

# KIPRC Annual Report, 2013

This report briefly outlines the many research projects and public health initiatives undertaken by the Kentucky Injury Prevention and Research Center from July 2012 through June 2013.



University of Kentucky, College of Public Health

June 30, 2013

Authored by: The staff at Kentucky Injury Prevention and Research Center



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# KIPRC Annual Report, 2013

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This report briefly outlines the many research projects and public health initiatives undertaken by the Kentucky Injury Prevention and Research Center from July 2012 through June 2013.

## Greetings from the Director

Welcome to the Kentucky Injury Prevention and Research Center's (KIPRC) 2013 Annual Report on research projects and public health initiatives with documented activities and impact in research, policies, and practice:

### Research

KIPRC peer-reviewed research studies were published on identified drugs in injured motor vehicle drivers, concussion emergency department visits and hospitalizations, semi-truck sleeper berth occupant injuries, motor vehicle fires, multiple jobholder injury deaths, national health and safety performance standards for early care and education programs, child involvement in homicides-followed-by-suicides, and an ecological approach to suicide prevention. Numerous project and injury-specific reports were also produced and disseminated.

### Policy

Injury prevention related laws were enacted in the last fiscal year, including a requirement for the completion of motor carrier operation and safety regulations training annually, opioid-overdose antidote naloxone prescribing and distribution, and a law making a state child fatality review panel permanent.

### Practice

Surveillance recommendations for poisonings were tested; hazard alerts and a tool-kit were produced for drivers; radio PSAs were developed; potential Safe Communities were contacted and one was designated; smoke alarms, carbon monoxide alarms, and child passenger safety seats were distributed and training was conducted; fall prevention coalitions were evaluated; ten hospitals received designation in the Kentucky Trauma Care System by the Kentucky Department for Public Health; and policy briefs were developed.

Our partners are integral to violence and injury prevention efforts in the state to reduce the burden of injuries and illnesses. Limited program resources have promoted the establishment of novel partnerships and collaborations to target at-risk populations for injury prevention. KIPRC would like to acknowledge the Kentucky Department for Public Health and the University of Kentucky in the sustainability of KIPRC as a statewide resource for Kentuckians' safety.

Keep safe and healthy,

Terry Bunn, Director

Kentucky Injury Prevention and Research Center

# Kentucky Occupational Safety and Health Surveillance Program (KOSHS)

## Project Overview

The goal of the KOSHS Program is to establish and maintain partnerships among local, state, and national agencies and organizations so that the safety and health concerns of Kentucky workers are identified and targeted research is initiated. The KOSHS Program maintains comprehensive multi-source population-based surveillance of occupational injuries and illnesses occurring in Kentucky using 26 occupational health indicators. Findings are shared through reports, newsletters, web-based information, presentations, trade journals, magazines, and peer-reviewed publications. The ultimate goal of the KOSHS Program is to reduce the burden of occupational injuries in Kentucky.

## Accomplishments and Service

- The KOSHS program is collaborating with the CT and MI state-based occupational health surveillance programs on Behavioral Risk Factor Surveillance System (BRFSS) self-reported work-related dermatitis data. The results are currently being developed into a multi-state manuscript for peer-review.
- The KOSHS program is working with the LA, NC, and FL state-based occupational health surveillance programs on the development of a work-related heat illness indicator and a multi-state manuscript for peer-review.
- A KOSHS/KY FACE Facebook page was implemented in February 2013 and can be accessed at: <http://www.facebook.com/KOSHASKYFACE?ref=hl>
- The KOSHS program has been instrumental in the establishment and maintenance of the Southern States Occupational Health Network (SouthON). Our second SouthON meeting was held on December 4, 2012, in Tampa, FL. Forty-five participants attended with representation from 12 of the 13 southeastern states. In the meeting evaluation, participants said that learning about state activities was the most valuable information taken away from the meeting; 94% said they would attend future SouthON meetings. An oral presentation entitled, “Getting High on Prescription Drug Safety in Kentucky- Research to Policy” was delivered at the SouthON meeting on December 4, 2012.
- The Kentucky Trauma Registry work-related indicator was used to produce the Kentucky Trauma Registry report that contained sections on 1) work-relatedness; 2) trauma registry cases by the work-related indicator and drug use indicator; 3) work-related trauma by industry; and 4) expected payer of workers’ compensation.
- An abstract was accepted for the 2013 AIHce meeting held May 18-23, 2013, in Montreal on the evaluation of the work-related back disorder occupational health indicator. The abstract is entitled, “Evaluation of the Occupational Health Indicator for Work-Related Low Back Disorder Hospitalizations and its Potential for Comprehensive Surveillance of Work-Related Low Back Disorders.”
- The KOSHS program published a study in the *Journal of the Kentucky Medical Association* entitled, “Emergency Department Visits and Hospitalizations with Concussion Diagnoses in Kentucky.” An APHA poster on work related concussions was presented at the American Public Health Association meeting on October 28, 2012, in San Francisco, CA. A peer-reviewed manuscript is currently being developed based on the results of the study.
- A poster on drugged driving, Identification of Drugs in Injured Drivers, was presented at the American Public Health Association meeting on October 29, 2012, in San Francisco, CA. The results of the study will be published in *Traffic Injury Prevention*.

