TRAUMA TIMES

A Communication of the Division of Trauma and Injury Prevention   *Indiana State Department of Health*

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Upcoming Events

INVDRS Advisory Board meeting
December 9, 1 p.m. (EST), 5T

EMS Commission meeting
December 12, 10 a.m. (EST), Brownsburg Fire Headquarters, 470 E. Northfield Drive

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Trauma Care Committee Update

New State Health Commissioner Jerome Adams, M.D., M.P.H., was introduced at the November 14 Indiana State Trauma Care Committee (ISTCC) meeting, where he expressed his excitement being the new State Health Commissioner and stressed the importance of collaboration between disciplines as a way to make Indiana's trauma system the best it can be while continuing to save lives.

Gretchen Huffman from EMS for Children (EMS-C) presented the survey results of the EMS-C Pediatric Readiness Survey in which 106 out of the 121 hospitals responded to the assessment. The survey also revealed that 27 percent of patients that are seen in Indiana emergency departments are pediatric patients. She also said that ongoing education was key in providing adequate care to pediatric patients as many of the hospitals surveyed currently are not paying for any continuing ER nurse education as these trainings can be very expensive.
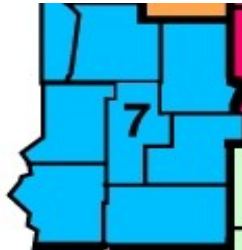
Spencer Grover of the Indiana Hospital Association (IHA) reported on the Emergency Department Education Requirements Survey conducted three years ago by IHA, where 79 hospitals responded to the six-question survey. IHA plans to repeat this survey in the Winter of 2015.

The statewide Trauma Registry received reports of 8,272 incidents reported during Quarter 2, 2014 (April-June) with 93 hospitals reporting data (nine trauma centers, 84 non-trauma centers).

Trauma Care Committee Update (cont'd)

Of the Public Health Preparedness Districts, all hospitals with emergency departments in districts 7 and 10 reported data to the Registry (below).

District 7
Greene County General
Putnam County
St. Vincent Clay
Sullivan County Community
Terre Haute Regional
Union Hospital
Union - Clinton

District 10
Daviess Community
Deaconess
Deaconess Gateway
Gibson General
Good Samaritan
Memorial Hospital & Health Care Center
Perry County Memorial
St. Mary's Medical Center
St. Mary's Warrick

After much discussion about the Triage and Transport Rule, Mike Garvey of the Indiana Department of Homeland Security (IDHS) agreed to post a clarification about the rule on IDHS' website.

Currently, there are 153 EMS providers submitting data to the Indiana EMS Registry, compared to 29 providers last year. The EMS registry has grown from 215,000 runs to 695,803 as of November 2014.

Ten Indiana hospitals have become "in the process" trauma centers in the last year, with two facilities becoming ACS-verified Level IIIs. However, the application to become an "in the process" facility needs more clarity and specificity. After looking over the proposed revisions, the committee approved those revisions which provide clarity to hospitals applying to be considered "in the process". The revised document will be presented to the EMS Commission meeting on December 12 for approval.

Finally, the Division of Trauma and Injury Prevention also gave an update on the Indiana Violent Death Reporting System (INVDRS), which is funded by the Centers for Disease Control and Prevention. INVDRS will gather vital records data, law enforcement records and coroner reports in order to better understand the circumstances of violent deaths, including homicides, suicides, undetermined intent deaths, legal intervention and unintentional firearm deaths. Data collection for violent death information in six pilot counties including Allen, Lake, Madison, Marion, St. Joseph and Vanderburgh will begin January 1.

