown if surgery performed; death certificate ONLY

UNKNOWN AND ILL-DEFINED PRIMARY SITES (C76.0 – C76.8, C80.9)

(Except for M-9727, 9733, 9741-9742, 9764-9809, 9832, 9840-9931, 9945-9946, 9950-9967, and 9975-9992)

Code

98 All unknown and ill-defined disease sites, WITH or WITHOUT surgical treatment.

Surgical procedures for unknown and ill-defined primaries are to be recorded using the data item Surgical Procedure/Other Site or Surgical Procedure/Other Site at This Facility.

APPENDIX H: FIPS CODES FOR COUNTIES IN STATES ADJOINING INDIANA**State Name:** Illinois**FIPS****Code County**

001	Adams	085	Jo Daviess	169	Schuyler
003	Alexander	087	Johnson		
005	Bond	089	Kane	171	Scott
007	Boone			173	Shelby
009	Brown	091	Kankakee	175	Stark
		093	Kendall	177	Stephenson
011	Bureau	095	Knox	179	Tazewell
013	Calhoun	097	Lake		
015	Carroll	099	La Salle	181	Union
017	Cass			183	Vermilion
019	Champaign	101	Lawrence	185	Wabash
		103	Lee	187	Warren
021	Christian	105	Livingston	189	Washington
023	Clark	107	Logan		
025	Clay	109	McDonough	191	Wayne
027	Clinton			193	White
029	Coles	111	McHenry	195	Whiteside
		113	McLean	197	Will
031	Cook	115	Macon	199	Williamson
033	Crawford	117	Macoupin		
035	Cumberland	119	Madison	201	Winnebago
037	DeKalbt			203	Woodford
039	De Witt	121	Marion		
		123	Marshall		
041	Douglas	125	Mason		
043	DuPage	127	Massac		
045	Edgar	129	Menard		
047	Edwards				
049	Effingham	131	Mercer		
		133	Monroe		
051	Fayette	135	Montgomery		
053	Ford	137	Morgan		
055	Franklin	139	Moultrie		
057	Fulton				
059	Gallatin	141	Ogle		
		143	Peoria		
061	Greene	145	Perry		
063	Grundy	147	Piatt		
065	Hamilton	149	Pike		
067	Hancock				
069	Hardin	151	Pope		
		153	Pulaski		
071	Henderson	155	Putnam		
073	Henry	157	Randolph		
075	Iroquois	159	Richland		
077	Jackson	161	Rock Island		
079	Jasper	163	St. Clair		
081	Jefferson	165	Saline		
083	Jersey	167	Sangamon		

State Name: Kentucky

FIPS

Code County

001	Adair	081	Grant	161	Mason
003	Allen	083	Graves	163	Meade
005	Anderson	085	Grayson	165	Menifee
007	Ballard	087	Green	167	Mercer
009	Barren	089	Greenup	169	Metcalfe
011	Bath	091	Hancock	171	Monroe
013	Bell	093	Hardin	173	Montgomery
015	Boone	095	Harlan	175	Morgan
017	Bourbon	097	Harrison	177	Muhlenberg
019	Boyd	099	Hart	179	Nelson
021	Boyle	101	Henderson	181	Nicholas
023	Bracken	103	Henry	183	Ohio
025	Breathitt	105	Hickman	185	Oldham
027	Breckinridge	107	Hopkins	187	Owen
029	Bullitt	109	Jackson	189	Owsley
031	Butler	111	Jefferson	191	Pendleton
033	Caldwell	113	Jessamine	193	Perry
035	Calloway	115	Johnson	195	Pike
037	Campbell	117	Kenton	197	Powell
039	Carlisle	119	Knott	199	Pulaski
041	Carroll	121	Knox	201	Robertson
043	Carter	123	Larue	203	Rockcastle
045	Casey	125	Laurel	205	Rowan
047	Christian	127	Lawrence	207	Russell
049	Clark	129	Lee	209	Scott
051	Clay	131	Leslie	211	Shelby
053	Clinton	133	Letcher	213	Simpson
055	Crittenden	135	Lewis	215	Spencer
057	Cumberland	137	Lincoln	217	Taylor
059	Daviess	139	Livingston	219	Todd
061	Edmonson	141	Logan	221	Trigg
063	Elliott	143	Lyon	223	Trimble
065	Estill	145	McCracken	225	Union
067	Fayette	147	McCreary	227	Warren
069	Fleming	149	McLean	229	Washington
071	Floyd	151	Madison	231	Wayne
073	Franklin	153	Magoffin	233	Webster
075	Fulton	155	Marion	235	Whitley
077	Gallatin	157	Marshall	237	Wolfe
079	Garrard	159	Martin	239	Woodford