- A KOSHS study entitled, “Concordance of Motor Vehicle Crash, Emergency Department, and Inpatient Hospitalization Datasets in the Identification of Drugs in Injured Drivers” was accepted for publication in *Traffic Injury Prevention*. In addition, an oral presentation on the study was delivered at the World Injury Meeting on October 2, 2012, in Wellington, New Zealand.
- An abstract entitled, “Surveillance and Identification of Risk Factors for Work-Related Trauma, 2011” was accepted for the APHA conference in November 2013 in Boston, MA.
- The KOSHS program participates in a CSTE Drug Overdose Workgroup that is currently testing the Injury Surveillance Workgroup’s (ISW7) Consensus Recommendations for Poisoning Surveillance at national, state, and local levels. The improved understanding of how to identify fatal and non-fatal cases involving acute/chronic drug/ non-drug poisoning and the consensus on standardized framework for poisoning reporting is important for work-related state surveillance and the identification of drug and alcohol use/abuse in working populations and their contribution to workplace injuries. The results were presented at the Safe States meeting in Baltimore, MD, in June 2013 and at the CSTE meeting in Pasadena, CA, in June 2013.

## Publications

- Bunn, TL, Singleton, M, Slavova, S, Nicholson, V. 2013. Concordance of Identified Drugs in Injured Motor Vehicle Drivers Using Linked Motor Vehicle Crash, Emergency Department, and Inpatient Hospitalization Datasets. *Traffic Injury Prevention* (accepted).
- Slavova, S, Bunn, TL, Singleton, M, Bush, H, Livingston, S. 2012. Emergency Department Visits and Hospitalizations with Concussion Diagnoses. *Journal of the Kentucky Medical Association* 110:191-198.
- Kentucky Injury Prevention and Research Center, 2012. Drug Overdose Morbidity and Mortality in Kentucky, 2000- 2010. The Lexington Herald Leader, and at least 18 national media outlets including newspapers, radio shows, and television, picked up the story and KOSHS personnel were interviewed.
- Kentucky Injury Prevention and Research Center, 2013. Occupational Health in Kentucky Counties 2009-2011.
- Kentucky Injury Prevention and Research Center, 2012. KOSHS Annual Report 2012.

## Key Personnel

Terry Bunn, PhD

Svetla Slavova, PhD

Kim Browning, MPH

## Other Organizations or Institutions Represented

Kentucky Trauma Registry

## Funding

National Institute for Occupational Safety and Health

## Contact

Terry Bunn, [tlbunn2@uky.edu](mailto:tlbunn2@uky.edu)

# Kentucky Fatality Assessment and Control Evaluation Program (FACE)

## Project Overview

The goal of the Kentucky Fatality Assessment and Control Evaluation (KY FACE) Program at the Kentucky Injury Prevention and Research Center (KIPRC) is to study the circumstances surrounding worker fatalities in order to make recommendations to prevent similar incidents from recurring in the future. The KY FACE Program conducts multi-source surveillance of all occupational fatalities in Kentucky and performs detailed investigations of selected cases, particularly those involving the truck transportation and construction industries. Detailed reports, hazard alerts, and other prevention materials are produced and widely disseminated. The FACE Program does not seek to determine fault or place blame on companies or individual workers. We endeavor to share what we have learned to prevent future occupational fatalities in Kentucky.

