

2017 ANNUAL REPORT

Content

Message from the Executive Director	1	
Mission Statement	2	
Fast Facts	3	
Board Members	4 - 6	
Notable Board Actions	7 - 8	
Committees of the Board	9 - 13	
KBEMS Staff	14	
Agency Accomplishments	15 - 18	
Mission Lifeline	19	
2017 Solar Eclipse	20	
EMS EMAC Task Force 15	21	
Ambulance Block Grant	22	
NIOSH Pilot Study	23	
EMS Vehicles	24	
Kentucky Agencies	25	
Training & Educational Institutions	26	
Educators	27	
Kentucky Providers	28	
2017 Incidents	29 - 33	
Incident Destinations	34	
Ground Transports	35	
Air Medical Transports	36	
Naloxone Administrations	37	
Highway Safety	38	
Cardiac Arrest Incidents	39	
Community Paramedicine Pilot	40	
Attrition Survey	41	
Current Projects of the Board	42 - 43	

Message from the Executive Director



Twenty four hours a day, seven days a week Emergency Medical Service Responders in our Commonwealth are delivering exceptional pre-hospital emergency medical care. What we do in Emergency Medical Services is important. EMS is a necessary service that is vital for our community and the nation. EMTs and Paramedics are the healthcare safety net for all of us. We're there for everyone when they need us, on their terms, doing what's best for them. We come to them, meet them as they are, and give them the best that we have to offer. EMS workers are usually the first to arrive on the scene of a car accident, a crime scene, a disaster, or a fire. They never know what they will face when they arrive, and often their own lives are in danger when they do. They kneel down to render life-saving aid along busy highways, outside burning buildings, and on crime-infested streets. While they are usually the first on the scene, they are often the last to seek recognition. EMS workers do their jobs because they want to save lives, pure and simple.

The Kentucky Board of Emergency Medical Services strives to maintain and improve a unified comprehensive and effective EMS system within the borders of Kentucky ensuring that the EMS system is recognized as a leader and a role model that other EMS systems attempts to equal. We do this by promoting excellence through regulations, promoting healthy communities and encouraging community support, providing value-added information for emergency preparedness, public health, EMS research and strategic governance, and developing and managing information, standards and guidelines for EMS providers.

With our new KSTARS (Kentucky State Ambulance Reporting System) in place, we will have the resources to provide very detailed reports on activity involving Emergency Medical Services in Kentucky. This will also allow us to be more involved in research to improve health and safety across the Commonwealth.

As Executive Director, I can humbly say that our staff proudly accepts the challenge to move EMS forward in the Commonwealth of Kentucky. I am confident that through hard work and dedication, we will continue to strengthen what is in place and reach new heights in the years ahead.

Milal Van

Michael Poynter, Executive Director Kentucky Board of Emergency Medical Services



Mission Statement

KBEMS mission is to ensure availability of high quality emergency medical services for the Commonwealth of Kentucky through collaboration with EMS providers and agencies by:

Ensuring quality, competent EMS care through effective oversight, communication, and education;

Advancing professionalism of EMS providers and agencies; Promoting the health and safety of patients, EMS professionals, and agencies; and

Providing leadership for EMS.

KBEMS accomplishes this mission through:

- Credentialing of all EMS Responders in the State.
- Annual Inspections of all EMS Agencies and initial and annual inspections of ambulances licensed in Kentucky.
- Administration of ambulance grant funding.
- Processing of all initial EMS courses conducted by Kentucky EMS Training & Educational Institutions (TEIs).
- Certification and licensure audits.
- Approves EMS TEIs as National Registry Educational Programs.
- Investigation of complaints on any EMS Responder or Agency.
- Due process for EMS responders and agencies under pending legal action.
- Administration of discipline of EMS Responders and Agencies.
- Approval of EMS medical directors and protocols.
- Participation in disaster preparedness and mass casualty planning.
- Oversight and management of the EMS for Children (EMSC) Program.

Vision

Through transparent practices, KBEMS will ensure and promote high quality emergency medical care across the Commonwealth of Kentucky.

Values

Integrity High Quality Care Quality of Education Competent Staff Being Proactive, Not Reactive Accountability of Board, Agencies, and Individuals Highly Motivated and Progressive Board

Fast Facts



Kentucky Facts

4,436,974

Total Population 2016 US Census Bureau

\$24,063

Per Capita Income 2011 - 2015 US Census Bureau

40,408

Square Miles 2016 US Census Bureau

84%

High School Graduation Rate 2011 - 2015 US Census Bureau Emergency Medical Services is a vital component of healthcare, on any given day, in almost every community in our nation, EMS responds to calls for help, 24/7. According to the 2011 National EMS
Assessment, EMS responds to 37 million calls per year in the United States with annual expenditures of approximately \$5,000,000,000!

EMS Provider Levels

Emergency Medical Responder

EMRs have the knowledge and skills necessary to provide immediate lifesaving interventions while awaiting additional EMS resources to arrive. EMRs also provide assistance to higher-level personnel at the scene of emergencies.

Initial Training Hours = 50

Recertification Hours = 17

Emergency Medical Technician

EMTs have the basic knowledge and skills necessary to stabilize and safely transport patients ranging from non-emergency and routine medical transports to life threatening emergencies.

Initial Training Hours = 150

Recertification Hours = 24

Advanced Emergency Medical Technician

AEMTs perform interventions with the basic and advanced equipment typically found on an ambulance. The Advanced Emergency Medical Technician is an important link for administering ALS care from the scene to the emergency health care system.

Initial Training Hours = 400

Recertification Hours = 48

Paramedic

A Paramedic is an allied health professional whose primary focus is to provide advanced emergency medical care for critical and emergent patients. This individual possesses the complex knowledge and skills necessary to provide patient care and transportation.

Initial Training Hours = 2,000

Recertification Hours = 60

Board Members



David E. Bentley, M.D.

Representing: Physician licensed in Kentucky serving as medical director of an Advanced Life Support Ambulance Service.



Andrew C. Bernard, M.D. Representing: Trauma Surgeon licensed in Kentucky.



Joe Bradshaw Representing: Licensed Air Ambulance Service Administrator or Paramedic for a licensed Air Ambulance Service headquartered in Kentucky.



Carlos Coyle

Representing: Paramedic who works for a government agency but is not serving in an educational, management, or supervisory capacity.



Nancye C. Davis

Representing: Emergency Medical Services Educator from a Kentucky College that provides an EMS Educational Program.



Phil Dietz

Representing: Fire Service Based, licensed Class I Ground Ambulance Service Administrator who is a certified Emergency Medical Technician or licensed Paramedic.

Board Members



Jim Duke, Board Chairman

Representing: Advanced Life Support, government-operated Ambulance Service Administrator who is a certified Emergency Medical Technician or a Licensed Paramedic.



Timothy Dukes Representing: Hospital Administrators.



Representing: Private licensed Class I Ground Ambulance Service Administrator who is a certified Emergency Medical Technician or a licensed Paramedic who is a resident of Kentucky.



Joseph Iocono, M.D.

Todd Early

Representing: Physician licensed in Kentucky who routinely is involved in the emergency care of ill and injured children.



Jamey Locke Representing: Citizen having no involvement in the delivery of medical or emergency services.



Walter Lubbers, M.D.

Representing: Physician Licensed in Kentucky having a primary practice in the delivery of emergency medical care.

Board Members



James Nickell

Representing: County Judge/Executive from a county that operates, whether directly or through contract services, a licensed Class I Ground Ambulance Service.



Joseph Prewitt, Vice-Chairman

Representing: Volunteer-staffed, licensed Class I Ground Ambulance Service Administrator who is a certified Emergency Medical Technician or licensed Paramedic.



Aaron Stamper

Representing: Basic Life Support, Licensed Class I government-operated Ground Ambulance Service administrator who is a certified Emergency Medical Technician or a Licensed Paramedic.



Lloyd Leslie Stapleton

Representing: Mayor of a city that operates, either directly or through contract services, a licensed Class I Ground Ambulance Service.



Michael Sutt

Representing: Emergency Medical Technician - Basic, who works for a government agency but is not serving in a educational, management, or supervisory capacity.



Jimmy Vancleve

Representing: First Responder who is not serving in an educational, management, or supervisory capacity.

Notable Board Actions

- Angela Evans and William "Bill" George brought on as legal council through contract with McBrayer, McGinnis, Leslie, and Kirkland.
- Ratified the credentialing of twenty (20) new EMS Medical Directors reviewed by the KBEMS Director of Field Operations.
- Ratified fifty-two (52) Initial or modifications of EMS Protocols by Ground and Air Ambulance agencies licensed in Kentucky and reviewed by the KBEMS State Medical Advisor.
- Approved "Mobile Integrated Healthcare/ Community Paramedicine" Pilot Program applications for:
 - 1. Montgomery County Fire/EMS- Mt. Sterling
 - 2. Lexington Fire Department/EMS- Lexington
 - 3. Murray-Calloway County EMS- Murray
- Approved "Mobile Integrated Healthcare/ Community Paramedicine" Pilot Program Extensions of one (1) calendar year for:
 - 1. The Medical Center EMS- Bowling Green
 - 2. Oldham County EMS- LaGrange
 - 3. Louisville-Metro EMS- Louisville
 - 4. Yellow Ambulance (Louisville)
- Updated the National Background Check vendor from "Verified Credentials" to "Castle Branch."
- Moved to modify the data submission timelines currently in place from the 15th of the month following the month in which the incident occurred, to seventy-two (72) hours following the incident. This data submission timeline is in reference to submission of data to the Kentucky State Ambulance Reporting System (KSTARS).
- Moved to require the following NEMSIS Version 3 data elements as of April 13, 2017:
 - eOther.03- Personal Protective Equipment Used
 - eOther.04- EMS Professional (Crew Member) ID
 - eOther.05- Suspected Work Related Exposure, Injury, or Death
 - eOther.06- The Type of Work-Related Injury, Death or Suspected Exposure
- Accepted the following CPR training courses as submitted and reviewed for Kentucky EMS Professionals:
 - Pacific Medical Training
 - EMS Safety Services, Inc.
 - Ellis & Associates, Inc.
- Accepted the following programs as a "Board-Approved" EMS Instructor Course:
 - Eastern Kentucky University- EMC 440 EMS Instruction Course (3 College Credit Hours)
- Approved 2017-2018 KBEMS Annual Budget as submitted.