State Name: Michigan**FIPS****Code County**

001	Alcona	081	Kent	161	Washtenaw
003	Alger	083	Keweenaw	163	Wayne
005	Allegan	085	Lake	165	Wexford
007	Alpena	087	Lapeer		
009	Antrim	089	Leelanau		
011	Arenac	091	Lenawee		
013	Baraga	093	Livingston		
015	Barry	095	Luce		
017	Bay	097	Mackinac		
019	Benzie	099	Macomb		
021	Berrien	101	Manistee		
023	Branch	103	Marquette		
025	Calhoun	105	Mason		
027	Cass	107	Mecosta		
029	Charlevoix	109	Menominee		
031	Cheboygan	111	Midland		
033	Chippewa	113	Missaukee		
035	Clare	115	Monroe		
037	Clinton	117	Montcalm		
039	Crawford	119	Montmorency		
041	Delta	121	Muskegon		
043	Dickinson	123	Newaygo		
045	Eaton	125	Oakland		
047	Emmet	127	Oceana		
049	Genesee	129	Ogemaw		
051	Gladwin	131	Ontonagon		
053	Gogebic	133	Osceola		
055	Grand Traverse	135	Oscoda		
057	Gratiot	137	Otsego		
059	Hillsdale	139	Ottawa		
061	Houghton	141	Presque Isle		
063	Huron	143	Roscommon		
065	Ingham	145	Saginaw		
067	Ionia	147	St. Clair		
069	Iosco	149	St. Joseph		
071	Iron	151	Sanilac		
073	Isabella	153	Schoolcraft		
075	Jackson	155	Shiawassee		
077	Kalamazoo	157	Tuscola		
079	Kalkaska	159	Van Buren		

State Name: Ohio

FIPS**Code County**

001	Adams	081	Jefferson	161	Van Wert
003	Allen	083	Knox	163	Vinton
005	Ashland	085	Lake	165	Warren
007	Ashtabula	087	Lawrence	167	Washington
009	Athens	089	Licking	169	Wayne
011	Auglaize	091	Logan	171	Williams
013	Belmont	093	Lorain	173	Wood
015	Brown	095	Lucas	175	Wyandot
017	Butler	097	Madison		
019	Carroll	099	Mahoning		
021	Champaign	101	Marion		
023	Clark	103	Medina		
025	Clermont	105	Meigs		
027	Clinton	107	Mercer		
029	Columbiana	109	Miami		
031	Coshocton	111	Monroe		
033	Crawford	113	Montgomery		
035	Cuyahoga	115	Morgan		
037	Darke	117	Morrow		
039	Defiance	119	Muskingum		
041	Delaware	121	Noble		
043	Erie	123	Ottawa		
045	Fairfield	125	Paulding		
047	Fayette	127	Perry		
049	Franklin	129	Pickaway		
051	Fulton	131	Pike		
053	Gallia	133	Portage		
055	Geauga	135	Preble		
057	Greene	137	Putnam		
059	Guernsey	139	Richland		
061	Hamilton	141	Ross		
063	Hancock	143	Sandusky		
065	Hardin	145	Scioto		
067	Harrison	147	Seneca		
069	Henry	149	Shelby		
071	Highland	151	Stark		
073	Hocking	153	Summit		
075	Holmes	155	Trumbull		
077	Huron	157	Tuscarawas		
079	Jackson	159	Union		

GLOSSARY OF REGISTRY TERMS

Terms in *italics* are defined within this glossary.

Abbreviations Meaning

adj.	adjective
e.g.	for example
i.e.	that is
n.	noun
pl.	plural
v.	verb

A

abstract. n. A summary, abridgement, or abbreviated record of pertinent information about a patient, the *cancer*, the *cancer-directed treatment*, and the outcome; the form or computer screen used to collect such information for each case. v. The act of collecting and recording cancer information from a health record.

accession. v. To enter a *case* into a *cancer registry* and assign it a number.

accession number. A unique 9-digit number assigned to the patient by the *registrar* indicating the year in which the patient was first seen for *cancer* at the reporting institution (first four digits) and the sequential order in which the patient was identified by the registry or *abstracted* into the database (last five digits). The number is used for all additional *primaries* the patient may develop, regardless of the year in which subsequent reportable *tumors* occur.

accession register. An annual, sequential listing of all reportable cases included in the *registry*. The accession register must include the *accession/sequence* number, patient name, *primary site*, and *date of initial diagnosis*. In a manual *registry*, it may be useful to include the *class of case* category. The accession register serves to identify, count, and evaluate the annual caseload.

acinus (pl. acini). A small saclike dilatation, particularly one found in various glands; synonymous with alveolus.

ACoS. American College of Surgeons.

ACS. American Cancer Society.

adenocarcinoma. A carcinoma derived from glandular tissue or in which the cells are arranged in the form of glands; a *malignant adenoma*.

adenocarcinoma in an adenomatous polyp. *Adenocarcinoma* in a glandular polyp of the colon.

adenoma. A *benign* epithelial *tumor* with a gland-like structure or in which the cells are clearly derived from glandular epithelium.

adjunct. An accessory or auxiliary agent or measure used in the *treatment* of disease or in other procedures.

adjuvant therapy. A treatment modality given in conjunction with another treatment modality, such as adjuvant *chemotherapy* given after *surgery* or *radiation* has destroyed the clinically detectable *cancer* cells, to prevent or delay *recurrence*.

adrenalectomy. Excision of adrenal glands.

adrenocorticotrophic hormone (ACTH). A hormone that acts primarily on the adrenal cortex, stimulating its growth and its secretion of corticosteroids.

age specific rate. An incidence rate derived from analysis of data collected for a specific age group.