## Accomplishments and Service

- Developed and disseminated Hazard Alerts on tire failures and distracted driving.
- Investigated and reported on several occupational fatalities with an emphasis on those that involved the trucking industry. Four reports have been disseminated and published on our website and four reports are pending. All KY FACE materials developed can be found on our website: <http://www.mc.uky.edu/kiprc/projects/KOSHS/index.html>
- Developed and disseminated a tool-box talk on driver fatigue for commercial drivers.
- Investigated and reported on a fatal occupational collision due to a ladder that fell out of a pickup truck. Resulting from this, the FACE program is collaborating with the American Ladder Institute on a draft pickup truck ladder securement poster. A draft 8.5” by 11” poster has been designed by the University of Kentucky graphic department, and depicts 1) a ladder secured in a pickup truck bed with the tailgate in both the “down” and “up” positions; and 2) a drawing of a ladder not properly secured that has fallen onto the roadway. The poster will be distributed to ladder manufacturers and to hardware stores. The FACE program has also approached the Senior Safety Director at Home Depot, to locate the finalized poster in their stores as well.
- Upon request by the Kentucky Motor Transport Association, the FACE program testified before the Senate Transportation Committee on February 27, 2013, on behalf of Senate Bill 96 2013 which mandates annual driver safety training on commercial carriers registering for interstate licenses. SB 96 passed the Kentucky Senate and House and was signed by the Governor. The FACE program will play an integral role in the planning and evaluation of the proposed commercial driver safety training and include KY FACE materials on fatigue, distraction, and alerting drivers of locations in Kentucky of high crash corridors. The link to the SB 96 2013 is: <http://www.lrc.ky.gov/record/13rs/sb96.htm>
- Based on a FACE occupational roadway safety surveillance presentation to the Governor’s Executive Committee on Highway Safety on November 29, 2012, in Frankfort, KY, the FACE Program was asked by the Kentucky Office of Highway Safety to present on commercial vehicle roadway safety initiatives at the Kentucky Lifesavers conference in Louisville, KY in August 2013.

## Publications

- Bunn, TL, Slavova, S, Robertson, M. 2013. Motor vehicle injuries among semi truck drivers and sleeper berth passengers. *Journal of Safety Research* 44:51–55.

- Bunn, TL, Slavova, S, Robertson, M. 2012. Crash and Burn? Vehicle, Collision and Driver Factors that Influence Motor Vehicle Collision Fires. *Accident Analysis & Prevention* 47:140-145.
- Bush, AM, McKee, SE, Bunn, TL. 2013. Multiple Jobholder Mortality Patterns in Kentucky: An Examination of Occupational Fatalities, *American Journal of Industrial Medicine* doi: 10.1002/ajim.22156 [Epub ahead of print].
- Kentucky Injury Prevention and Research Center, 2012. Kentucky FACE Program 2011 Annual Report.

## Key Personnel

Terry Bunn, PhD

Svetla Slavova, PhD

Nancy Hanner, BS

Kim Browning, MPH

## Other Organizations or Institutions Represented

Kentucky Motor Transport Association

## Funding

Centers for Disease Control (CDC) and National Institute for Occupational Safety and Health (NIOSH)

## Contact

Terry Bunn, [tlbunn2@uky.edu](mailto:tlbunn2@uky.edu)

## Kentucky Violence and Injury Prevention Program (KVIPP)

### Project Overview

The Kentucky Violence and Injury Prevention Program (KVIPP) includes a Kentucky state injury and violence prevention and control (IVPC) plan, as well as an injury community planning group (ICPG) called the Kentucky Safety and Prevention Alignment Network (KSPAN). The purpose of KVIPP is to identify priority focus areas for interventions and policy making, by using effective delivery systems for the dissemination, implementation and evaluation of best practice programs and policies. Current priority focus areas include falls among older adults, teen driver and child passenger injury prevention, child maltreatment, residential fire, and drug abuse.

KVIPP develops and implements the IVCP plan by developing and achieving SMART (specific, measurable, achievable, relevant, time-framed) goals, objectives and activities, and KIPRC is a support center for Safe Communities within Kentucky. Inpatient hospitalization, emergency department (ED) and multiple cause of death data are collected and analyzed to support violence and injury prevention activities throughout the state, and to submit to the CDC. KVIPP works with KSPAN partners to identify, support and evaluate program and policy interventions within the priority focus areas and collaborates with ICPG partners to affect policy.