Notable Board Actions

- Approved a statewide, five (5) year waiver for Activated Charcoal pending the elimination of Activated Charcoal through pending Administrative Regulations, effective June 15, 2017.
- Approved Cardiac & Stroke Care Subcommittee Prehospital Stroke Protocol to include the Emergent Large Vessel Occlusion (ELVO) assessment tool and destination guidance.
- Approved the formation of a KBEMS State EMS Protocol Work Group to continuously review and update the KBEMS State EMS Protocol. This group will meet at least semi-annually. The Work Group will be appointed by the KBEMS Chairperson and shall be comprised of working Kentucky licensed Paramedics. The Chair of the EMS Protocol Work Group shall be the KBEMS State Medical Advisor.
- Honored the 2017 American Heart Association- Mission Lifeline EMS Award Recipients:
 - Mercy Regional EMS, Paducah
 - Madison County EMS, Richmond
 - The Medical Center EMS, Bowling Green
 - Woodford County EMS, Versailles
 - Boyle County EMS, Danville
 - Lexington Fire & EMS, Lexington
 - Independence Fire District, Independence
 - Estill County EMS, Irvine
 - Air Methods Kentucky
 - Meade County EMS, Brandenburg
 - Owensboro Health-Muhlenberg EMS, Powderly
 - Bullitt County EMS, Shepherdsville
 - Shelby County EMS, Shelbyville
 - Jessamine County EMS, Nicholasville
 - Powell County Ambulance Service, Stanton
 - Louisville-Metro EMS, Louisville
 - Garrard County EMS, Lancaster
 - Erlanger Fire/EMS, Erlanger
 - Georgetown-Scott County EMS, Georgetown
- Mr. James C. Duke elected KBEMS Board Chair for 2018.
- Mr. Joseph Prewitt elected KBEMS Vice-Chair for 2018.
- Approved for promulgation 202 KAR 7:501- Ambulance Agency Licensure, 202 KAR 7:545- License Classifications, 202 KAR 7:550- Required Equipment and Vehicle Standards, 202 KAR 7:555- Ground Agencies, and 202 KAR 7:560- Ground Vehicle Staff to replace current ground ambulance regulations in place under 202 KAR 7:501 (eff. 2003)- To Legislative Research Commission- February, 2018.
- Approved for promulgation 202 KAR 7:565- Clinical Pilot Programs- To Legislative Research Commission- February, 2018.

The Kentucky Board of Emergency Medical Services has multiple committees and subcommittees that meet throughout the year to focus on specific topics and initiatives.

These committees and subcommittees are comprised of both members and nonmembers of the Board. The subcommittees are charged with the strategic planning, policy development, organization, and in an advisory role to their respective standing committee and the Board.

Members shall have a term that expires September 30 of each calendar year. Reappointments for subsequent terms may be made by the Board Chair anytime after September 1 and before September 30.

> Meeting dates and meeting minutes can be located on KYEMS.com.





Committees of the Board

Executive Committee

Education Committee

EMSC Committee

Data Collection Committee

Medical Oversight Committee

Subcommittees of the Board

Cardiac and Stroke Care

Disaster Preparedness and Mass Casualty Incidents

Mobile Integrated Healthcare and Community Paramedicine

118 James Court, Suite 50, Lexington, KY 40505 **KYEMS.com** (859) 256-3565

Executive Committee

The executive committee shall address legislative issues and proposals and review administrative regulations for submission to the board including:

(b) Recommending to the board promulgation of administrative regulations, amendment of administrative regulations, or repeal of administrative regulations relating to:

1. All levels of personnel licensed or certified by the board and ambulance services licensed or certified by the board;

2. Rules and operating procedures for the board and each of its standing committees and task forces;

- 3. EMS Grant Program; and
- 4. EMS for Children Program;
- (b) Serving as a resource for board staff:

1. In reviewing applications regarding requests for funding under programs administered by or overseen by the board;

2. With the development of funding programs or applications, including state and federal grants pertaining to EMS and monitoring and reviewing the grants once received by the Board;

3. With creating and recommending to the board a biennial budget for the board prior to submission to appropriate state agencies;

4. With identifying, developing and recommending to the board sources of funding for its programs; and

5. In developing reimbursement programs and providing consult for emergency medical service providers.

(c) Making recommendations to the board regarding fees to be charged by the board.



Members

Joe Bradshaw, Chair

Joe Prewitt, Vice Chair

Phil Dietz

Mike Sutt

Carlos Coyle

Ex Officio

Michael Poynter, Executive Director

Chuck O'Neal, Deputy Executive Director



118 James Court, Suite 50, Lexington, KY 40505 **KYEMS.com** (859) <u>256-3565</u>

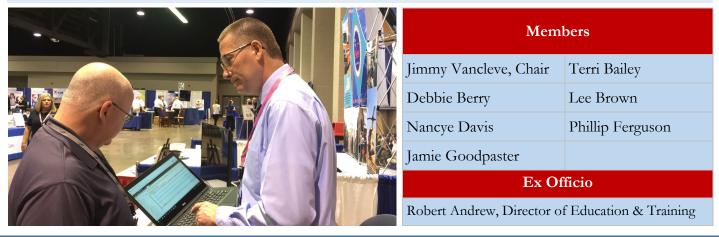
Education Committee

The Education Committee shall consist of seven (7) voting members representative of EMS Educators in the state of Kentucky. At least one (1) voting member of the Education Committee shall also be a member of the Kentucky Board of Emergency Medical Services. The Committee shall meet at least six (6) times annually. The purpose and charge of the Education Committee shall be to:

(a) Assist the board in developing a strategic plan for EMS education in the state of Kentucky;

(b) Act as a resource for EMS educators and EMS-TEIs in the Commonwealth; and

(c) Assume the lead role in formulating, drafting, and sending to the board for approval and subsequent promulgation of all administrative regulations that set the standards and requirements for EMS education in Kentucky.



Medical Oversight Committee

The medical oversight committee shall address issues pertaining to quality assurance, medical control, scope of practice, medical standards of curricula or other related issues as may be assigned by the board.

Members				
Eric Bentley, MD, Chair	Ben Wofford			
Irvin Smith, MD, Vice Chair	Aaron Stamper			
Todd Early	Walter Lubbers, MD			
Michael Reynolds				
Ex O	Ex Officio			
Dr. Julia Martin,	Chuck O'Neal,			
State Medical Advisor	Deputy Executive Director			



118 James Court, Suite 50, Lexington, KY 40505 **KYEMS.com** (859) 256-3565

EMSC Committee

The Emergency Medical Services for Children Program may include but not be limited to the establishment of the following:

(a) Guidelines for necessary out-of-hospital medical service equipment;

(b) Guidelines and protocols for out-of-hospital pediatric emergency medical services;

(c) Assistance in the development and provision of professional education programs for emergency medical services personnel for the provision of emergency care of infants and children;

(d) Coordination and cooperation between the Emergency Medical Services for Children Program and other public and private organizations interested or involved in emergency care for children;

(e) Assistance with the purchase of equipment for the provision of medical services for children only; and

(f) The scope of activities carried out by and the provision of staff for the Emergency Medical Services for Children Program shall be commensurate with the availability of funds.



Members				
Mary Fallat, Chair, EMSC Principl Investigator	e Sandra Herr, V	Vice-Chair	Morgan Scaggs, EMSC Program Director	
Scottie Day	Susan Pollack		Margaret Gupton	
Erika Janes	Melanie Tyner	-Wilson	Scottie Day	
Carol Wright				
Ex Officio				
Bari Lee Mattingly Mar	rk McDonald	Marsh Frontz	David Foley	

Data Collection Committee

The Data Collection Committee shall consist of seven (7) members appointed by the board chair in the manner established in 202 KAR 7:020.

(a) Any office of the board staff member specifically employed through or designated by the Kentucky Community and Technical College System (KCTCS) for the purpose of EMS data collection and analysis shall serve as the staff liaison for the Data Collection Committee.

(b) The Data Collection Committee shall be responsible for the following:

1. The development of a statewide plan for data collection and compliance;

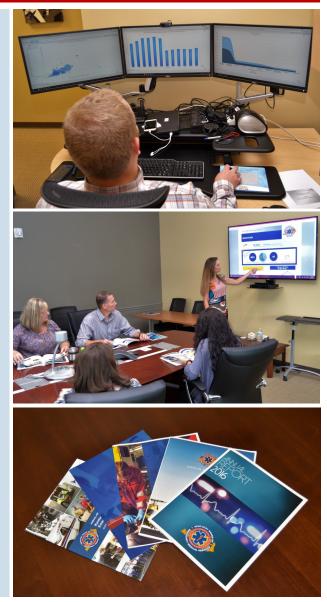
2. Identification of information initiatives for EMS in Kentucky;

3. Identification and research of funding sources tied to EMS data collection;

4. Assistance to licensed services with questions or other needs associated with this administrative regulation, KRS Chapter 311A, and other issues associated with the board's statutory authority to require data collection and submission; and

5. Matters identified by board members, the chair, or theexecutive director that involve data collection, data submission, or information use.