AJCC. American Joint Committee on Cancer.

allogenic cells. Cells belonging to or obtained from the same species but that are genetically different.

alphabetic. A term used to describe a data field that will accept letters only.

alphanumeric. A term used to describe a data field that will accept either letters or numbers but no special characters.

analytic case. A cancer case diagnosed and/or receiving all or part of the *first course* of treatment at the reporting facility. Analytic cases are eligible for inclusion in that registry's statistical reports of treatment efficacy and survival.

anaplasia. Reversion of cells to a more primitive or less differentiated form, a characteristic of *malignant tumors*; also called dedifferentiation.

anastomosis. A union or connection between two normally separate spaces or organs; typically used in describing a surgical connection between segments in the colon.

anatomic site. The place, position or location within the anatomy or structure of the organism.

ancillary drugs. Medications that enhance the effects of the *cancer-directed treatment* but do not directly affect the *cancer*. Ancillary drugs are not to be coded as cancer-directed treatment.

annual report. A publication produced on a yearly basis that describes the activities of an organization. For a *cancer* program, the report also includes statistics on the types of cancer diagnosed and treated at the facility.

autopsy. Postmortem *pathologic* examination of a body. Autopsy reports are used in *casefinding*.

B

basal cell. The predominant cell of the deepest layer of the epidermis.

basement membrane. A sheet of extracellular material interposed between cellular elements and underlying connective tissue. The sheet functions as a filtration barrier and a boundary that helps to generate and maintain tissue structure. In skin, it is the layer called basal lamina that marks the junction of the dermis and epidermis.

beam radiation. Radiation administered from an external source that may be either x-ray or cobalt.

behavior. Description of how a *tumor* acts in terms of whether it is *benign*, *noninvasive*, *malignant*, or *metastatic*.

benign. Not *malignant*; not *recurrent*; favorable for recovery.

bilateral organs. Organs that occur as pairs, having a corresponding part on each side of the body.

biologic response modifier therapy. See *immunotherapy*.

biopsy. The removal of tissue for microscopic examination performed to establish a *diagnosis* and the characteristics of the *cancer*.

biostatistics. The application of statistics to the analysis of biological and medical data.

blastoma. A *neoplasm* composed of embryonic cells.

blood dyscrasia. A disease or *pathologic* condition of the blood.

bone marrow transplant. A type of treatment in which the patient's bone marrow is destroyed or reduced with high-dose *chemotherapy*, with or without total body irradiation, after which bone marrow is returned to the body to restore marrow and immune system function.

borderline neoplasm. A *tumor* with a *behavior* type that cannot be determined to be completely *benign*, yet which does not meet all criteria for *malignancy*.

Bowen disease. A squamous cell *carcinoma in situ* occurring usually on sun-exposed areas of skin, but sometimes found on mucous membranes; also called Bowen *precancerous* dermatosis and precancerous dermatitis.

brachytherapy. A type of *radiation therapy* where the radiation source is placed in direct contact with the *tumor*; for example, *cesium* capsules inserted into the uterus for treatment of endometrial *cancer*.

BRM. *Biological Response Modifier*; see *immunotherapy*.

C

CA. Cancer.

cancer. A cellular *tumor* exhibiting the characteristics of *anaplasia* and *invasion* and the potential for *metastasis*.

cancer-directed treatment (or therapy). *Treatment* that is *tumor* directed. Its purpose is to modify, control, remove, or destroy primary or *metastatic* cancer tissue; excludes treatment solely for the relief of symptoms.

cancer (or tumor) registrar. An individual employed by a hospital or other institution for the purpose of recording, *abstracting*, and coding *cancer cases*. A cancer registrar collects and stores information on cancer patients, conducts periodic follow-up on these patients, and prepares reports on the data collected.

cancer (or tumor) registry. A data system designed for the collection, management, and analysis of data on persons with the *diagnosis* of a *malignant* disease (cancer).

carcinoma. A *malignant tumor* of epithelial origin.

carcinomatosis. Invasion of many organs of the body at the same time by *metastases*.

case. An occurrence of a *primary site* of a reportable *cancer*. One patient with two primary cancers represents two cases. See Chapter 3 and Appendix B for the State Cancer Registry's *reportable list*.

casefinding. Systematic identification of all reportable *cancer* cases in a defined population, such as patients of a hospital or patients seen in a physician's office; also called case ascertainment.

Caucasian. Of or relating to the white race as defined by law.

cautery. The application of an agent which destroys tissue by burning or searing.

CDC. Centers for Disease Control and Prevention.

cesium. A metallic element used in isotopic form as a *radiation* source for *cancer-directed treatment*.

chemotherapy. *Treatment* by administration of a chemical or drug that inhibits the reproduction of *cancer* cells and that does not achieve its effect through change of the hormone balance.

class of case. A registry term describing whether a case is *analytic* or *nonanalytic* based on where the initial *diagnosis* and *treatment* of the patient occurs.

clinical case. A *cancer case* for which the *diagnosis* is not *microscopically confirmed*.

cluster. An aggregation of cases of a disease or other health-related condition which are closely grouped in time and place.

CoC. Commission on Cancer of the American College of Surgeons.

code. Alphabetic and/or numeric characters representing information in a data set or report.

colposcope. A speculum for examining the vagina and cervix.

comedocarcinoma. A type of ductal breast *carcinoma* whose central cells are degenerated and easily expressed from the cut surface of the *tumor*.

computerized axial tomography (CT or CAT). A *radiographic* method of examining the body by creating an image from cross-sectional computerized "slices" of tissue. The computer calculates the degree of multiple x-ray beams that are not absorbed by all the tissue in its path and creates a computer image showing the geography and characteristics of tissue structures within solid organs.

confidentiality. The concept of maintaining the privacy of personal information obtained in the process of work.

consultation. Advice and counsel given about a patient by a physician who provides no *treatment* to that patient.

contiguous. Adjacent, touching, in contact with.

contralateral. Situated on or pertaining to the opposite side.

core data set. See *required data set*.

cryosurgery. Destruction of tissue by selective application of extreme cold.