### Accomplishments and Service

- Reviewed, synthesized and disseminated data to stakeholders, and made county level data available to communities for local injury prevention capacity building. A web-based data system (IBIS-PH) is being developed to make Kentucky injury data and information easily accessible to the public.
- Submitted injury indicator spreadsheets to CDC.
- Promoted older adult fall prevention using radio PSAs throughout the state. Governor Beshear prepared a video and radio PSA on fall prevention for older adults that is promoted to cable TV networks. An annual falls summit was held in June 2013 to promote state and community level activities around Fall Prevention.
- Provide support for Kentucky's NOFALLS website: [www.nofalls.org](http://www.nofalls.org)
- Produce a KSPAN bi-monthly newsletter on violence and injury prevention in Kentucky.
- Hold quarterly KSPAN meetings to share information and ideas on injury prevention.
- Developed a new website ([www.safekentucky.org](http://www.safekentucky.org)) which contains community injury profiles for all 120 KY counties as well as other injury databases and reports.
- Received funding from the National Safety Council and the UK College of Public Health to support a five year pilot project to promote Safe Communities in KY. NSC provided support staff, and resources for the project, and solicited support from NSC member corporations. KSPAN members set up meetings with key stakeholders across the state and invited KVIPP staff to speak at numerous conferences across the state. Governor Beshear produced a video congratulating Murray State University for its designation as a Safe Community. KIPRC was designated an affiliate Safe Communities Support Center in 2012 and supports this activity. The Safe Communities Kentucky project will have an evaluation component.
- The KDPH Osteoporosis Program provides annual funding for fall prevention initiatives coordinated by the KY Safe Aging Coalition. KVIPP staff worked with KDPH and other KSPAN key stakeholders to secure additional project support at the state and local levels. For example, Kentucky Board of Emergency Medical Services (KBEMS) provided EMS contacts in every county, space to hold meetings, and data specific to lift-assist and fall-related injury calls. This data will bolster the community falls profiles provided to each county and assist in developing falls coalitions. KVIPP staff is providing materials and training to EMS personnel (continuing education credit), and disseminating prevention materials to fall victims.



- Evaluated fall prevention coalitions and their service areas through falls statistics, EMS calls, contacts, use of home falls assessments during non-transport lift assist emergency calls, and use of evidence-based programs.
- Partnered with UK College of Pharmacy faculty to evaluate the effects of HB1 on substance treatment admissions, emergency department admissions, inpatient hospitalizations and deaths from drug overdoses.

## Publications

- Bunn T, Slavova S. 2012. Drug Overdose Morbidity and Mortality in Kentucky, 2000-2010.
- Stanek M, Singleton M, Slavova S, Bunn T. 2012. Kentucky Child Maltreatment Emergency Department Visits to Kentucky Non-Federal Acute Care Hospitals, 2008-2010.
- Singleton M, Pope K, Slavova S. 2013. Kentucky Injury Indicators, 2010.
- Kentucky Injury Prevention and Research Center, 2013. CDC Special Emphasis Report: Infant and Early Childhood Injury, 2010.
- Kentucky Injury Prevention and Research Center, 2013. CDC Special Emphasis Report: Traumatic Brain Injury.
- Commonwealth of Kentucky, 2013. Kentucky Violence and Injury Prevention Plan.
- Singleton M. 2013. KSPAN Policy Brief: Kentucky's Inpatient Outpatient (IPOP) data collection system, Recommended practices for documenting injury-related discharges.

## Key Personnel

Terry Bunn, PhD  
 Steve Sparrow, BS  
 Svetla Slavova, PhD  
 Genia McKee, BA  
 Robert McCool, MS  
 Susan Pollack, MD  
 Mike Singleton, MS  
 Julie Lasslo, MS  
 Sara Robeson, PhD  
 Sarojini Kanotra, PhD, MPH, CHES

## Other Organizations or Institutions Represented

KSPAN currently has 340 organizations and members who receive information about violence and injury prevention and are supported by KVIPP staff.

