Indiana State Department of Health Children and Hoosiers Immunization Registry Program - Quick Reference Guide

Running a Coverage Rate Report

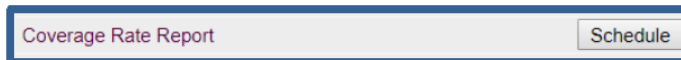### Why Would I Run the Coverage Rate Report?

The coverage rate report allows organizations and clinics to measure their immunization rates (number and percent of patients up-to-date with vaccines) and obtain lists of patients who are due for vaccines.

How Do I Run the Coverage Rate Report?

1. Click on **Report Module** under the **Reports** heading in the left menu.

2. Click on **Coverage Rate Report**. You can find this report under the **Registry** reports heading.

3. Most clinics run this report **By Ownership**.

   - This is the best option to assess your clinic's immunization rates because it limits the report to patients you "own" in CHIRP.
   - Clinics who do not own patients in CHIRP (e.g. pharmacies), can run this report **By Service** to include all patients who received a vaccination at their clinic.

4. Select a **Series** or a **Vaccine** type from one of the drop down boxes.

5. You can opt to enter a **Vaccine Date Range** if you select from the **Vaccine** drop down box. This allows you to assess coverage during a certain timeframe. You cannot enter a **Vaccine Date Range** if you select a **Series**.

> After choosing a series. You can click on **Series Description** to see which vaccines and how many doses of each are included in that series

6. Enter an **Age Range** and choose months or years from the drop down box.

- Enter an **Age as of Date** or leave it blank to use today's date. In the **example shown**, the **Age as of Date** field is blank, so this report includes patients' ages 24 through 35 months as of today's date. If you enter the age range as 24 through 35 months as of 1/1/18, the patients included in the report were born between 1/2/15 – 1/1/16.

	From:	24	Months ▼
⊙ **Age Range**	Through:	35	Months ▼
Age as of Date *(Todays date if left blank)*			
Evaluate At Age		24	Months

💡 If you enter an age in the **Evaluate At Age** field, you must also select the **Not Yet Due** checkbox in the **Display Report Columns** section to assess how many patients were UTD for the selected series or vaccine by that age.

7. Enter an age (in months) if you want to include an **Evaluate at Age** or you can leave this field blank.

- If you include an **Evaluate at Age**, the report assesses whether patients are up-to-date by the age typed in this field.
- In the **example above**, the report will measure whether patients were up-to-date by age 24 months. If you leave this field blank, the report measures whether the patient was up-to-date at any age within the age range (e.g. at any time between the ages 24 – 35 months).

8. You can limit the report by several different criteria:

- **Patient Status**
    i. Active Only – Recommended for organizations and clinics who own patients in CHIRP.
    ii. Inactive Only – Includes patients previously inactivated by an organization or clinic. This option, or the all option described below, are recommended for non-owning organizations and clinics because all patients are listed as inactive in CHIRP for those types of organizations and clinics.
    iii. All – Includes active and inactive patients.

- **Patient VFC Status**
    i. Use this field to assess coverage for a specific Vaccines for Children (VFC) eligibility status (e.g. assess coverage rates for VFC-eligible – Medicaid/Medicaid Managed Care patients).

- **Vaccine Status**
    i. All Vaccinations – Includes all vaccinations on the patient's record regardless of whether they were given according to the recommended immunization schedule.
    ii. Valid Vaccinations Only - Preferred option so you only count patients up-to-date if they received vaccinations given at the recommended ages and intervals.

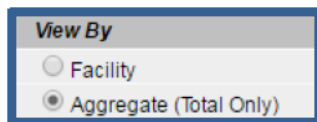| **Limit Report By**	
Patient Status	⊙ Active Only ○ Inactive Only ○ All
Patient VFC Status	Select...
Vaccine Status	○ All Vaccinations ⊙ Valid Vaccinations Only

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- Exclude patients who have either no forecast or aged out
  i. If you check this box, any patients who are up-to-date for the selected vaccine or series, will not be included on the patient list version of this report. **Choosing this option doesn't affect coverage rates, it just removes these patients from the patient list.**

> You can also limit the report by patient race and/or gender, as well as patient county or zip code

9. Choose how to view the report. Different options are available depending on your type of CHIRP user account. For example, if your CHIRP account is limited to one facility, you only have the options shown in the screenshot.

   - **Facility**
     i. View the coverage rates for one facility. For organization-level accounts, this option breaks down the results by facility and provides organization-wide coverage rates.
   - **Aggregate**
     i. This option only provides coverage rate totals. For facility-level accounts, the Facility and Aggregate options provide the same results.

10. Choose the immunization measures to display on report. See below:

    - Complete By Vaccine
    - Incomplete Series
    - One Dose to Complete Series
    - One Visit to Complete Series
    - Not Yet Due
    - Not Yet Due (Late by Age)
    - Missed Opportunities

> If you select a series that includes multiple doses of the same vaccine (i.e. HPV 1, 2, and 3 dose series), you can only select the **Complete By Vaccine** measure.