CTR. Certified Tumor Registrar.

-cyte, cyto- Greek combining forms meaning pertaining to a cell.

cytology. The study of cells, their origin, structure, function, and *pathology*; the *microscopic* examination of cells obtained by aspirations, washings, scrapings, and *smears*.

D

DAM. *Data Acquisition Manual* (from the Commission on Cancer, ACoS), revised September 1994.

date of first recurrence. The point (month, day, and year) a *cancer* reappears after a disease-free interval.

date of initial diagnosis. The first time (month, day, year) that a recognized medical practitioner states that a patient has *cancer*, usually the date of first positive *tissue specimen*, although the first *diagnosis* can be *clinical* and may never be confirmed by *histology*.

date of last contact. The most recent point (month, day, and year) that a patient's vital status is known.

death rate. The number of deaths occurring over a given period of time divided by the number of persons at risk of dying during the same time period; also called *mortality rate*.

debulking. The surgical removal of as much *tumor* as possible, with or without total removal of the primary tumor, so that *adjuvant therapy* will be more effective; also called *cytoreductive surgery*.

definitive treatment. See *cancer-directed treatment*.

demography. The study of populations, especially with reference to size and density, fertility, mortality, growth, age distribution, migration, and vital statistics, and the interaction of all these with social and economic conditions.

derm-. Greek combining form meaning pertaining to skin.

diagnosis (pl. diagnoses). The identification of the presence, nature, and extent of a disease.

diagnostic (or disease) index. A listing of diagnoses for patients diagnosed or treated during a given time period. The listing is arranged in diagnostic groupings according to a specific coding system. The index is a source for *cancer casefinding*.

differentiation. The degree to which a *tumor* resembles the normal tissue from which it arose; also called *grade*. Differentiation reflects the aggressiveness of the tumor.

direct extension. A term used in *staging* to indicate *contiguous* growth of *tumor* from the *primary site* into an adjacent organ or surrounding tissue.

direct visualization. *Gross observation* of a *cancer* mass usually made at the time of *surgery* or *autopsy*.

disease free. Absence of any detectable *cancer* (including *recurrence* over a specified period of time).

dissection. The act of cutting apart or separating tissue.

disseminated. Scattered; distributed over a considerable area; in registry terms, describes a *tumor* that has spread throughout the body. Some tumors, such as *leukemias*, are disseminated at diagnosis. Others become disseminated as the result of *metastasis*.

distant. A term describing *stage of disease* for a *malignant neoplasm* that has spread to parts of the body remote from the primary tumor either by direct extension (beyond immediately adjacent organs or tissues) or by discontinuous *metastasis* (e.g., implantation or seeding) to distant organs, tissues, or via the lymphatic system to distant lymph nodes. Stage of disease for all *leukemias* and *multiple myelomas* is distant.

E

-ectomy. Suffix meaning *excision* or cutting out of an organ or part.

edit check. Computerized comparison of data fields for logic and accuracy.

en bloc resection. The removal of organs in one piece at one time.

endocrine surgery. Removal of an endocrine gland to stop growth of a *cancer* in another organ, when the hormonal product of the endocrine gland is implicated in the growth of the *tumor*; e.g., *orchiectomy* performed for cancer of the prostate.

endocrine therapy. See *hormone therapy*.

endoscopy. The visual inspection of any body cavity with an endoscope, an instrument for the examination of the interior of a hollow organ.

endothelium. The layer of epithelial cells that lines the cavities of the heart, blood and lymph vessels, serous cavities, and wall linings of hollow organs.

end results. The evaluation of *cancer treatment* through the analysis of patient *survival* after treatment.

EOD. *Extent of disease*.

excision. The act of removing, as of an organ or *tumor*, by cutting.

excisional biopsy. Surgical removal of an entire small *tumor*, for whatever purpose; a *biopsy*, performed to identify the cell type of the tumor, that removes the entire tumor.

exenteration. Surgical removal of the inner organs; the term is commonly used to indicate radical *excision* of the contents of a body cavity, as of the pelvis.

exfoliative cytology. *Microscopic* examination of cells shed from a body surface as a means of detecting *malignant* change.

extended data set. See *optional data set*.

extent of disease. Detailed description of how far the disease has spread from the *primary site* of a *cancer* at the time of *diagnosis*.

F

first course. The initial planned course of *treatment* or *therapy* for a specific *cancer*. Such treatment is typically initiated within four months following *diagnosis*, but may be initiated later than four months post-diagnosis (e.g., *consultation* irradiation given after completion of *chemotherapy*).

flag. In *registry* and computer terms, a data field that indicates a special status; for example, an incomplete *case* or a data field requiring an *override*.

flow cytometry. A special diagnostic technique used for DNA analysis of a *tumor*. The information, called DNA ploidy value, has prognostic clinical significance for some tumors.

focus (pl. foci). The chief center of a morbid process.

follow-up. Continued surveillance of a patient at specified intervals (usually twelve months) for the remainder of the patient's life following the initial *diagnosis* and *treatment* of a *cancer*. A documented contact with the patient, preferably through the attending physician, or through the spouse, a relative, or direct contact with the patient.