## Funding

Centers for Disease Control and Prevention (CDC)  
 KY Department for Public Health, Osteoporosis Branch

## Contact

Steve Sparrow, [steve.sparrow@uky.edu](mailto:steve.sparrow@uky.edu)

## Kentucky Safe Communities (KSC)

### Project Overview

In 2012, the Kentucky Safety, Prevention, and Alignment Network (KSPAN) and KIPRC entered into partnership with the National Safety Council (NSC), and KIPRC was designated a certified Safe Community Support Center to promote the Safe Community model and establish Kentucky Safe Communities (KSC). The Safe Communities community coalition approach has been shown to be effective in saving lives. A recent NSC study ([http://www.nsc.org/safety\\_work/SafeCommunitiesAmerica/Pages/Resources.aspx](http://www.nsc.org/safety_work/SafeCommunitiesAmerica/Pages/Resources.aspx)) showed that most Safe Communities included in this study had a 10% average reduction in both intentional and unintentional injury rates. The Safe Communities designation is only awarded to communities that have demonstrated leadership in promoting safety, reducing injuries and preparing for natural and man-made disasters.

The KSC pilot program creates a partnership between communities, public health and corporate interests to reduce injury rates in Kentucky. If successful, the program model will be spread to other states. As an Affiliate Support Center, KSC assists communities in the United States with their Safe Communities process and applications.

The overarching goals of this five year partnership are to have 50% of the State's population living within the geographic boundaries of a Safe Community, establish the Safe Communities model throughout Kentucky colleges and universities, and to evaluate the effectiveness of KSC's recruitment model.

### Accomplishments and Service

- Applied for and became certified as a Safe Communities Affiliate Support Center.
- Received NSC funding for the KSC initiative--the first ever grant of its type to be awarded to an entity to build a network of Safe Communities within a specific geographical boundary.
- Presented on prescription drug abuse at the 2012 Safe Communities America networking conference.
- Presented a KSC pilot program webinar hosted by CDC Injury Center and Safe States: <http://www.safestates.org/displaycommon.cfm?an=1&subarticlenbr=319>
- On December 7, 2012, Murray State University became the first public university designated as a Safe Community and the third university in the world, joining the University of Southern California and Emory University. Governor Beshear proclaimed December 7, 2012, Murray State University Safe Community Day. The video of Governor Beshear's address to the Murray/Calloway County Chamber of Commerce is available on YouTube at: [http://www.youtube.com/watch?v=YqaCcD\\_fes8\\_](http://www.youtube.com/watch?v=YqaCcD_fes8_)

### Publications

County Level Injury Data Profiles for all 120 Kentucky Counties

### Key Personnel

Genia McKee, BA  
Steve Sparrow, BS

### Funding

National Safety Council

### Contact

Genia McKee, [genia.mckee@uky.edu](mailto:genia.mckee@uky.edu)

## Community Injury Prevention Program (CIPP)

### Project Overview

The Community Injury Prevention Program (CIPP) provides community-oriented prevention services. CIPP projects include residential fire prevention and mitigation, highway safety and child passenger safety, all-terrain vehicle safety, community capacity building and other intervention projects. Funding comes from a combination of Kentucky Department for Public Health injury prevention funding and federal funds from FEMA and CDC. CIPP personnel work closely with public safety agencies, local public health departments, and other community organizations to promote safety and reduce injuries.

### Accomplishments and Service

- Working with fire departments, public health departments, Head Start agencies, and other community organizations to install more than 3,000 long life, lithium battery powered smoke alarms in Kentucky homes.
- Provided carbon monoxide (CO) detectors to 79 nursing homes in a program developed cooperatively with the Cabinet for Health and Family Services, Office of the Inspector General.
- Currently working cooperatively with the Department for Public Health's Child Care Health Consultants program to provide CO detectors to licensed family child care homes across the Commonwealth.
- Established the Kentucky Child Passenger Safety (CPS) Coordinating Committee to bring together the key agencies involved in child passenger safety training and promotion in Kentucky.
- Created a website to provide up-to-date CPS information and facilitate communication between CPS technicians and advocates in Kentucky.
- Provided instructors for three CPS technician training courses.
- Provided fire and injury prevention training for more than two hundred public safety personnel.
- Operating alternative sentencing programs for child restraint law violators in four counties.
- Provided technical assistance to public safety agencies to support grant writing efforts related to fire prevention, traffic safety and school safety.
- Developed and disseminated training materials for fire prevention practitioners.
- Provided support for numerous community health and safety promotion events.
- Currently working cooperatively with the Kentucky Fire Marshal's Office to help improve the tracking of smoke alarms provided to local agencies through the Fire Marshal's Office, and to build a statewide fire prevention coalition.