(c) The Data Collection Committee shall schedule on an annual basis at least six (6) regular meetings.



Members					
John Hultgren, Chair	Joe Prewitt		Sara Robeson		
Mike Rogers	Mike Singleto	on	Linda Basham		
Michael Schwendau					
	Ex Officio				
Drew Chandler, Data Administrator		Monica Robertson, Da	ata Coordinator		

The Kentucky Board of Emergency Medical Services

KBEMS Staff



Robert Andrew Director of Education & Training



Drew Chandler Data Administrator



Ray Chesney Inspector/Liaison



Courtney Collins Certification Specialist



Tina McBride Senior Administrative Assistant



Chuck O'Neal Deputy Executive Director



Paul Phillips
Director of Field Operations



Michael Poynter Executive Director



Paula Coyle Inspector/Liaison



Calynn Fields Resource Management Specialist







Sam Lowe Investigator



Dr. Julia Martin State Medical Advisor



Monica Robertson Data Coordinator



Morgan Scaggs EMSC Project Director



 Janet Sweeney

 Financial Analyst



Corissa Walters Inspector/Liaison

76% of KBEMS employees are currently or were previously certified/licensed EMS providers.

Field Operations Accomplishments

- Continued use of the online agency policy review to expedite agency inspections.
- Director of Field Operations, Paul Phillips, participated in CAAS GVS Remount Forum in Charlotte, NC.
- Participated in the 2017 Solar Eclipse pre-planning, monitoring and KY State EOC Mobilization.
- Purchased two fleet vehicles.
- Published the 2016 Kentucky EMS Attrition Survey.
- Participated with KBEMS Task Force for creating Ground Ambulance Regulations.
- Created KEMSIS Applications to simplify the process when applying for staff, equipment & medical director waivers.
- Director of Field Operations, Paul Phillips, participated with National Association of State EMS Officials Safe Transport of Children, and Agency and Vehicle Licensure Committee.

KBEMS Field Staff inspected over 220 agencies, and over 1,200 agency vehicles.

The KBEMS Field Staff traveled the equivalent of 2 trips around the earth to perform agency and vehicle inspections in 2017!

Top 10 Agency Deficiencies				
1. Activated Charcoal	6. KKK-1822 Specification			
2. Radio Equipment	7. Operating Condition			
3. Irrigation Fluids	8. AED (Non-ALS)			
4. Gown/Coveralls	9. Expiration Dates			
5. Humidifier	10. Heating/AC System			

Education & Training Accomplishments

- 202 KAR 7:20, 7:301, 7:330, 7:401, and 7:601 revisions completed and submitted for approval.
- Facilitated meetings with the certification and licensure team for the revision of all EMS provider applications.
- Created certification and licensure process manual.
- Implemented remote site visits using FaceTime for the inspection of EMS-TEI's.
- Distributed quarterly educator newsletter, Education Matters, to subscriber base of over 800 EMS providers and educators.
- Completed the five (5) year National Registry EMS provider on-line transition course for over 1,500 Kentucky EMS providers.
- Initiated digital conversion of all certification and licensure files into the Kentucky Emergency Medical Services Information System (KEMSIS).



EMSC Accomplishments

- Provided and supported pediatric education for EMS providers throughout the state.
- Represented KBEMS and EMS on multiple state and national boards and committees focused on pediatric issues.
- Morgan Scaggs serves as Chair-Elect of the Pediatric Emergency Care Council of the National Association of State EMS Officials.
- Distributed pediatric transport devices, length-based resuscitation tapes, and Safe Infant packets to EMS agencies.
- Publication of the KIDSTUFF quarterly newsletter.
- Developed a recognition program for EMS Agencies and hospitals to acknowledge excellence in pediatric preparedness that will be implemented in 2018.

The New Kentucky EMSC Performance Measures

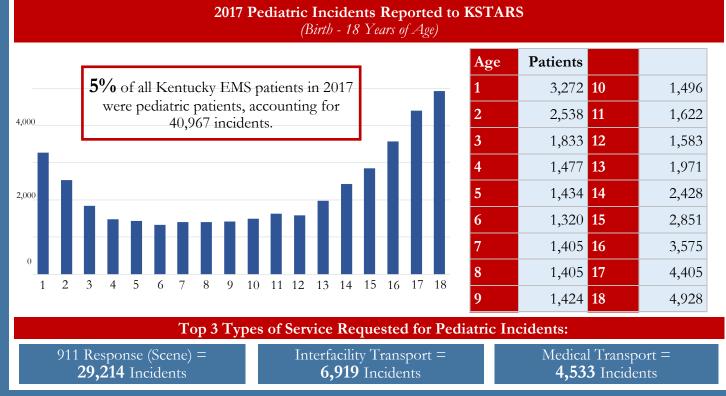
By 2026, 90 percent of EMS agencies in the state or territory have a designated individual who coordinates pediatric emergency care.

- 1. EMSC 02 Pediatric Emergency Care Coordinator
- (a) Numerator: 35
- (b) Denominator: 165
- (c) Percentage: 21.2%

By 2026, 90 percent of EMS agencies will have a process that requires EMS providers to physically demonstrate the correct use of pediatric-specific equipment.

2. EMSC 03 - Use of Pediatric-Specific Equipment (a) Numerator: 36

- (b) Denominator: 165
- (c) Percentage: 21.8%





Data Accomplishments

- Awarded a grant from the Kentucky Transportation Cabinet (KTC) for \$75,000 to continue work on the Kentucky State Ambulance Reporting System (KSTARS) data program.
- Awarded a grant from the Kentucky Department for Public Health (KDPH) for \$49,000.00 to sustain the Patient Tracking module.
- Awarded a grant from the National Institute for Occupational Safety and Health (NIOSH) for \$11,033.52 to participate in a pilot project on use of state NEMSIS data for EMS industry occupational safety surveillance.
- Analyzed time from call completion to incident received in KSTARS; found greater than 50% of services reported within 96 hours.
- Completed KSTARS integration with the Kentucky Health Information Exchange (KHIE).
- Collected NEMSIS Version 3 data from all but one licensed service.
- Implemented ReadyOp notification system for Eclipse and EMAC deployments.
- Improved radio communication capabilities for support of ESF-8 activities.
- Migrated website and support portal to new platforms with mobile device optimization.

Awarded the 2017 ImageTrend Hooley Award for Data Innovation.



LAKEVILLE, MINN. [July 20, 2017] -ImageTrend, Inc. announced the winners of the 2017 Hooley[™] Awards. Innovation Award: To recognize those who are serving in a new or innovative way to meet the needs of their organization, including developing programs or solutions to benefit providers, administrators, or the community.

Winner: Michael Poynter – Kentucky Board of Emergency Medical Services (KBEMS)

- Negotiated data sharing agreements with seven external organizations.
- Participated with Kentucky Highway Safety Traffic Records Advisory Council and strategic records assessment.
- Participated with National Association of State EMS Officials Data Manager Council.
- Participated with FEMA Regional Emergency Communication Coordinating Workgroup.
- Participated with White House Office of National Drug Control Policy (ONDCP) Heroin Availability Reduction Plan (HARP).
- Provided "Path to Statewide Data Collection" lecture at ImageTrend Connect Conference.
- Recommended participation in Cardiac Arrest Registry program.
- Recommended changes to 202 KAR 7:540 Data Regulation to improve data completeness and timeliness.

Legal Accomplishments

- Conducted investigations of forty-eight (48) complaints lodged against individuals, agencies, and TEI's.
- Received and filled One-Hundred and thirty (130) Open Records Requests during the calendar year.
- Issued ninety-nine (99) Agency Data Statements of Violation for late EMS data submission consistent with 202 KAR 7:540.
- Provided daily operational guidance to individuals, agencies, and others in regard to EMS statutory and regulatory interpretation.
- Provided numerous lectures at Regional, State, and National Conferences.
- Reviewed six-thousand-seventy one (6,071) criminal background checks for applicants for certification/licensure renewal.
- Scheduled and provided staff facilitation and resources for sixty-seven (67) Board, Standing Committee, Subcommittee, Task Force, and Preliminary Inquiry Board Meetings.
- Development through Task Force participation 202 KAR 7:501- Ambulance Agency Licensure, 202 KAR 7:545-License Classifications, 202 KAR 7:550-Required Equipment and Vehicle Standards, 202 KAR 7:555- Ground Agencies, 202 KAR 7:560- Ground Vehicle Staff, 202 KAR 7:565- Clinical Pilot Programs- To Legislative Research Commission- February, 2018.
- In 2017, 93 Medical Protocols were submitted for review.

The below agencies (35) were granted medical protocol amendments in 2017.

ADAIR CO. AMBULANCE SERVICE

AIR CARE & MOBILE CARE

AMERICAN MEDICAL RESPONSE

CAMPBELLSVILLE-TAYLOR COUNTY EMS

CARROLL CO. EMERGENCY MEDICAL SERVICES

CITY OF PAINTSVILLE FIRE-RESCUE- EMS

DAVIESS COUNTY FIRE & RESCUE

FORT MITCHELL LIFE SQUAD

GALLATIN CO. EMS

INDEPENDENCE FIRE DISTRICT AMBULANCE SERVICE

JEFFERSON FIRE PROTECTION DISTRICT

KENTUCKY STATE REFORMATORY EMS

LOGAN ALUMINUM AMBULANCE SERVICE

LOGAN COUNTY EMS

LYON CO. AMBULANCE SERVICE

MCLEAN CO. FISCAL COURT AMBULANCE SERVICE

MERCER CO. EMS, INC.