FORDS. *Facility Oncology Registry Data Standards* (from Vol. II, Standards of the Commission on Cancer, ACoS)

frozen section. A *pathologic* examination technique where part of a *biopsy* is quickly frozen, sliced thinly, and microscopically examined to determine the presence or absence of *cancer* cells. The technique is used for immediate *diagnosis* at the time of *surgery* so that, if indicated, more definitive surgical *treatment* can be completed at that time.

fulguration. Destruction of abnormal tissue by means of electric arc (indirect), or spark (direct), generated by high frequency current.

G

glioma. A *tumor*, usually associated with the brain, arising from the supporting structure of nervous tissue, including astrocytoma, oligodendroglioma, and ganglioglioma.

grade. The degree to which a *tumor* resembles the normal tissue from which it arose; also called *differentiation*. Grade reflects the aggressiveness of the tumor.

gross anatomy. That which deals with structures that can be distinguished with the unaided eye; also called *macroscopic* anatomy.

gross observation. *Macroscopic* examination; examination with the unaided eye; also called *direct visualization*.

H

hematology. The branch of medical science concerned with the study of the structure, functions, and disease of blood and blood-forming organs.

hematopoietic. Pertaining to the tissues that generate blood components, such as the bone marrow and stem cells.

hepatic. Pertaining to the liver.

hermaphrodite. An individual having the reproductive organs and many of the secondary sex characteristics of both sexes.

histology. The department of anatomy concerned with study of the minute structure, composition and function of the tissues; the microscopic structure of tissue.

history of cancer. The medical background for a patient who has been previously diagnosed with one or more *cancers*. The patient may or may not be *disease free*.

homolateral. *Ipsilateral*; same side.

hormone therapy. *Cancer-directed treatment* that interferes with the growth of *cancer* tissue by changing the hormonal balance of the patient. Hormone therapy may involve the use of hormones, antihormones, steroids, *endocrine surgery*, or *endocrine radiation therapy*.

hyperbaric. Characterized by greater than normal pressure or weight; for example, applied to oxygen under greater than normal atmospheric pressure.

hypophysectomy. Surgical removal of the hypophysis or pituitary gland.

I

ICD-9. *International Classification of Diseases*, Ninth Revision.

ICD-9-CM. *International Classification of diseases, Clinical Modification*, 9th Revision, 4th Edition. This edition has been adapted for use in the United States. All codes are compatible with *ICD-9*.

ICD-O. *International Classification of Diseases for Oncology*, 1976.

ICD-O-FT. *International Classification of Diseases for Oncology*, Field Trial Edition, March 1988.

ICD-O-2. *International Classification of Diseases for Oncology*, Second Edition, 1990.

ICD-O-3. *International Classification of Diseases for Oncology*, Third Edition, 2000.

immunotherapy. *Cancer-directed treatment* that boosts, directs, or restores the body's normal immune system and enhances the body's own ability to fight *cancer*. It is almost always used as an *adjunct* to *surgery*, *radiation*, and/or *chemotherapy*. Also called *biologic response modifier* therapy.

incidence rates. The number of new cases of a disease occurring in a period of time divided by the number of persons at risk of getting the disease during that time. The result is frequently multiplied by a base number such as 1,000 or 100,000.

incision. The act of cutting; a cut.

incisional biopsy. Surgical removal of a portion of a *tumor* performed to establish a *diagnosis* and the characteristics of the *cancer*.

induration. The quality of being hard; used to describe fibrous or connective tissue adjacent to the *tumor* and is to be interpreted as extension of the *malignant* growth.

inpatient. A hospital patient who is admitted for acute or critical care which is expected to require more than an overnight stay and whom the hospital classifies as an inpatient.

in situ. A term describing the *behavior* of a *neoplasm* which has all the characteristics of malignancy except invasion of neighboring tissues. It has not penetrated the *basement membrane*. A *diagnosis* of in situ behavior must be based on microscopic examination of tissue. Some synonyms are *intraductal*, *intraepithelial*, noninvasive, and noninfiltrating. Other terms meaning in situ are listed in Chapter 5 in the section for behavior.

interferon. Any of a family of agents with immuno-regulating effects and used to treat some types of *cancer*. Interferons are *biological response modifiers*.

intracystic. Within a cyst.

intraductal. Situated or occurring within the duct of a gland; *in situ*.

intraepithelial. Situated among the cells of the epithelium; *in situ*.

intrathecal injection. Injection of a substance into the cerebrospinal fluid surrounding the brain and spinal cord.

invasion. The infiltration and active destruction of tissue below the *basement membrane*, a characteristic of a *malignant* growth. (***invasive*** adj.)

ipsilateral. Situated on or pertaining to the same side; *homolateral*.

J

JCAHO. Joint Commission on Accreditation of Healthcare Organizations.