The 2015 ISTCC meetings will be in ISDH's Rice Auditorium on the following days:

- Friday, February 20
- Friday, May 22

- Friday, August 21
- Friday, November 20

The IU InterFACE Center at Rehabilitation Hospital of Indiana

By Dawn Neumann, PhD, Assistant Professor, Department of Physical Medicine and Rehabilitation (PM&R) and Research Associate, Rehabilitation Hospital of Indiana

The IU Interactive and Functional Assessment of Communication and Emotion Center (InterFACE Center) at the Rehabilitation Hospital of Indiana (RHI)) is a human observation laboratory designed to research emotions, social cognition, behaviors, and interpersonal interactions in clinical populations, and to empirically evaluate the effectiveness of therapeutic interventions. The overall goal of the clinical research generated from the IU InterFACE Center is to guide evidence-based treatment approaches in rehabilitation facilities. The IU InterFACE Center at RHI has a living room design and is equipped with state-of-the-art technology that as a whole is not found anywhere else in the world. This includes:

- High definition cameras
- Advanced eye-tracking capability
- Wireless equipment, such as, ECG, for monitoring physiological responses
- Impedance cardiography
- Finger pulse, galvanic skin response, respiration and EMG
- Automated facial expression analysis software
- Immersive virtual reality

There are two exciting projects underway in the IU InterFACE Center at RHI. The first pertains to the evaluation of facial affect recognition deficits after traumatic brain injury (TBI), which is prevalent in approximately 39 percent of patients with moderate to severe TBI.

This research examines participants' ability to identify facial expressions while recording their visual scanning patterns, physiological responses, and neural activity during facial affect recognition tasks. The study compares participants with TBI who have impairments recognizing facial expressions to participants with TBI and healthy controls who have normal facial affect recognition.

This study, currently in the data analysis stage, is a collaborative project between the IU Physical Medicine and Rehabilitation Department and the Department of Radiology and Imaging Sciences at the Neuroscience Center. Eye-tracking and physiological data were recorded at the IU InterFACE Center at RHI, and brain activity was measured at the Neuroscience Center using functional Magnetic Resonance Imaging. Key investigators include Drs. Dawn Neumann, Michelle Keiski, Brenna McDonald, Yang Wang and Mr. John West.

The second project is a collaboration between two IU School of Medicine departments: Physical Medicine and Rehabilitation and Emergency Medicine. Dr. Jeffrey Kline, professor of Emergency Medicine and Vice Chair of Research, is an expert in the assessment and treatment of pulmonary embolism. He proposes that the facial expressions of patients who come to the Emergency Department (ED) complaining of cardiopulmonary symptoms provide important information about the person's health. Concern and uncertainty about the risk for pulmonary embolism commonly leads to expensive, and often unnecessary computerized tomographic pulmonary angiography (CTPA) testing.

Using the automated facial analyses software in the IU InterFACE Center at RHI, Dr. Kline and Dr. Neumann are collaborating on a study to empirically test the predictive value of patients' facial expressions as an indicator of serious illness. In the ED, patients' facial expressions in response to stimuli meant to evoke an emotional response are recorded and compared to their response to a neutral stimulus. Patient videos are sent to the IU InterFACE Center for analyses. The working hypothesis, which was supported in an earlier pilot study, is that patients with more serious diagnoses have less variability in their facial expressions in response to emotional stimuli.

These two projects illustrate the type of meaningful work and the unique multi-disciplinary collaborations that are possible through the IU InterFACE Center at RHI. It is exciting to imagine the advanced levels of research that can be accomplished through the resources available at the IU InterFACE Center at RHI. The Center has great potential to accelerate clinical implementation of evidenced-based research into rehabilitation practice.

Holiday Home Safety

We're well into the holiday season now, but it's always important to note some home safety tips to prevent injury and fire. Home fires during the holiday season often involve cooking, Christmas trees, candles and holiday decorations. The National Fire Protection Association has these home tips for holiday fire safety:

- Create a "kid-free zone" at least three feet around the stove and areas where hot food and drinks are prepared and carried. Stay in the kitchen when cooking on the stovetop, and do not hold children while preparing food because hot liquids may splatter.
- Fire departments respond to an average of 230 structure fires caused by Christmas trees each year. One in three of these fires are caused by electrical problems, and one in five resulted from a heat source that is too close to the tree. Never use lit candles to decorate the tree.
- After Christmas, get rid of the tree because dried-out trees are a fire hazard. Old trees should not be left in the home or garage, or placed outside the home. Check with your local community to find a recycling program.
- When using candles to decorate the home, remember to keep them at least 12 inches away from anything that can burn. Remember to blow them out when you leave the room or go to bed.