### Key Personnel

Robert McCool, MS

Ron Clatos, MS

Thomas Haynes, RN

### Funding

Federal Emergency Management Agency (FEMA) for residential fire prevention

### Contact

Robert McCool, [rhmccool@gmail.com](mailto:rhmccool@gmail.com)

## Pediatric and Adolescent Injury Prevention Program (PAIPP)

### Project Overview

The Pediatric and Adolescent Injury Prevention Program has two major goals: 1) to prevent injury and injury-related death to Kentucky children by improving the safety of the environments in which they live, learn, and travel, and 2) to improve the quality of child death and injury data upon which prevention efforts rest through support for the child death review process at the local county level. While some prevention efforts are addressed directly to the public, this program's major role is to support state and local agencies through education and technical assistance, who in turn reach the public. This program also serves an educational role for health and other professionals on the epidemiology and prevention of childhood injury at different ages and developmental stages. PAIPP personnel act as consultants for questions about child passenger safety for individual children with special needs, while at the same time providing health education about the entire spectrum of pediatric intentional and unintentional injuries from birth to 18, from safe sleep and hyperthermia prevention to teen driving and suicide prevention.

### Accomplishments and Service

- Reached more than 3,500 Kentuckians with injury prevention education in addition to those reached through the agencies supported by PAIPP (local health departments, child care health consultants, home visitors, school family resource centers). Provided car seats for low-income families in more than 20 counties and safety education to more than a dozen counties and 18 medical practices.
- Helped to train and sustain a rural workforce (health department, fire EMS, coroner, and KY State Police) of nationally certified child passenger safety technicians through outreach, to help them maintain their certification without lapse.
- Worked with national Safe Kids to hold Kentucky hyperthermia deaths to one child in the summer of 2012, despite multiple children being left in cars. Tragedies were averted thanks to massive public education, public awareness, and calls to 911 when children were observed unattended in cars.
- Continued training on child passenger safety for child care directors and transporters.
- Contributed guidance on child passenger safety for child care van transport:  
<http://www.kentuckypartnership.org/toolsandtips.aspx>  
<http://chfs.ky.gov/NR/rdonlyres/337605CB-68EC-44B4-BE5E-070A47EDB894/0/DivisionofChildCareECEINSIDER.pdf>
- Supported child fatality review efforts of coroners (through their annual conference) and county-level review in the eastern half of Kentucky including Kenton, Estill, Jackson, Bell, Cumberland/Clinton, and Hardin counties.

### Publications

- Contributors to: American Academy of Pediatrics, American Public Health Association, National Resource Center for Health and Safety in Child Care and Early Education. **Stepping Stones to Caring for Our Children: National Health and Safety Performance Standards; Guidelines for Early Care and Education Programs**, 3rd Edition. 2012. Elk Grove Village, IL: American Academy of Pediatrics; Washington, DC: American Public Health Association.  
<http://nrckids.org/SPINOFF/SteppingStones/index.htm>
- Kentucky Department for Public Health, Kentucky Injury Prevention and Research Center, 2013. Kentucky Special Emphasis Report: Infant and Early Childhood Injury, 2010.

## Key Personnel

Susan H. Pollack, MD

Melanie Tyner Wilson, MS

## Funding

Eighteen year contract with KY Department for Public Health/Division of Maternal and Child Health (through federal MCHB Block Grant), support from University of Kentucky Department of Pediatrics, CDC Core Injury and Motor Vehicle Policy grants, Toys “R” Us® grant through Injury Free Coalition for Kids of Lexington at KY Children’s Hospital; Kellogg Head Start car seat grant through Safe Kids, Johnson & Johnson Sports Safety Grant through Safe Kids.