K

L

laser surgery. Destruction of *cancer* tissue with a laser beam, most commonly used for vaginal or oral tumors.

laterality. Relationship to one side of the body or the other (left, right, both). Laterality is determined when the *primary site* is a *paired site*.

left-justified. A term describing characters in a data field when they are entered in the first space(s) to the left. Unused spaces at the right are left blank unless instructions specify otherwise.

lentigo maligna. A non-invasive melanotic freckle.

lentigo maligna melanoma. An invasive melanotic lesion.

lesion. Any *pathological* or traumatic discontinuity of tissue.

leukemia. A progressive, *malignant* disease of the blood-forming organs.

lobular neoplasm. A *neoplasm* resembling small lobes.

localized. A term describing *stage of disease* for an *invasive malignant neoplasm* that is confined entirely to the *organ of origin*.

lymphadenopathy. Disease of the *lymph nodes*, but not necessarily indicating *tumor* involvement.

lymph node. One of the accumulations of the lymphatic tissue organized as definite lymphatic organs, varying from 1 to 25 millimeters in diameter and situated along the course of lymphatic vessels.

lymphoma. Any *neoplastic* disorder of the lymphoid tissue. The term is often used alone to denote *malignant* lymphoma.

M

macroscopic. Visible to the unaided eye or without a microscope.

macroscopic confirmation. The process of supporting a *diagnosis* with evidence visible to the unaided eye.

magnetic resonance imaging (MRI). A diagnostic technique that uses an external magnetic field to visualize internal structures of the body by making it possible to distinguish between hydrogen atoms in different environments.

malignant. The tendency of a disease to become progressively worse and to result in death; having the properties of *anaplasia*, *invasion*, and *metastasis*; said of *tumors*.

malignant melanoma. A *malignant neoplasm* of melanocytes, usually developing from a nevus and consisting of black masses of cells with a marked tendency to *metastasize*.

malignant tumor. An uncontrolled, *invasive* growth capable of metastasizing (spreading to a distant part of the body). The opposite of *benign tumor*.

master patient index. The complete, alphabetized listing of every patient that has been *accessioned* into the *registry* since its *reference date*.

medulloblastoma. A radiosensitive *tumor* of undifferentiated neuroepithelial cells arising in the cerebellum.

melanoma. A *tumor* made up of melanin-pigmented cells (melanocytes). When used alone, the term refers to *malignant melanoma*.

mesentery. A membranous fold attaching organs to the body wall, most commonly used in reference to the fold attaching the small intestine to the dorsal body wall.

mesocolon. The section of *peritoneum* by which the colon is attached to the posterior abdominal wall. It is divided into ascending, transverse, descending, and sigmoid portions, according to the specific section of colon to which it gives attachment.

metastasis (pl. metastases). The transfer or spread of disease from the original *site* to another site not directly connected to it; the formation of a new *foci* of the disease. (v. **metastasize.** to spread.)

metastatic. Pertaining to the transfer (spread) of disease; spread to organs other than those listed in the *regional* areas; spread to other areas of the body; or spread to *lymph nodes* other than *regional lymph nodes*.

micrometastasis. Secondary *tumors* that are not visible to the unaided eye.

microscopic confirmation. The microscopic examination of tissue or cells removed from the *site* of a suspected *cancer* for the purpose of verifying a malignancy.

morbidity rate. An expression of the number of disease occurrences in a defined population during a specified interval of time.

morphology. The science concerned with the forms and structure of organisms; the form and structure of a particular organism, organ, or part.

mortality rate. An expression of the frequency of death occurring in a defined population during a specified interval of time.

multiple myeloma. A primary *malignant neoplasm* of plasma cells usually arising in the bone marrow and associated with skeletal destruction resulting in *pathological* fractures and bone pain.

myelodysplastic syndrome. A unique preleukemic condition in which the bone marrow shows progressive deterioration in red blood cell production, platelet formation, and white blood cell maturation.

myeloma. A *tumor* composed of a type of cell normally found in bone marrow.

N

NAACCR. North American Association of Central Cancer Registries.

National Center for Health Statistics. The federal center for health statistics. It is one of the Centers for Disease Control and Prevention.

NCI. National Cancer Institute.

necropsy. The postmortem examination of a body; *autopsy*.

neoadjuvant therapy. *Chemotherapy* given prior to surgical *resection* or *radiation therapy* to reduce the bulk of a locally advanced primary *cancer*.

neoplasm. Any new and abnormal growth, such as a *tumor*. (**neoplastic** adj.)

NIH. National Institutes of Health.

non-analytic case. A *cancer case* that was diagnosed and received complete *first course* of treatment elsewhere prior to admission to the reporting facility, prior to the *cancer registry's reference date*, or diagnosed at *autopsy*. Such cases are generally not included in statistical reports of treatment and *survival*, but may be included in administrative reports.

non cancer-directed treatment. *Treatment* which prolongs the patient's life, alleviates pain, makes the patient comfortable, or prepares the patient for *cancer-directed treatment*. The treatment is not meant to destroy or control the *tumor* or delay the spread of disease.

NOS. Not otherwise specified.

nuclear medicine. The use of radioactive materials (isotopes) in *diagnosis* and *treatment* of disease; includes the application or internal use of radium, radioactive iodine, radioactive phosphorus, and radioactive gold, for example.

numeric. A term used to describe a data field that accepts numbers only.