MERCY AMBULANCE SERVICE INC.

NORTHERN PENDLETON FIRE DISTRICT OLDHAM COUNTY EMS

PATIENT TRANSPORT SERVICES, INC.

PENDLET'ON COUNTY AMBULANCE TAXING DISTRICT

PINER-FISKBURG FIRE PROTECTION DISTRICT

PORTSMOUTH EMERGENCY AMBULANCE SERVICE, INC.

RYLAND HEIGHTS & COMMUNITY VFD, INC.

TODD CO. AMBULANCE SERVICE

TRANS STAR AMBULANCE SERVICE

TURFWAY PARK, LLC

UC HEALTH AIR CARE & MOBILE CARE

UNIVERSITY AIR CARE

WAYNESBURG AREA RESCUE SQUAD EMS

WOODFORD COUNTY AMBULANCE SERVICE YELLOW AMBULANCE

Mission: Lifeline

The American Heart Association recognizes the critical life-saving role prehospital emergency services provide to the overall success of a STEMI system of care. The availability of 12-lead ECGs and well trained EMS providers allow for rapid identification of STEMIs, early activation of hospital emergency and cardiac teams and transportation to a STEMI Receiving or Referral center for immediate care.

The EMS agencies recognized here have achieved 75% or higher on the following criteria that are applicable to their systems:

- Patients with non-traumatic chest pain ≥ 35 years, treated and transported by EMS who receive a pre-hospital 12-lead electrocardiogram
- STEMI patients transported directly to a STEMI receiving center with pre-hospital first medical contact-to-device time ≤ 90 minutes

 Lytic-eligible patients transported to a STEMI referring center with a door-toneedle time in ≤ 30 minutes

MISSION:

LIFELINE



The Kentucky Board of Emergency Medical Services is proud to recognize the American Heart Association's Mission: Lifeline 2017 award winners!

Gold Plus

Jessamine County EMS Madison County EMS Mercy Regional EMS Shelby County EMS

Gold

Boyle County EMS Bullitt County EMS Louisville Metro EMS Medical Center EMS Woodford County EMS

Silver Plus

Independence Fire District

Bronze Plus

Estill County EMS

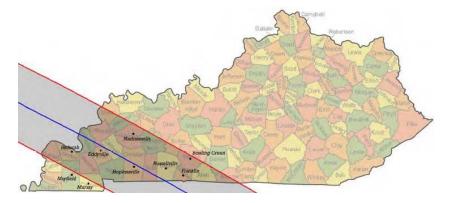
Bronze

Air Methods Kentucky Air Methods Kentucky, Meade Co. EMS Erlanger Fire/EMS Garrard County EMS Georgetown-Scott County EMS Lexington Fire and EMS Owensboro Health Muhlenberg EMS Powell County Ambulance Service

118 James Court, Suite 50, Lexington, KY 40505 **KYEMS.com** (859) 256-3565

2017 Solar Eclipse

On August 21st, 2017, a solar eclipse was observed across North America and a total eclipse was observed in 14 states. The point of greatest eclipse, where the axis of the moon's shadow passes closest to the center of the earth, was located 20 km northwest of Hopkinsville, Kentucky, and 21 eclipse-related events drew an estimated 116,500 visitors to the area.



21 Kentucky Counties with eclipse totality:

Ballard, McCracken, Marshall, Trigg, Graves, Calloway, Lyon, Livingston, Crittenden, Caldwell, Christian, Todd, Union, Webster, Hopkins, Muhlenberg, Logan, Simpson, Allen, Warren, & Butler.

9 Kentucky Cities with eclipse totality:

Mayfield, Murray, Paducah, Eddyville, Hopkinsville, Russellville, Madisonville, Franklin, & Bowling Green.

In preparation for the eclipse, the Kentucky Department for Public Health (KDPH) collaborated with local and regional epidemiologists, the Kentucky Board of Emergency Medical Services (KBEMS), area hospitals, the Kentucky health information exchange (KHIE), and informatics staff at the Tennessee and Illinois state health departments to implement surveillance for anticipated events of public health importance during this period.

In addition to syndromic surveillance, the KDPH monitored run data from 14 EMS services, which were entered as summary text reports to a web-based portal at least every 8 hours from August 19–21 by counties in the path of totality. The Kentucky Board of Emergency Medical Services (KBEMS) compared daily run volumes to the same time period during 2016 to determine whether additional resources were needed to provide care and transport in the area.

Patient volume did not exceed capacity for any local EMS service, and historical comparisons showed run volumes to be similar to or less than the previous year. Seven patients were documented as receiving EMS transport to a hospital for event-related issues, and 4 were assisted on-site for heat-related illness. Only 4 of 26 first aid stations reported. A total of 36 patients sought care: 13 for injuries, 10 for pain or headache, 4 for heat-related illness, and 9 for other conditions. Some EMS services did not enumerate patients seen or association of runs with an eclipse-related event.



EMS EMAC Task Force 15

Kentucky Emergency Management in association with the Kentucky Board of Emergency Medical Services and the Kentucky Department for Public Health deployed Kentucky EMS EMAC Task Force 15 to the state of Florida on September 12, 2017 in response to EMAC requests for EMS assistance for those jurisdictions affected by Hurricane IRMA.



The team of thirty (30) was staged initially in Tallahassee, Florida and subsequently deployed to support EMS operations in LeCanto, Florida and worked collaboratively with "Nature Coast EMS" in Citrus County, Florida. Citrus County is on the Gulf Coast of Florida and has a population of 141,000. Task Force 15 EMS teams responded to 111 calls in support of Nature Coast EMS.

Ambulances, personnel, communications equipment, and ATV equipment were deployed from the Kentucky Board of Emergency Medical Services, the Kentucky Fire Commission, Boyd County EMS-Ashland, Independence Fire & EMS- Independence, Livingston County EMS- Smithland, Lyon County EMS- Eddyville, Shelby County EMS-Shelbyville, & Somerset/Pulaski County EMS- Somerset.

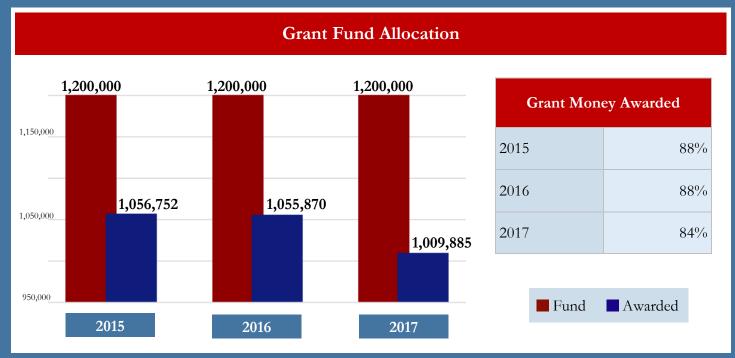
The following personnel were selected and responded to Hurricane IRMA as members of Kentucky EMS Task Force 15: Mike Poynter, Paramedic, Kentucky Board of EMS Shaun Powell, Paramedic- Shelby County EMS Chuck O'Neal, Paramedic, Kentucky Board of EMS Samantha Kimbler, Paramedic- Shelby County EMS Rickie Driskill, Paramedic, Livingston County EMS Timothy Stigers, Paramedic- Shelby County EMS Michael Wiggins, Paramedic, Lyon County EMS Alan Robinson, Paramedic- Shelby County EMS Brian Claybern, EMT, Independence FD/EMS Ron Sowder, Paramedic- Shelby County EMS Jared Powers, EMT, Independence FD/EMS Brent Turvey, Paramedic- Boyd County EMS Daniel Caudill, EMT, Boyd County EMS Matthew Holley, Paramedic- Boyd County EMS William Crockett, EMT, Somerset-Pulaski County EMS Charles "Mike" Doolin, Paramedic- Boyd County EMS Gregory Hampton, EMT, Lyon County EMS Brandon Wood, Paramedic- Somerset-Pulaski County EMS Michael "Mike" Short, Paramedic- Somerset-Pulaski County David Koon, EMT, Livingston County EMS EMS Dustin Winstead, EMT, Lyon County EMS Michael "Mike" Dick, Paramedic- Livingston County EMS Jessica Harper, EMT, Livingston County EMS Heath Ryan, Paramedic- Lyon County EMS Bonnie Stevenson, EMT, Somerset-Pulaski County EMS Paul Thomasson, Paramedic- Livingston County EMS Ken Harney, Paramedic, Independence FD/EMS John Weatherbee, EMT-Communications- Kentucky Fire Commission Bridget Moore, Paramedic, Independence FD/EMS Bill Birkle, EMT- Communications- Kentucky Fire

118 James Court, Suite 50, Lexington, KY 40505 **KYEMS.com** (859) 256-3565

Commission

Ambulance Block Grant

KRS 311A.155 Authorizes the Kentucky Board of Emergency Medical Services to maintain a block grant fund program for the purpose of assisting units of local government in the provision of emergency medical services. This administrative regulation establishes standards and criteria governing the allocation of emergency medical services funding assistance to eligible applicants. An annual grant allocation in the amount of \$10,000.00 is distributed to each applicant county that is in compliance.