For information about how to safely prepare your holiday meal, visit: http://www.cdc.gov/features/turkeytime/. For information about home holiday fire prevention, visit: http://www.nfpa.org/safety-information/for-consumers/holidays

Pre-Holiday & Holiday Season Drunk Driving Prevention

The National Highway Traffic Safety Administration (NHTSA) is reminding drivers during the pre-holiday season (November 28–December 9) that buzzed driving is drunk driving. Throughout the holiday season, NHTSA is reminding drivers of drunk driving enforcement through the "Drive Sober or Get Pulled Over" program. During the 2012 holiday period (December 10-31), there were 1,829 people killed in crashes nationally, and almost a third (31%) of those fatalities were in drunk-driving crashes. Keep your holidays happy and safe. When you have any alcohol, let someone sober do the driving. For more information, visit www.trafficsafetymarketing.gov.
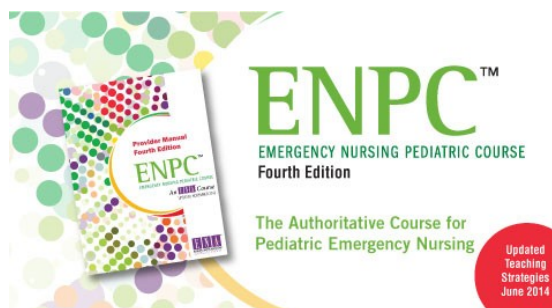
Emergency Nursing Pediatric Course (ENPC)

The ENPC gives nurses the following tools to provide expert care for patients from birth to adolescence. The tools include:

- Pediatric Assessment Triangle
- Early Intervention
- Family Presence

Developed to establish a standardized body of pediatric emergency nursing knowledge and to improve the care of all pediatric patients, this course combines interactive learning with scenario-based assessments to give nurses a comprehensive learning experience. The course includes:

- A Systematic Approach to the Initial Assessment
- Hands-on Training using both an Individual and Team Approach
- 2 Day Intensive Course with Expert Instructors
- Evidence-based Content Developed by Pediatric Emergency Experts
- 5 Online Modules
- Evaluation and Verification

2014:

Location	Dates	Course Director	Contact Phone Number/Email
Hobart	12/04/2014-12/05/2014	Linda Geer	219-947-6231/lmalec8597@aol.com
Lawrenceburg	12/08/2014-12/09/2014	Tracie Pettit	317-679-6326/tracie.pettit@gmail.com
Indianapolis	12/10/2014-12/11/2014	Joy Fuss	317-441-4216/joycefuss@hotmail.com

https://nf.ena.org/eweb/DynamicPage.aspx?webcode=ENACRSLISTHTML&xtncd=IN&t5rx=P

Implementing the Lethality Assessment Project

Research clearly demonstrates that survivors of domestic violence who receive comprehensive support services face drastically lower odds of re-victimization and particularly of homicide at the hands of their abusive partner. The Lethality Assessment Protocol (LAP) is a two-pronged intervention process that features a research-based lethality screening tool based on the work of Dr. Jacqueline Campbell and an accompanying referral protocol that provides opportunity for first responders to immediately link survivors with advocacy programs. The LAP training walks through implementation of necessary collaborations, trains first responders and advocates on the protocol, addresses the data tracking and reporting requirements, and examines the challenges and victories currently active jurisdictions have encountered.

Tuesday, December 2, 2014; 8:30 a.m. – 12:30 p.m.
South Bend Police Department Training Auditorium, 701 W. Sample St, South Bend, IN

Registration required. To register please contact Commander Brian Young at the St Joseph County Prosecutor's Office, byoung@stjoepros.org.