O

-oma. Suffix meaning *tumor* or *neoplasm*; swelling.

omentum. A fold of the *peritoneum* extending from the stomach to adjacent organs in the abdominal cavity.

oncology. The study of *tumors* and *cancers*.

oophorectomy. The removal of an ovary or ovaries.

optional data set. Additional data items that may be collected as an extension of a *required data set*. These additional data items are optional and are not required for certification purposes by the ACoS; also called extended data set.

orchiectomy. The removal of one or both testes.

organ of origin. *Primary site of cancer.*

-oscopy. Suffix meaning the act of examining or looking into an organ using an instrument called a scope.

osseous. Pertaining to bone.

-ostomy. Suffix meaning the surgical creation of an artificial opening into a hollow organ or a new opening between two such structures. The term “ostomy” is used alone when the opening is formed between two hollow organs or between one or more such organs and the abdominal wall for discharge of intestinal contents or of urine.

other cancer-directed treatment. Any *cancer-directed treatment* that is not appropriately assigned to the other specific treatment codes; includes any experimental or newly developed method of treatment differing greatly from accepted types of cancer therapy.

-otomy. Suffix meaning the operation of cutting, or *incision*.

outpatient. A hospital or clinic patient whose care and management is expected to require less than a one day stay and whom the hospital classifies as an “outpatient;” ambulatory (care) patient and short stay patient are terms for certain types of outpatients.

override. To indicate that an inconsistency (identified by *edit check*) between data elements has been reviewed and the information has been found to be correct.

P

paired site. *Bilateral organs; two corresponding body parts on opposite sides of the midline.*

palliative. An adjective used to describe medical care intended to relieve symptoms or make the patient more comfortable, but not cure. Some of the treatments termed palliative fall within the definition of *cancer-directed treatment*, but others are excluded because they treat the patient but not the *cancer*. If the distinction cannot be discerned in the medical record, a physician must interpret the purpose of the treatment.

papillary. Pertaining to or resembling a papilla or nipple.

Pap smear. A type of *cytology* examination used for the detection and *diagnosis* of *malignant* and premalignant conditions of the female genital tract; Papanicolaou *smear* or test.

parietal. Of or pertaining to the walls of a cavity.

parietal peritoneum. *Peritoneum* lining the abdominal and pelvic walls, including the undersurface of the diaphragm.

pathologic, pathological. Of or relating to *pathology*; relating to or caused by disease.

pathology. The branch of medicine concerned with the study of the nature of disease, its causes, processes, and development, as well as the structural and functional changes in tissues and organs of the body which cause or are caused by disease.

peritoneal. Pertaining to the serous membrane lining the abdominopelvic walls and enveloping the *viscera*.

peritoneal fluid. Fluid from the serous membrane lining the abdominopelvic walls and *viscera*.

peritoneum. The serous membrane lining the abdominopelvic walls and enveloping the *viscera*; see also *parietal peritoneum* and *visceral peritoneum*.

pleura (pl. pleurae). The serous membrane enveloping the lungs and lining the thoracic cavity, completely enclosing the *pleural cavity*.

pleural cavity. The potential space between the *parietal* and *visceral pleurae*.

pleural fluid. Fluid from the serous membrane enveloping the lungs and lining the thoracic cavity.

precancerous. Pertaining to a condition that tends to become *malignant*.

prednisone. An adrenocortical steroid which, when used as part of a chemotherapeutic regimen, is considered *hormone therapy* for certain types of *cancer*.

primary site. The organ or tissue where a *cancer* originates; where the cancer started in the body.

primary site code. A three digit code designated for the specific *anatomic site* of the primary *cancer*.

Q

R

radiation. Energy transmitted in the form of rays, waves, or particles; usually referring to electromagnetic radiation when used without a modifier.

radiation therapy (radiotherapy). The *treatment* of disease by roentgen rays or other radiant energy. Use of external beams or internal radioactive implants independently; or before, during, or after *surgery* to kill *tumor* cells. Examples include *beam*, *seed*, *needle*, and radioactive drugs.

radiology. The science of radiant energy (such as x-rays) and radioactive substances; the use of radiant energy in the *diagnosis* and *treatment* of disease.

rate (incidence rate). A measure of the frequency with which an event (e.g., death or disease) occurs in relation to a unit of population over a specified period of time.

rectosigmoid. The upper portion of the rectum and the lower portion of the sigmoid colon.

recurrence. The return of a *cancer* after a clinically disease free interval.

reference date. The starting date for a *cancer registry* after which all eligible *cases* must be entered into the registry. The date must be January 1 of a given year.

regional. A term describing *stage of disease* for a *malignant neoplasm* that 1) has extended beyond the limits of the *organ of origin* directly into surrounding organs or tissues, 2) involves regional *lymph nodes* by way of the lymphatic system, or 3) has both regional extension and involvement of regional lymph nodes, with no evidence of *distant* spread.

registrar. See *cancer registrar*.

registry. See *cancer registry*.

remission. Complete or partial disappearance of the signs and symptoms of disease; the period in which a disease is under control.

reportable list. A list developed by a *cancer registry* that identifies all diagnoses and types of cases that are to be included in the registry and those that are to be excluded. It must include malignancies with a *behavior code* (fifth digit) of 2 or higher.

required data set. Minimum required information established by a cancer registry to be collected for each cancer case; also called core data set.

resection. *Excision* of a portion or all of an organ or other structure.

retinoblastoma. A *malignant tumor* arising from retinal germ cells and appearing in one or both eyes, usually in children under 5 years of age; *glioma* of the retina.

rhabdomyosarcoma. A *malignant soft-tissue tumor* of muscle origin.

right-justified. A term describing characters in a data field when they are entered in the last space(s) to the right. Unused spaces preceding the string of characters are left blank unless instructions specify otherwise.