Frequently Purchased Items			
Ambulance, Chassis/Remount, Lease Payment	Power Stretcher		
Video Laryngoscope	Training Equipment & Manikins		
Mechanical Chest Compression Device	EZ IO Drills/bags		
Mobile / Portable Radio	Stryker Stair Chair		
Hazmat Equipment	Backboard		
Monitor / Defibrillator	Traction Splint		
Transport Ventilator	Laptop Computer		

NIOSH Pilot Study

Kentucky was one of two states awarded a contract by the National Institute for Occupational Safety and Health (NIOSH) for a pilot study researching the viability of National EMS Information System (NEMSIS) data for surveillance of EMS personnel injuries and exposures. The contract came with a first year (2017) budget of \$11,033.52 with two additional year options. The contract provided for data accessibility from the Kentucky State Ambulance Reporting System (KSTARS) to NIOSH researchers for a specific time period as well as steps for providing education on the project topic with the state's EMS community.

NIOSH Requested NEMSIS Data Elements:				
<u>eOther.03</u> Personal Protective Equipment Used	Personal Protective during an EMS patient contact: Eye protection, Helmet, Level A Suit, Level D Suit (Turn out gear) Gloves Mask-N95			
eOther.04 EMS Professional (Crew Member) ID The ID number of the EMS Crew Member associated with eOther.03, eOther.05, & eOther.06.				eOther.03,
<u>eOther.05</u> Suspected EMS Work Related Exposure, Injury, or Death	Indication of an EM with this EMS event.	S work related expo	osure, injury, or dear	h associated
eOther.06 Type of Work-Related Injury, Death, or Suspected Exposure			or suspected ijury, None,	
The below table reflects EMS	The below table reflects EMS personnel injury and exposure data reported to KSTARS as of 12/01/2017.			
	% Linna	% Haing	% Haing	0/ Iloing

Year	# Incidents	% Using eOther.03	% Using eOther.04	% Using eOther.05	% Using eOther.06
2015	49,771	5%	83%	3%	.5%
2016	706,221	22%	98%	37%	7%
2017	725,738	14%	97%	66%	11%

1 The Board voted to require the collection of eOther.03, eOther.04, eOther.05, and eOther.06.

For more information visit: https://youtu.be/K5m2F6-q4ow

EMS Vehicles

http://www.hortonambulance.com/	Type I	A Type I is a Cab Chassis with mod Type I ambulance is that it is based driver compartment. Most heavy du	on a truck style body	with a separate
http://www.aev.com	Type II	Type II ambulances are a long whee design. Many long-distance transpor because of their increased fuel effici for practical emergency services bec	rt services use Type I ency. In general they	I ambulances do not make
http://www.aev.com	Type III	A Type III ambulance, much like a square patient compartment that is a result, a lot of people wonder wha two types of ambulances. The diffe used. A Type 3 ambulance is moun By contrast, Type I ambulances util	mounted onto an exi at exactly the differen rence lies in what typ ted on the cut-a-way	sting chassis. As ce is between the es of chassis are
http://www.aero-news.net	Rotor Wing	The name rotary-wing refers to the used by helicopters. Helicopter am situations, primarily dealing with en them to carry specially-trained air E patient has been injured, and then t back to the hospital.	bulances are used in a nergency response. H CMS teams out to a lo	a variety of ospitals utilize cation where a
http://www.airambulanceexperts.net	Fixed Wing	The term "fixed-wing" refers to win a specific location on the aircraft. L high-tech medical equipment to acc crew. Fixed-Wing ambulances are a transporting patients across countri	onger-distance air an commodate a patient a necessity for quickly	bulances possess and a medical and comfortably
		KBEMS Licensed Vehicles		
1 02E T : 1 A	. 1 1	Type I	283	24.93%
1,235 Licensed An 100 Vehicles with no Vehi		Type II	212	18.68%
	51	Type III	565	49 78%

125 Ambulances added in 2017

118 James Court, Suite 50, Lexington, KY 40505 **KYEMS.com** (859) 256-3565

Air Rotor Wing

Air Fixed Wing

6.26%

.35%

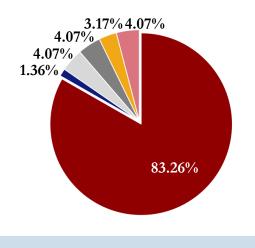
71

4

Kentucky Agencies

KY Licensed Agencies

Agency Classification			
Class I	183	83.26%	
Class II	3	1.36%	
Class III	9	4.07%	
Class IV	9	4.07%	
Class VI	7	3.17%	
Class VII	9	4.07%	
Total	220	100.00%	



26 Basic Life Support (BLS) Agencies 195 Advanced Life Support (ALS) Agencies

Agency Organization Type			
Community, Non-Profit	48	Hospital	21
Fire Department	51	Private, Non-Hospital	63
Governmental / Non-Fire	37		

Agency Classification

<i>a</i>	Class I ground ambulance services shall operate at the ALS or BLS level to provide
Class I	emergency and nonemergency transportation.
Class II	Class II ground ambulance services shall operate at the BLS level only to provide
Class II	nonemergency transportation.
	Class III ground ambulance services shall operate at the ALS level only to provide
Class III	critical care, emergency or nonemergency transportation between health care
	facilities.
	Class IV ground ambulance services shall operate at the ALS or BLS level to provide
Class IV	emergency and nonemergency transportation for restricted locations such as
	industrial sites and other sites that do not provide services outside a designated site.
Class VI	Class VI services provide ALS medical first response without patient transport.
	Class VII rotor wing air ambulance services may provide ALS emergency or
Class VII	nonemergency transportation. Fixed wing class VII services may provide ALS or
	BLS emergency or nonemergency transportation.

Training & Educational Institutions

KY Licensed TEIs

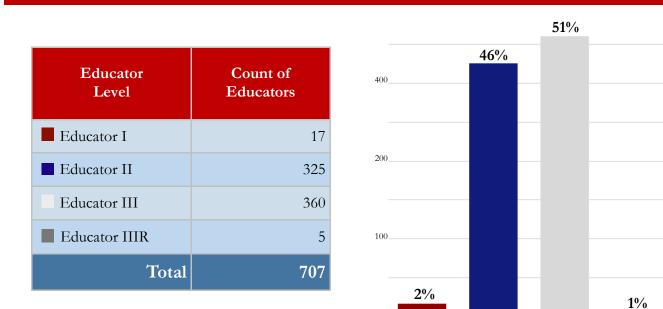
A TEI is an organization that is certified by KBEMS to teach present and future EMS providers. TEIs are certified by KBEMS to teach continuing education courses, or courses to certify/license individuals at the levels certified or licensed by KBEMS (Emergency Medical Responder, Emergency Medical Technician, Advanced Emergency Medical Technician, and Paramedic).

TEI Type	#	%
EMS-TEI 1	1	.6%
EMS-TEI 2	42	25.3%
EMS-TEI 3	56	33.73%
EMS-TEI 4	15	9.04%
EMS-TEI CE	52	31.33%
Total	166	100%

178 Courses Issued in 2017				
EMR Courses:	EMT Courses:	AEMT Courses:	Paramedic Courses:	
11	146	<mark>6</mark>	15	

TEI Description			
EMS-TEI 1	Certified to teach EMR.		
EMS-TEI 2	Certified to teach EMR and EMT.		
EMS-TEI 3	Certified to teach EMR, EMT, and AEMT.		
EMS-TEI 4	Certified to teach EMR, EMT, AEMT, and Paramedic.		
EMS-TEI CE	Certified to teach Continuing Education only.		

Educators

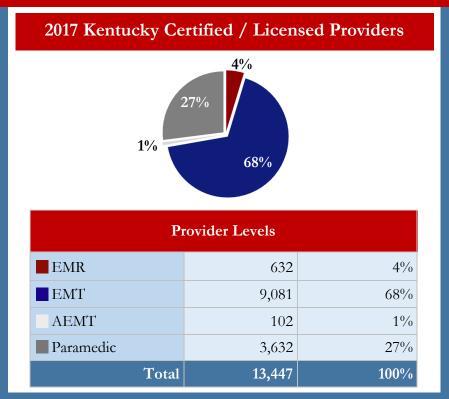


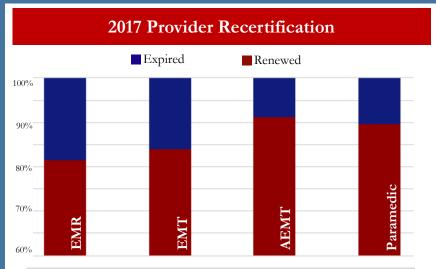
KY Licensed Educators

An applicant to become a Kentucky certified EMS educator shall be certified or licensed as an Emergency Medical Responder (EMR), Emergency Medical Technician (EMT), Advanced Emergency Medical Technician (AEMT), or Paramedic. Registered Nurses (RN)s and Physicians (MD or DO) not holding an EMS License or Certification may obtain a Restricted EMS Educator (Level IIIR) Only.