If you would like more information about the Indiana Coalition Against Domestic Violence (ICADV) and/or future trainings, please contact Caryn Burton, Training Coordinator, at cburton@icadvinc.org or 317-919-3685 ext. 105 or visit them at 1915 W. 18th Street, Suite B, Indianapolis, IN 46202.

Child Safety Seat Inspection Stations

According to Safe Kids Worldwide, 73 percent of car seats are not used or installed correctly. Improper use of a child safety seat can result in injuries or death.

The Automotive Safety Program at the Indiana University School of Medicine, with funding from the Indiana Criminal Justice Institute, has established a network of Child Safety Seat Inspection Stations where parents and caregivers can make an appointment to have their child safety seat inspected by a certified child passenger safety technician. The certified child passenger safety technician will evaluate the child's current restraint for recalls, proper fit and proper installation. The parent or caregiver is instructed on how to properly use and install the child restraint.

This is a free service and all parents and caregivers are encouraged to schedule an appointment to visit one of approximately 109 Child Safety Seat Inspection Stations located across Indiana.

A complete listing of child safety seat inspection stations can be viewed at http://www.preventinjury.org/Child-Passenger-Safety/Child-Safety-Seat-Inspection-Stations. Please refer parents or caregivers to the inspection station nearest to them or direct them to the Automotive Safety Program at 1.800.KID.N.CAR.

Injury Prevention Advisory Council

The Injury Prevention Advisory Council (IPAC) works to reduce the number and severity of preventable injuries in Indiana through leadership and advocacy. The last meeting of the year was held on November 20. The meeting featured an infant safe sleep presentation from Shaleea Mason, ISDH Safe Sleep Coordinator, and an older adult falls presentation from Mary Raley, Trauma Educator, Injury Prevention and Outreach Coordinator, for St. Mary's Trauma Services in Evansville.

IPAC meets quarterly to network and learn more about injury prevention. Currently, IPAC is drafting a state injury prevention plan and will host an injury prevention conference in 2015. Jessica Skiba, ISDH Injury Prevention Epidemiologist, currently sends all interested partners bi-weekly email updates with important injury prevention articles, news and resources. For those who are working in injury prevention and have an interest in creating a safe and injury-free Indiana are welcome to join IPAC.

The 2015 IPAC meetings will be from 1 p.m. – 3 p.m. in Rice Auditorium on the following days:

- Thursday, March 12
- Thursday, June 18

- Thursday, September 17
- Thursday, December 10

If you are interested in becoming a member of IPAC or would like more information about IPAC, contact Jessica Skiba at jskiba@isdh.in.gov or at 317-233-7716.

The following EMS services have submitted data to the Indiana Trauma Registry for 2014:

A&A Township VFD	Fayette County EMS
Aboite Township VFD	Fishers Fire Department
Adams County EMS	Fountain County Ambulance Service
Adams Markleville Fire Protection Territory	Fulton County EMS
Advance Vol Fire Department	Gas City Rescue Squad– Grant County
Air Methods Corporation / UCAN	Gaston VFD
Air Methods—Kentucky	Gibson County EMS
Albany EMS	Goshen FD
Alcoa EMS Warrick	Grace on Wings
Alexandria FD	Grant County EMS
American Medical Response (AMR)	Greenfield FD
Argos Community Ambulance Services	Harrison County Hospital EMS
Bargersville Community Fire Department	Hoagland EMS & VFD
Batesville Volunteer Fire & Rescue Department	Hobart FD
Beech Grove FD	Honey Creek FD
Boone County EMS	Huntertown VFD
Brownsburg Fire Territory	Indianapolis EMS
Burns Harbor FD	IU Collegiate EMS
Care Ambulance Service (Indianapolis)	IU Health—Bedford Hospital EMTs
Carlisle Lions Community Ambulance Service	IU Health—Bloomington EMTs
Carroll County EMS	IU Health—Lifeline
City of Gary FD	IU Health—Paoli Hospital EMTs
City of Lawrence FD	Jay County EMS
City of Nappanee EMS	Jefferson Center FD/Whitley County
City of Rushville FD	Jefferson Township Ambulance Service
Cleveland Township Fire Department	Keener Township EMS
Columbus Regional Hospital Ambulance Service	King's Daughters' Health EMS
Crawford County Ambulance Service	Knox County EMS
Crown Point Fire Rescue Department	Lake Hills VFD
Culberson Ambulance Service	Lake of the Four Seasons
Decatur County EMS	Lake Station Ambulance
Decatur Township FD	Lakeshore EMS
DeKalb EMS	LaPorte County EMS
Dublin VFD Inc.	Lutheran Hospital EMS
Eli Lilly & Company	Madison Township FD