## Contact

Susan H. Pollack, [shpoll@uky.edu](mailto:shpoll@uky.edu)

Melanie Tyner-Wilson, [mtyner@uky.edu](mailto:mtyner@uky.edu)

## Kentucky Violent Death Reporting System (KVDRS)

### Project Overview

Violence is a nationwide health problem that results in over 50,000 homicides and suicides each year. In order to better understand why violent deaths occur, the CDC developed the National Violent Death Reporting System (NVDRS), a nationwide state-based surveillance system designed to track trends and characteristics of violent deaths with the goal of reducing these deaths. Kentucky joined the NVDRS September 1, 2005 as one of 17 funded states; 18 states are now funded. All participating states are required to collect information about violent deaths from the following investigating agencies: police departments, coroners, medical examiners, forensic crime laboratories and toxicology laboratories.

### Accomplishments and Service

- Cerel, J, van de Venne, J, Moore, M, Maple, M, Walsh, S, Flaherty, C. 2013. Exposure to Suicide Veterans and Community Members: A Random Digit Dial Study. Poster Presentation at the American Association of Suicidology, Austin, TX.
- Lead Author and Organizer. Representatives from 18 states. 2013. Deaths from Violence: A Look at 18 States (Data from the National Violent Death Reporting System 2009-2010). Report to American College of Preventive Medicine for distribution to Congress.

### Publications

- Logan J, Walsh S, Nimesh P, Hall J. 2013. Homicide-Followed-By-Suicide Incidents Involving Child Victims. *American Journal of Health Behavior*. (374):531-542.
- Walsh S, Charnigo R. 2012. An Ecological Approach to Preventing Suicide Using the National Violent Death Reporting System and County Level Health Status Data. *Suicidology Online*. 3:92-101.

### Key Personnel

Sabrina Walsh, DrPH

### Funding

Centers for Disease Control and Prevention (CDC)

### Contact

Sabrina Walsh, [sabrina.walsh@uky.edu](mailto:sabrina.walsh@uky.edu)

Julie Cerel, [julie.cerel@uky.edu](mailto:julie.cerel@uky.edu)

## Kentucky Crash Outcome Data Evaluation System (CODES)

### Project Overview

Kentucky's Crash Outcome Data Evaluation System (CODES) was formerly funded by the National Highway Safety Traffic Administration (NHTSA). The purpose of this project is to link state motor vehicle traffic crash report databases to administratively unrelated databases that contain medical and economic information pertaining to persons involved in crashes. These linked databases enable investigators to discover relationships between crash characteristics and injury outcomes for persons hospitalized as a result of motor vehicle crashes (MVC), and to assess the acute care hospital charges associated with their treatment. NHTSA officially ended the CODES program in March 2013, but data linkage is ongoing.

### Accomplishments and Service

- Presented a research paper, "Differences in protective effect of motorcycle helmets by nature of traumatic brain injury," at the 2012 CODES Annual Meeting.
- Presented "Concordance of motor vehicle crash, emergency department and inpatient hospitalization datasets in the identification of drugs in injured drivers" at the 2012 World Injury Conference in New Zealand.
- Created and submitted CODES General Use Model dataset for 2008.
- Participated in the 2012 Kentucky traffic records assessment.
- Served on the Kentucky Traffic Records Advisory Committee and chaired the subcommittee on EMS and Injury Data.
- Partnered with the Kentucky Transportation Center on a proposal titled, "Kentucky Traffic Records Integration Project," that provides continuation funding for activities formerly funded by the NHTSA CODES program.

### Publications

Bunn T, Singleton M, Slavova S, Nicholson V. 2013. Concordance of Motor Vehicle Crash, Emergency Department, and Inpatient Hospitalization Datasets in the Identification of Drugs in Injured Drivers. *Traffic Injury Prevention* (in press).

### Key Personnel

Mike Singleton, MS

### Other Organizations or Institutions Represented

Kentucky State Police  
Kentucky Cabinet for Health and Family Services  
Kentucky Transportation Cabinet  
Kentucky Transportation Center  
Federal Highway Administration

### Funding

National Highway Traffic Safety Administration (NHTSA)

### Contact

Mike Singleton, [msingle@email.uky.edu](mailto:msingle@email.uky.edu)

## Central Nervous System Injury Surveillance (CNSI)

### Project Overview

The Central Nervous System Injury (CNSI) Surveillance Project is funded by the Kentucky Traumatic Brain Injury Trust Fund Board which is housed in the Department of Aging and Independent Living (DAIL). Its purpose is to track cases of traumatic brain injury, spinal cord injury, and acquired brain injury as defined by the Centers for Disease Control and Prevention (CDC) and the Kentucky Revised Statutes (KRS 211.470). Cases are taken from the Kentucky Hospital Discharge Database (HDD) which includes both emergency department (ED) visits as well as inpatient admissions. A report is generated annually using these data with 2010 being the first year to include ED cases.