Level	Teaching Ability
Educator I	EMR Initial or Continuing Education Courses
Educator II	EMR Initial or Continuing Education Courses EMT Initial or Continuing Education Courses
Educator III	EMR Initial or Continuing Education Courses EMT Initial or Continuing Education Courses AEMT or Paramedic Initial or Continuing Education Courses
Educator IIIR	AEMT or Paramedic Initial or Continuing Education Courses

Kentucky Providers





Level	Renewed	Expired	Attrition	
EMR	258	59	18.61%	
EMT	3,474	668	16.13%	
AEMT	31	3	8.82%	
Paramedic	1,411	165	10.47%	
Total	5,174	895	13.51%	

2017 Issued Certifications / Licenses

Initial		
Provider Level	Count	
EMR	55	
EMT	955	
АЕМТ	56	
Paramedic	387	
Total	1,453	

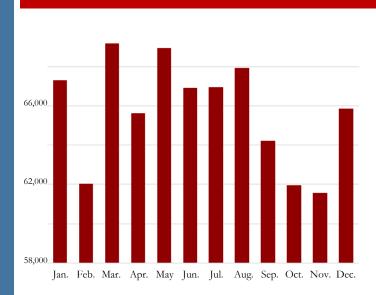
Reinstatement		
Provider Level Count		
EMR	3	
EMT	42	
Paramedic	12	
Total	57	

Reciprocity		
Provider Level	Count	
EMR	1	
ЕМТ	162	
AEMT	23	
Paramedic	165	
Total	351	

Temporary		
Provider Level	Count	
EMT	17	
Paramedic	11	
Total	28	

118 James Court, Suite 50, Lexington, KY 40505 **KYEMS.com** (859) 256-3565

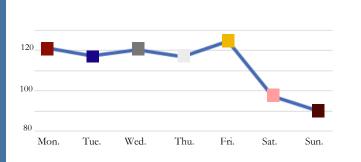
788,917 Total Incidents Reported to KSTARS



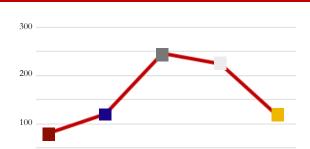
Monthly Incident Count

Incident Peak Times

Incident Month				
January	67,330	July	66,990	
February	62,033	August	67,945	
March	69,216	September	64,214	
April	65,623	October	61,953	
May	68,968	November	61,550	
June	66,924	December	65,867	

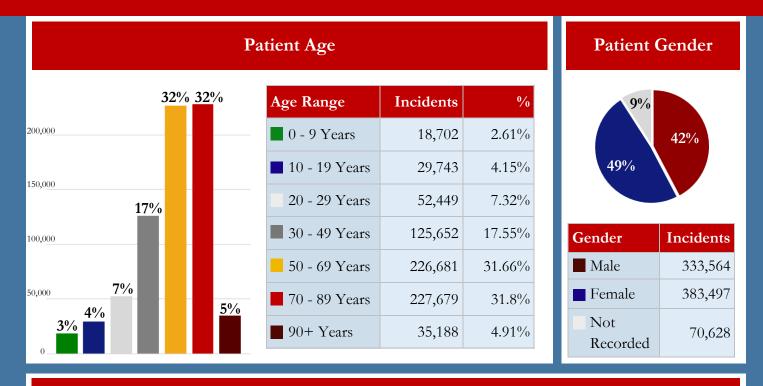


Incidents by Week Day				
Monday	121,346	Friday	124,734	
Tuesday	117,502	Saturday	97,512	
Wednesday	120,282	Sunday	90,227	
Thursday	117,028			

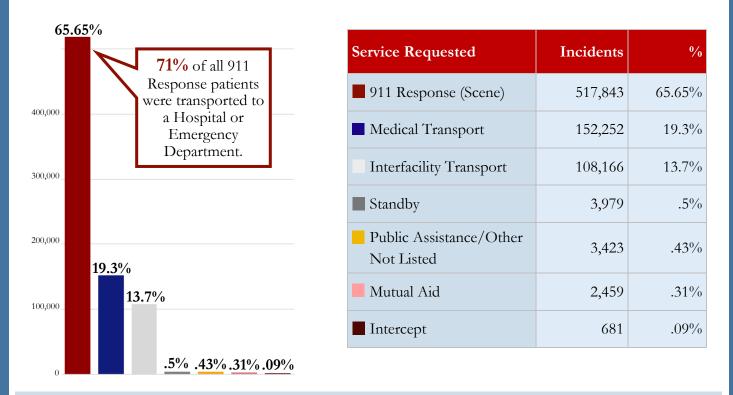


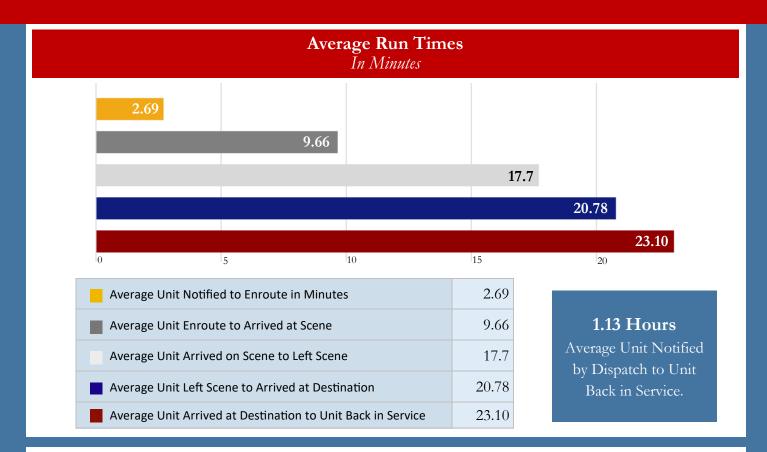
12am - 4am 5am - 9am 10am - 2pm 3pm - 7pm 8pm - 12pm

Incident Hour Range				
1 2am - 4am	80,997	3pm - 7pm	224,903	
5 am - 9am	119,497	<mark>8</mark> pm - 12pm	117,294	
10am - 2pm	245,996			

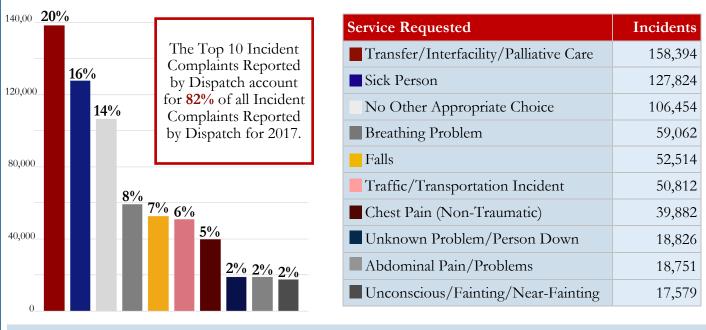


Type of Service Requested

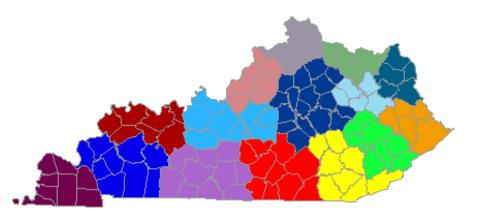




Top 10 Incident Complaints Reported by Dispatch



Total Call Volume by Region

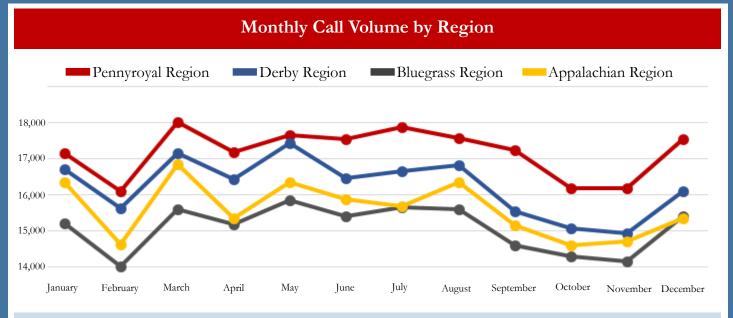


Pennyroyal Region		
District 1	34,278	
District 2	33,795	
District 3	37,788	
District 4	54,485	
District 14	41,891	
Total	202,237	

Derby Region			
District 5	41,891		
District 6	86,647		
District 7	68,631		
Total	197,169		

Bluegrass Region			
8,861			
161,169			
170,030			

Appalachian Region			
District 9	11,568		
District 10	37,632		
District 11	39,068		
District 12	27,293		
District 13	54,010		
Total	169,571		

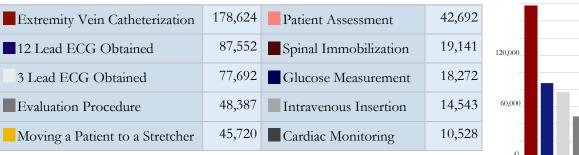


Top 10 Patient Primary Symptoms	
	Oxy
Each accounts for 2%	Nitr
Each accounts	Asp
for 3%	Sod
4% 5%	Alb
13% 14%	Ond
0 40,000 80,000	Nale
Other general symptoms and signs 87,789	
Weakness 81,975	Fen
Encounter for general examination without 28,618	Epi
complaint, suspected or reported diagnosis	Ipra
Pain, unspecified 26,218	-
Pain, chest 21,783	Met
Altered mental status 19,349	Mot
Encounter, adult, no findings or complaints 14,078	Nor
Pain, back 13,774	
Acute respiratory distress syndrome 13,366	
Shortness of breath 12,174	Keta

Medications Administered			
ygen	144,025	18.28%	
roglycerin	22,306	2.83%	

22,306	2.83%
19,051	2.42%
18,706	2.37%
17,304	2.2%
14,822	1.88%
12,745	1.62%
12,555	1.59%
7,056	.9%
6,066	.77%
4,454	.57%
3,697	.47%
3,052	.39%
2, 640	.34%
2,625	.33%
	19,051 18,706 17,304 14,822 12,745 12,555 7,056 6,066 4,454 3,697 3,052 2,640