Marion General Hospital EMS	Seelyville Fire
Memorial Hospital Ambulance	Sheridan FD
Memorial MedFlight	South Bend FD
Midwest Ambulance Service	Southwest Fire District
Milan Rescue 30	Southwest Medical Services
Mittal Steel Indiana Harbor	Southern Ripley County Emergency Life Squad
Monticello FD	Spencer County Emergency Ambulance Services
Moral Township VFD	Spirit Medical Transport
Morgan County Emergency Management	St. Joseph Township FD
Multi-Township EMS	St. Mary's LifeFlight
New Carlisle Area Ambulance Service	St. Mary's Warrick EMS
New Castle/Henry Co EMS	Steuben County EMS
Newton County EMS	Sugar Creek Township FD
New Washington VFD	Sullivan County Ambulance Service
Noblesville FD	Sullivan FD
North East Allen Co. Fire & EMS	Sunman Area Life Squad
North Webster/Tippecanoe Township EMS	Superior Air-Ground Ambulance Service
Northwest Ambulance Service	Terre Haute FD
Osolo Emergency Medical	The Methodist Hospitals
Parkview Huntington Hospital EMS	Three Rivers Ambulance Authority
Parkview LaGrange Hospital EMS	Thunderbird Fire Protection Territory
Parkview Noble Hospital EMS	Tippecanoe Emergency Ambulance Service
Parkview Regional Medical Center EMS	Town of Plainfield/Plainfield Fire Territory
Perry County Memorial Hospital EMS	Town of Schererville
Phi Air Medical StatFlight	Town of St. John FD
Pike county EMS	Trans-Care
Porter Memorial Hospital EMS	Tri-Creek Ambulance Service
Posey County EMS	Turkey Creek Fire Territory
Priority One EMS	Wabash FD
Prompt Ambulance Central	Warren County EMS
Putnam County Operation Life	Washington Township/Avon FD
Randolph County EMS	Wayne Township Fire Department
Richmond FD	Wells County EMS
Ripley County EMS	Westfield Fire Department
Rush Memorial Hospital EMS	Whiting FD
Salem Township EMS	Whitley County EMS
Scott County EMS	Wolcott Ambulance Service
Scott Township VFD	Woodburn Fire Department
Seals Ambulance Service	Zionsville Fire Department

Hospitals Reporting to the Indiana Trauma Registry—update

The following hospitals have submitted data to the Indiana Trauma Registry for 2014:

Cameron Memorial	IU Health-Bloomington	Parkview Whitley	St. Vincent Williamsport
Clark Memorial	IU Health—Goshen	Perry County Memorial	Sullivan County Community
Columbus Regional	IU Health—LaPorte	Portage Hospital	Terre Haute Regional
Community Anderson	IU Health—Methodist	Porter—Valparaiso	Union (Clinton)
Community Bremen	IU Health—Morgan	Pulaski Memorial	Union (Terre Haute)
Community East	IU Health—North	Putnam County	Witham
Community Howard	IU Health—Paoli	Reid Hospital	Witham at Anson
Community North	IU Health—Riley	Rush Memorial	Woodlawn Hospital
Community South	IU Health—Tipton	Schneck Medical Center	
Daviess Community	IU Health—White Memorial	Scott County Memorial	
Deaconess Gateway	Jasper County	St. Anthony—Crown Point	
Deaconess Hospital	Jay County	St. Anthony—Michigan City	
Dearborn County	Johnson Memorial	St. Catherine (Charlestown)	
DeKalb Health	King's Daughters' Health	St. Elizabeth—Central	
Dukes Memorial	Kosciusko Community	St. Elizabeth—Crawfordsville	
Dupont Hospital	Lutheran Hospital	St. Elizabeth—East	
Elkhart General	Major Hospital	St. Francis—Indianapolis	
Eskenazi Health	Margaret Mary Hospital	St. Francis—Mooresville	
Floyd Memorial	Marion General	St. Joseph RMC—Mishawaka	
Gibson General	Memorial Hospital (Jasper)	St. Joseph RMC—Plymouth	
Good Samaritan	Memorial (Logansport)	St. Margaret—Dyer	
Greene County	Memorial South Bend	St. Margaret—Hammond	
Hancock Regional	Methodist—Northlake	St. Mary's of Evansville	
Harrison County Hospital	Methodist—Southlake	St. Mary's Warrick	
Hendricks Regional	Monroe Hospital	St. Vincent Anderson	
Henry County Memorial	Parkview Huntington	St. Vincent Clay	
IU Health—Arnett	Parkview LaGrange	St. Vincent Frankfort	
IU Health—Ball Memorial	Parkview Noble	St. Vincent Indianapolis	
IU Health—Bedford	Parkview Randallia	St. Vincent Mercy	
IU Health—Blackford	Parkview RMC	St. Vincent Salem	

NEW These rehabilitation hospitals have submitted data to the Indiana Trauma Registry for 2014:

Community Health Network	Community Howard	Rehabilitation Hospital of Fort Wayne	Rehabilitation Hospital of Indianapolis

Save the Date: Injury Prevention 101 Conference

The ISDH Division of Trauma and Injury Prevention and the Injury Prevention Advisory Council will host a conference, Injury Prevention 101, on March 13, 2015 at the Indiana Government Center. The tentative agenda includes six sessions and a panel discussion. Some session topics include American College of Surgeons Orange book injury prevention requirements, how to find evidence-based injury programs, and how to use data to form and inform programs. The conference is intended for a broad audience including representatives from hospitals that are or want to become "in the process" trauma centers, local child fatality review teams, injury prevention coordinators and others with an interest in injury prevention programming.

More information about the event and a registration site will be made available soon.

Social Media: #SafetyIN

The Division of Trauma and Injury Prevention is now utilizing social media. Find safety tips and other information on the Indiana State Department of Health's Facebook Page and Twitter (@StateHealthIN). The Division is using the hashtag #SafetyIN for all Facebook and Twitter posts.

Calendar of Events

The Division of Trauma and Injury Prevention calendar of events can be found here: http://www.in.gov/isdh/26125.htm

A calendar of educational events from around the state can be found here: http://www.in.gov/isdh/25966.htm

Trauma Times Survey

Trauma Times wants your feedback! Please take this short survey to help us serve your needs: http://www.surveymonkey.com/s/WYY6TRJ

New Trauma Registry Reports

The Indiana Trauma Registry produces regular reports on a monthly, quarterly and annual basis. In addition, certain ad hoc reports are produced upon request. These reports are archived on our web page and can be accessed at http://www.in.gov/isdh/25581.htm.

Jerome Adams, M.D., MPH—
State Health Commissioner
Art Logsdon—Assistant Commissioner, Health
and Human Services

Katie Hokanson—Director
Jessica Skiba—Injury Prevention Epidemiologist
Camry Hess—Database Analyst Epidemiologist
Murray Lawry— EMS Registry Manager
Ramzi Nimry — Trauma System Performance
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