### Publications

Kentucky Injury Prevention and Research Center, 2012. Central Nervous System Injury in Kentucky: Emergency Department Visits and Hospitalizations, 2011.

### Key Personnel

Shannon Beaven, BS

### Funding

Traumatic Brain Injury Trust Fund Board, Department of Aging and Independent Living

### Contact

Shannon Beaven, [slbeav1@email.uky.edu](mailto:slbeav1@email.uky.edu)



# Kentucky Trauma Registry

## Project Overview

In 2012, Kentucky administrative regulations (902 KAR 28:040) established a single statewide Kentucky Trauma Registry (KTR) with the Kentucky Injury Prevention and Research Center (KIPRC) designated as the statewide repository for trauma data. Hospitals that have been verified by the American College of Surgeons (ACS) as trauma centers are required to report in compliance with National Trauma Data Bank (NTDB) standards as a condition of their status. The goal of the project, funded by the Kentucky Transportation Cabinet, is to expand the Kentucky Trauma Registry by adding new trauma facilities, in order to improve the completeness of the Kentucky traumatic injury data, especially for Kentucky motor vehicle injuries – the state’s leading cause of major traumatic injuries.

## Accomplishments and Service

- In October, 2012, the Kentucky Department for Public Health designated the first 10 hospitals as part of the Kentucky Trauma Care System: Level 1 adult includes the University of Kentucky (UK) Chandler Medical Center (Lexington), the University of Louisville Hospital (Louisville); Level 1 pediatric includes the UK/Kentucky Children's Hospital (Lexington), Norton's Kosair Children's Hospital (Louisville); Level 3 includes Taylor Regional Hospital (Campbellsville), Ephraim McDowell Regional Hospital (Danville); and Level 4 includes Livingston County Hospital (Salem), Marcum & Wallace Hospital (Irvine), Ephraim McDowell Ft. Logan Hospital (Stanford), James B. Haggin Memorial Hospital (Harrodsburg).
- Designated hospitals submit data to the KY Trauma Registry. In addition, a few new facilities in the process of seeking designation as trauma centers also submitted data to the statewide trauma registry in 2012. These facilities were: Crittenden County Hospital, Frankfort Regional Medical Center, Harrison Memorial Hospital, Owensboro Medical Center, Pikeville Medical Center, Spring View Hospital, St. Joseph Berea, and Trigg County Hospital.
- The total number of records submitted to the Kentucky Trauma Registry in 2012 was 10,044, an 18% increase compared with the records submitted for the year 2011.
- Slavova S, Bunn TL. June 2012. Surveillance of Kentucky Agricultural Machinery Injuries Using Multiple Data Sources, 2008-2010, International Society for Agricultural Safety and Health (ISASH). Presentation.
- Slavova S, Bunn TL. October 2012. Surveillance of work-related concussions, American Public Health Association. Presentation.
- Bunn TL, Slavova S. May 2012. Surveillance of Drug Poisonings in Kentucky Using Multiple Data Sources, 2012 Safe States Joint Annual Meeting. Presentation.

## Publications

- Detailed reports, profiling the traumatic injuries treated in Kentucky trauma facilities, are available at <http://www.mc.uky.edu/kiprc/projects/trauma/index.html>

## Key Personnel

Svetla Slavova, PhD  
Julia F Costich, PhD, JD

## Funding

Kentucky Transportation Cabinet

## Contact

Svetla Slavova, [ssla2@email.uky.edu](mailto:ssla2@email.uky.edu)

## KIPRC Internal Support

The Kentucky Injury Prevention and Research Center is grateful for the technical support provided by the University of Kentucky College of Public Health, the graduate students who work with us, and especially to staff member Freda Francis, whose careful accounting of grant funds and support of KIPRC staff make our projects and outreach work possible.