11. Choose your report output.

    - **Create or Export Coverage Report**
      i. These two options show a summary coverage by numbers and percentages of patients.
    - **Create or Export Patient List**
      i. These two options provide a list of all the patients included in the coverage report and displays which vaccines they need. You can choose to exclude up-to-date or aged out patients from this list by marking the checkbox **exclude patients who have either no forecast or aged out** in the **Limit Report By** section.

Understanding Your Report Results

Total Patients	Completion By Vaccine		Incomplete Series	One Dose to Complete Series	One Visit to Complete Series	Not Yet Due	Not Yet Due (Late by Age)	Missed Opportunities	Series Complete
7	DTaP/DT/Td	≥4	2 (29%)						
	HIB	≥3	2 (20%)						
	POLIO	≥3	2 (29%)						
	HEP-B 3 DOSE	≥3	2 (29%)						
	MMR	≥1	4 (57%)	6 (86%)	0 (0%)	0 (0%)	0 (0%)	1 (14%)	4 (57%)	1 (14%)
	VARICELLA	≥1	2 (29%)						
	PNEUMO (PCV)	≥4	1 (14%)						

Callout annotations:
- Completion rates by each vaccine in the series
- Up to date by the Evaluate At Age
- Up to date *after* the Evaluate At Age
- Complete with all doses in the series at any point within the age range.

Total Patients	Total number of patients included in the report.
Completion by Vaccine	Includes patients who are up-to-date with each vaccine in the selected series. In the screenshot below, each of the vaccines listed under **Completion By Vaccine** were included in the selected series. In this example, 100 percent of this clinic's patients were up-to-date with one dose of Meningococcal vaccine, but only 75 percent were up-to-date with 1 dose of HPV vaccine. If you include an **Evaluate At Age**, these rates reflect the percent **up-to-date** by that age.
Incomplete Series	Includes patients who are not up-to-date with all the vaccines in the selected series.
One Dose to Complete Series	Includes patients who only need one more dose of vaccine to complete the selected series.
One Visit to Complete Series	Includes patients who can get all doses of vaccine they need to be up-to-date with the selected series in one visit.
Up-to Date	Includes patients who are up-to-date with all doses in the selected series by the **Evaluate At Age.** You can only select this measure if you entered an age in the **Evaluate At Age** field.
Late Up-to-Date	Includes patients currently up-to-date with all doses in the selected series, but who weren't up-to-date until after the age entered in the **Evaluate at Age** field**.** You can only select this measure if you entered an age in the **Evaluate At Age** field.
Missed Opportunities	Includes patients who were due for multiple vaccines in the selected vaccine series, but at their last immunization visit they did not receive all of them. This measure doesn't include missed opportunities when patients come in for a visit and receive no vaccinations.
Series Complete	Includes patients who are up-to-date with all doses in the selected series (this measure doesn't look at whether a patient was up-to-date by an **Evaluate At Age**). You may notice that this rate is lower than the **Completion by Vaccine** rates for each vaccine. The **Series Complete** rate is typically lower than individual vaccine rates, because the patient must have every dose of the vaccines in the series in order to be counted in the Series Complete rate.

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Running the Report to Measure Multi-Dose Coverage

Some of the options in the **Series** drop down box display completion rates by dose for a vaccine family.

Aggregate (Total Only)	Total Patients	Completion By Vaccine			Series Complete
TOTAL	523	HPV	≥1	144 (28%)	33 (6%)
			≥2	67 (13%)	
			≥3	33 (6%)	

When you run this type of vaccine series, you can only choose the **Complete By Vaccine** measure.

Display Report Columns

☑ Complete By Vaccine

☐ Incomplete Series

☐ One Dose to Complete Series

☐ One Visit to Complete Series (Multiple doses needed but could be given with one visit to vaccinator)

☐ Up-to-date

☐ Late up-to-date

☐ Missed Opportunities

Can only use this measure with series that let you measure multiple doses.

In the example above, **HPV – 1, 2, and 3 doses** series was selected. If you click the **Series Description** link next to the **Series** dropdown box, you can see that this series measures HPV vaccine coverage by dose. If you select the **3 HPV** series shown on the right, the report only measures how many patients received three doses of HPV.

Series Description ✖

Series Name: HPV - 1, 2, and 3 doses

Selected Vaccines	Number of Shots		
HPV	1	2	3

Series Description ✖

Series Name: 3 HPV

Selected Vaccines	Number of Shots
HPV	3

How does the Report Calculate Coverage for Each Dose in the Series?

When are measured for each dose in a series, the coverage report calculates the number of patients who received *at least* that number of doses.

Using the example above, if you select the **HPV – 1, 2, and 3 doses** series:

- **HPV 1** = total number of patients who received at least 1 dose of HPV.
- **HPV 2** = total number of patients who received their 1st and 2nd doses of HPV. Patients who received two doses of HPV are counted in the HPV 1 and HPV 2 measures.
- **HPV 3** = total number of patients who received their 1st, 2nd, and 3rd doses of HPV. Patients who received three doses of HPV are counted in the HPV 1, HPV 2, and HPV 3 measures.

❓ **Questions?** Please Contact the CHIRP Help Desk at 1-888-227-4429 or email chirp@isdh.in.gov

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