Top 10 Procedures Performed by EMS

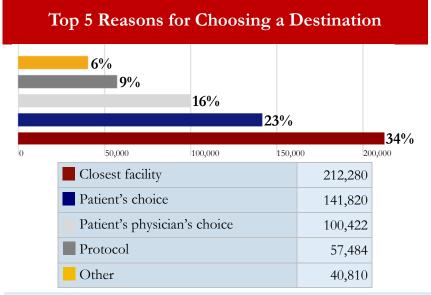


Incident Destinations

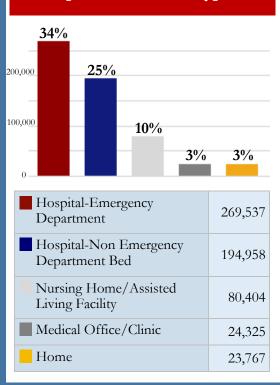
Top 10 Facility Destinations

University of Kentucky Hospital	Lexington	8,631
Lake Cumberland Regional Hospital	Somerset	6,152
Kings Daughters Medical Center	Ashland	6, 070
Hazard ARH Regional Medical Center	Hazard	4,843
St. Elizabeth Edgewood	Edgewood	4,563
Baptist Health Madisonville	Madisonville	4,050
Baptist Health Richmond	Richmond	3,915
Jewish Hospital & St. Mary's Healthcare	Louisville	3,829
St. Elizabeth Covington	Covington	3,678
Methodist Hospital	Henderson	3,438
The Medical Center at Bowling Green	Bowling Green	2,940
Baptist Health Lexington	Lexington	2,930
Saint Joseph Hospital	Lexington	2,910
Norton HSP/Norton Children HSP/ Norton Healthcare Pavilion	Louisville	2,902
Baptist Health Corbin	Corbin	2,872

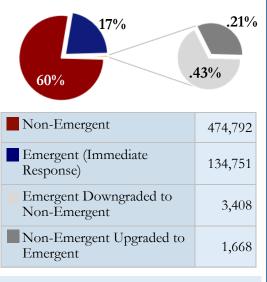
The top destinations are based off of the most widely used & correct Facility ID Codes reported to KSTARS for 2017 incidents.



Top 5 Destination Types



Transport Mode from Scene



174,268 incidents with transport mode from scene not recorded, not applicable, or blank.

Ground Transports

Top 10 Causes of Injury

549,684 Ground Transports			
Ground Transports	549,115		
Not Applicable, Not Recorded, or Blank 228,916			
Type of Service Rec	-		
15% 23% <1% 61%			
Interfacility Transport	83,834		
911 Response (Scene) 336,122			
Medical Transport 127,140			
Intercept 369			
Public Assistance 662			
Mutual Aid 1,230			
Standby 319			

Fall on same level from slipping, tripping and stumbling	16,152	16,000
Car occupant (driver) (passenger) injured in unspecified traffic accident	12,612	12,000
Other specified effects of external causes	2,110	
Fall from bed	2,109	
Fall from chair	1,930	8,000
Other slipping, tripping and stumbling and falls	1,888	8,00 <u>0</u>
Fall (on) (from) unspecified stairs and steps	1,712	4,000
Assault by bodily force	1,662	
Other fall from one level to another	930	
Unspecified fall	919	0_

6,000 68% of all fall patients were 60 years of age or older. **1.22 Hours** Average Unit Notified by Dispatch to Unit Back in Service. 8,000 0

Ground Ambulance Peak Times By Hour Range

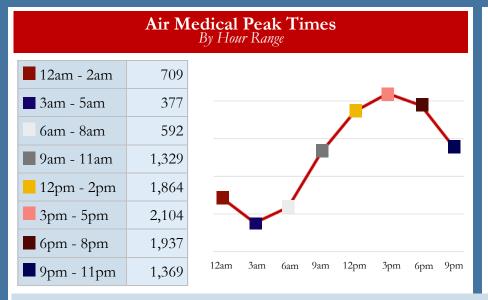


Transport Mode from Scene

Emergent (Immediate Response)	22%
Emergent Downgraded to Non-Emergent	<1%
Non-Emergent	77%
Non-Emergent Upgraded to Emergent	<1%

Air Medical Transports

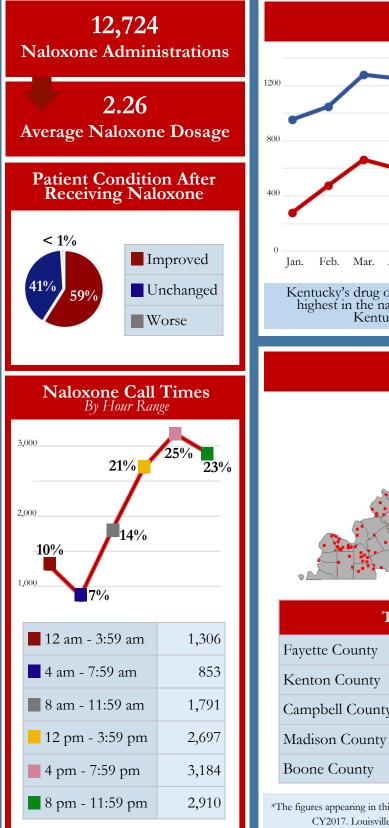
10,272 Air Medical Trans	oorts	Top 5 Causes of Injury		
Air Medical - Fixed Wing	200	Car occupant (driver) (passenger) injured in unspecified traffic accident, initial encounter	527	2.5 Hours Average Unit Notified by Dispatch to
Air Medical - Rotor Craft Type of Service Reg	10,072 uested	Car occupant (driver) (passenger) injured in other specified transport accidents, initial encounter	181	400_
40%	<1%	Driver of other special all-terrain or other off- road motor vehicle injured in nontraffic accident, initial encounter	91	200-
Interfacility Transport	6,082	Fall on same level, unspecified, initial	81	200-
911 Response (Scene)Medical Transport	4,111	Car driver injured in		
Intercept	4	collision with other nonmotor vehicle in traffic accident, initial	74	
Public Assistance	3	encounter		0

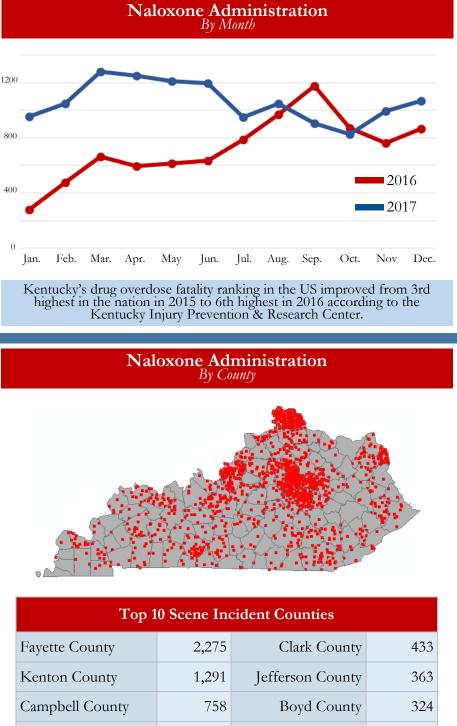


9 Air Ambulance Services

Service State		
Kentucky	4	
Ohio	1	
South Carolina	1	
Tennessee	2	
West Virginia	1	

Naloxone Administrations





*The figures appearing in this publication are approximations based on data collected within KSTARS for CY2017. Louisville-Jefferson County Metro did not submit Incident data for CY2017.

525

491

Jessamine County

Hardin County

298

236

118 James Court, Suite 50, Lexington, KY 40505 **KYEMS.com** (859) 256-3565

Highway Safety

Traffic/Transportation Incidents

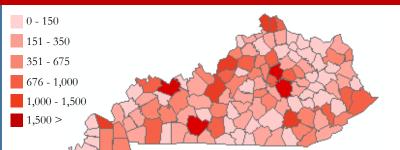
50,731

Traffic/Transportation Incidents Reported by Dispatch.

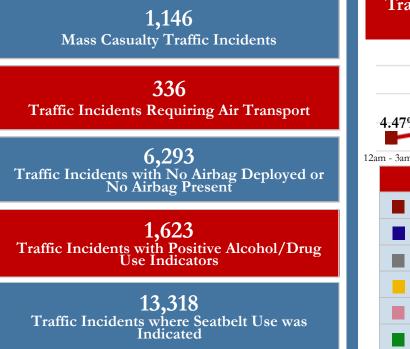
64,062

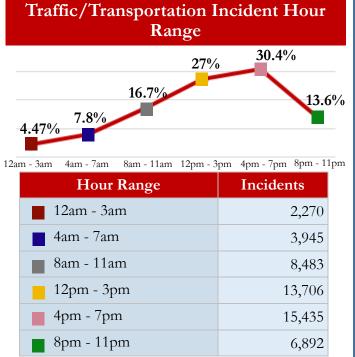
of Incidents with Highway/Roadway/ Street as the Scene Location

Incident Location Type	Incidents
Exit ramp or entrance ramp of street or highway	86
Highway rest stop	8
Interstate highway	408
Street, highway and other paved roadways	48,743
Street and highway	14,740
Unspecified street and highway	77



Top 10 Counties with Traffic/Transportation Incidents			
Fayette	3,759	Boone	1 , 370
Daviess	1,943	Hardin	1,308
Warren	1,816	Kenton	1,135
Madison	1,624	Laurel	1,131
McCracken	1,457	Jefferson	1,092



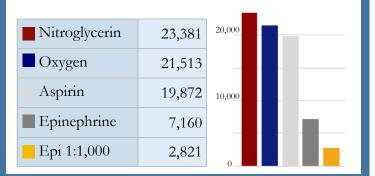


Cardiac Arrest Incidents

Patients with chief complaint of "cardiac arrest/chest pain", incident complaint of "cardiac arrest/chest pain" reported by dispatch, or cardiac arrest during EMS event account for **10.8%** (85,035 Incidents) of all 2017 Incidents.