RMCDs. Rocky Mountain Cancer Data Systems.

ROADS. *Registry Operations and Data Standards* (from Volume II, Standards of the Commission on Cancer, ACoS), revised January 1998.

S

salvage therapy. Treatment given after the failure of *first course* of therapy in order to prolong survival or to improve quality of life; a second attempt to cure the patient; see also *subsequent treatment*.

sarcoma. A *malignant tumor* of mesodermal origin. The mesoderm is the embryonic germ layer from which the supporting structures of the body (bone, muscle, connective tissue) are derived.

secondary site. The organ to which a *malignant neoplasm* has spread from a *primary site*; *metastatic site*.

SEER. Surveillance, Epidemiology, and End Results Program of the National Cancer Institute.

sentinel node. The first node to receive drainage from a primary tumor. It is identified by injection of dye or radio label at the site of the primary tumor.

sequence number. A number assigned to a case in a *cancer registry* that indicates the chronological order of all independent, primary malignancies diagnosed during the life of the patient, whether the tumors exist at the same or at different times.

sex-specific rate. An incidence or death rate calculated using data for one sex only.

simultaneous. Existing or occurring at the same time. Separate *cancers* are simultaneous if diagnosed within two months of each other.

site. The place, position or location; for *cancer*, the *anatomic site* where the malignancy occurs. See also *primary site* and *secondary site*.

site specific. Pertaining to a particular primary *cancer*; e.g., surgery codes are individualized to particular cancer *sites* (breast, colon, lung, etc.).

smear. A specimen for *microscopic* study prepared by spreading the material across a glass slide.

squamous cell. A flat, scalelike epithelial cell.

stage, stage of disease. A broad category which groups cases with similar prognoses based on how far the disease has spread from the *site* of origin at the time of *diagnosis*; e.g., *in situ*, *localized*, *regional*, or *distant*; or stage 0, I, II, III, or IV.

stem cell transplant. A type of *bone marrow transplant* in which stem cells (the immature cells from which all blood cells develop) are obtained from the bloodstream and then used to restore the bone marrow.

stereotactic technique (s. radiosurgery or surgery). Any of the techniques which use a system of three-dimensional coordinates to precisely locate the *pathologic lesion* or *tumor* to be removed or treated. The lesion is localized using precise images, usually made by *computerized axial tomography* or *magnetic resonance imaging*. The operative approach or irradiation is then directed by an apparatus called an arc guidance system.

subsequent treatment. *Treatment* administered after failure of the *first course*, due either to progression of the disease or lack of response to the initial treatment.

surgery. In *cancer-directed treatment*, an operative procedure to remove cancer tissue, even if the cancer tissue is known to be not entirely removed.

survival. The length of time a patient lives after some defined starting point; in *cancer* data management, the length of time after *diagnosis* of cancer.

T

teratoma. A true *neoplasm* made up of a number of different types of tissue, none of which is native to the area in which it occurs; most often found in the ovary or testis.

text. A term used to describe a data field that will accept any letter, number, symbol, or space; the narrative, descriptive information recorded in an abstract to justify the codes selected for the data items or to maintain information that is not coded at all.

therapy. The *treatment* of disease.

tissue specimen. Organs or tissue surgically removed for *pathological* examination and *diagnosis*.

TNM Staging. A *cancer* staging scheme developed by the American Joint Committee on Cancer that classifies primary *tumor*, *regional lymph nodes*, and *distant metastasis*.

topography. The name of an *anatomic site* or region.

transsexual. A person whose external anatomy has been changed to that of the opposite sex.

treatment. The management and care of a patient for the purpose of combating disease.

tumor. A swelling or mass; a new growth of tissue in which the multiplication of cells is uncontrolled and progressive; also called *neoplasm*. A tumor can be either *benign* or *malignant*.

tumor board (cancer conference). A meeting of medical professionals where the *diagnosis* and *treatment* of patients with *cancer* is discussed.

tumor marker. A substance in tissue or body fluids that can be measured quantitatively by biochemical or immunochemical means in order to detect a *cancer* and possibly the organ where it resides, to establish the extent of *tumor* burden before *treatment*, and to monitor the response to therapy.

tumor registrar. See *cancer registrar*.

tumor registry. See *cancer registry*.

U

V

validity. The degree to which a measurement actually measures or detects what it is supposed to measure; accuracy.

visceral peritoneum. The *peritoneum* reflected at various places over the *viscera*, forming a complete covering for the stomach, spleen, liver, ascending portion of the duodenum, jejunum, ileum, transverse colon, sigmoid flexure, upper end of rectum, uterus, and ovaries. It also partially covers the descending and transverse portions of the duodenum, the cecum, ascending and descending colon, the middle part of the rectum, the posterior wall of the bladder, and the upper portion of the vagina. The *peritoneum* serves to hold the *viscera* in position.

viscus (pl. viscera). Any large interior organ in any one of the three great cavities of the body, especially in the abdomen.

W

Wilms tumor. A rapidly developing *malignant* mixed *tumor* of the kidneys, made up of embryonal elements; also called nephroblastoma. It usually affects children before the fifth year, but may occur in the fetus and rarely in later life.

X

Y

Z