Chief Complaint			
Cardiac Arrest/Chest Pain	34,791		
Incident Complaint Reported by Dispatch			
Chest Pain (Non-Traumatic)	39,882		
Cardiac Arrest/Death	5,247		
Cardiac Arrest - Possible DOA	7		
Cardiac Arrest During EMS Event			
Yes, Prior to EMS Arrival	4,493		
Yes, After EMS Arrival	615		

Top 5 Medications Administered



Patient Demographics

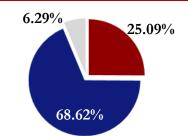
Patient G	ender	Patient Age	
Male	52%	Average Age	58
Female	48%	50 - 79 years of age	60%

47% 40,000 43% 30,000_ 20,000 17% 10.000 81/0 6% 12 Lead ECG Obtained 40,371 Extremity Vein Catheterization 36,222 3 Lead ECG Obtained 14,859 Evaluation Procedure 7,042 Intravenous Insertion 5,142

Top 5 Procedures Performed

The data corresponds to the Cardiac Arrest incidents on the left.

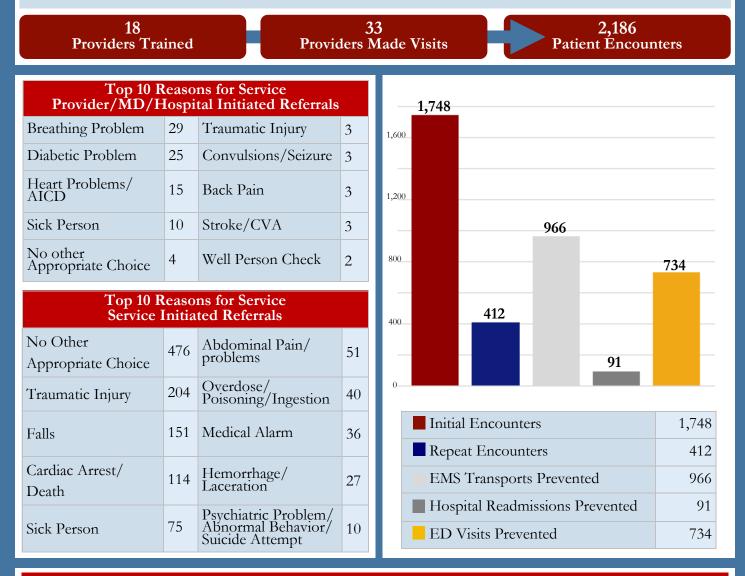
Care Provided Prior to EMS Arrival



CPR Provided Prior to EMS Arrival			
Return of Spontaneous Circulation	Incidents	%	
Yes	566	25.09%	
No	1,548	68.62%	
N/A or Not Recorded	142	6.29%	

Community Paramedicine Pilot

In Kentucky, the demand for Emergency Medical Services is increasing while reimbursements are decreasing. To upturn this phenomenon the Kentucky Board of Emergency Medical Services implemented Kentucky's first Mobile Integrated Health/ Community Paramedicine Pilot Program on June 1st, 2016. The primary role of the program is to fill unmet needs with untapped resources, reduce 911 utilization/ED visits, and create partnerships within the community. The data below reflects the Year 2, Quarter 1 & 2 findings of the MIH/CP pilot program (06/01/2017 - 11/30/2017).



Average Cost

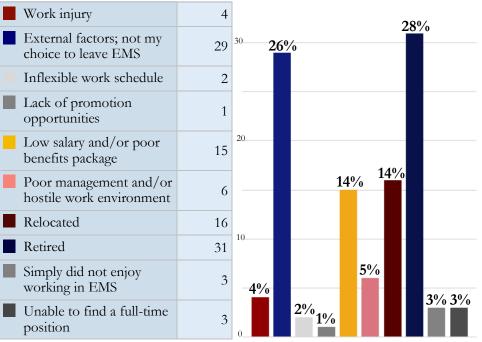


EMS Employee Attrition Survey

This report presents the findings of KBEMS' 2017 Attrition Survey; the primary objective of this study is to determine the trends and other factors that contribute to Kentucky EMS employee attrition. The survey was administered to 885 KY EMS providers who discontinued their EMS License/Certification in 2017.

Participant Demographics		
113 Participants (12.77% Response Rate)		
Male	71.68%	
Female	28.32%	
Provider L	evel	
EMR	3.54%	
ЕМТ	76.11%	
AEMT	.88%	
Paramedic	19.47%	
Age Ran	ge	
18-24	4.42%	
25-34	21.24%	
35-44	20.35%	H
45-54	23.01%	
55-64	22.12%	
65+	8.85%	Ι
Education		a F
High School Diploma	14.16%	
Some College	41.59%	4
Associate's Degree	16.81%	
Bachelor's Degree	20.35%	
Master's Degree	7.08%	T
Doctorate	0%	1 9

Primary Reasons for Allowing License/Certification to Expire



Participant Attitudes & Beliefs Stress Advancement Salary believe that working I believe that EMS There are plenty of s an EMS provider is providers deserve a opportunities for Highly Stressful. higher annual salary. advancement in EMS. 1% 2% 8% 4% 4% 6% 13% 13% 20% 17% 42% 35% 72% 33% Strongly Agree Strongly Disagree Neutral Disagree Agree op 5 Career Fields previous EMS providers are now working:

Heath & Medicine 37.88% (25), 2. Manufacturing 12.12% (8), 3. Government

118 James Court, Suite 50, Lexington, KY 40505 **KYEMS.com** (859) 256-3565

09% (6), 4. Construction 7.58% (5), 5. Sales 7.58% (5).

Current Projects of the Board



- Continued work and collaboration with the Legislative research commission on 202 KAR 7:501- Ambulance Agency Licensure, 202 KAR 7:545- License Classifications, 202 KAR 7:550- Required Equipment and Vehicle Standards, 202 KAR 7:555- Ground Agencies, and 202 KAR 7:560- Ground Vehicle Staff, 202 KAR 7:565- Clinical Pilot Programs
- Implementation of NEMSIS Version 3.4.0.
- Continued work on the review and appropriate amendment of Kentucky EMS regulations to protect the health and safety of citizens of the Commonwealth through the provision of effective Emergency Medical Services, while eliminating unnecessary and/or burdensome regulatory processes and red-tape.
- Continued revisions and complete update of the KBEMS State EMS Protocol.
- Destination Guidance for Trauma, STEMI, Stroke with or w/o Emergent Large Vessel Occlusion, Sepsis, and Cardiac Arrest.
- Research, development, and publishing of 2017 EMS Workforce Attrition Report.
- Research, development, and publishing of 2017 Mobile Integrated Healthcare/Community Paramedicine Pilot Program Study.
- Continue to collaborate with Community Colleges and Regional Universities to advocate for the development of Accredited Paramedic Program availability throughout the Commonwealth of Kentucky.
- Continued work on the "EMS 2023" Work Group which is tasked with identifying and implementing positive change for challenges that EMS professionals and agencies currently face, to enhance professionalism of the workforce, and to recruit and retain educated, high-quality, career-minded EMS professionals.
- Amendments to 202 KAR 7:520- Block Grant.
- Amendments to 202 KAR 7:540- Data Collection, Management, and Compliance.
- Amendments to 202 KAR 7:801- Medical Directors.
- Representation on the National Infragard Board of Directors.
- Support of the 2018 Bryant Stiles Fire Officers School, 2018 Kentucky State EMS Fire School, 2018 Lake Cumberland Healthcare Symposium, and 2018 Kentucky EMS Conference and Expo.

Current Projects of the Board

- Update of KEMSIS (Licensure) applications to ensure appropriate repository of historic EMS records and streamlining of all EMS service needs and requests.
- Collaboration with ESF 5 and ESF 8 partners in Emergency Management and Public Health to ensure appropriate State EMS representation and support for EMS professionals and agencies in Kentucky and throughout the nation.
- Collaboration with EMS agencies, the FDA, and Kentucky Board of Pharmacy to mitigate the effects of multiple shortages of Emergency Medications and Intravenous fluids.
- Continued Research under contract with NIOSH/CDC on EMS Work-Related Injuries research project.
- Representation on numerous councils of the National Association of State EMS Officials (NASEMSO).
- Collaboration and data sharing with the Kentucky Department of Transportation.
- Collaboration with healthcare and law enforcement partners in research of Opioid abuse in Kentucky and monitoring of Naloxone administration by EMS professionals.
- Scheduling and coordination of the "Kentucky EMS Leadership Academy" during 2018.
- Continued endorsement of Traffic Incident Management System (TIMS) training for all certified and licensed EMS personnel in Kentucky.
- Continued work on a Commonwealth "Cardiac Arrest Registry (CARES)" in collaboration with the American Heart Association, Kentucky Chapter of the American College of Cardiology, and CARES registry (CDC-Emory University).
- Research and Development of collaborative legislation for Community Paramedicine, and adoption of "Board Certification" of specialties in EMS. Some of which may include: Community Paramedic, Tactical Paramedic, Flight Paramedic, Wilderness EMT/Paramedic, Critical Care Transport Paramedic.
- Continued improvement to KEMSIS user experience and site performance.





Kentucky Board of Emergency Medical Services 118 James Court Lexington, KY 40505 (859) 256-3565

kyems.com • support.kyems.com



/KYBoardEMS