The primary goal of a trauma system is to decrease mortality and morbidity from injury by getting injured patients to the closest appropriate hospital with the right resources and care they need.

- Movement to develop a KY state trauma system originally led by:
  - Dr. Paul Kearney, trauma surgeon at the University of Kentucky
  - Dr. Mary Fallat, a pediatric trauma surgeon from Kosair Children’s Hospital
  - Dr. Fallat was also the Medical Director for the Kentucky EMS for Children program
- There were a few facilities who had self-verified through the American College of Surgeons:
  - Four levels of verification: Level-I (typically a hospital);
  - Level-II to Level-IV.
  - Some maintained it; and some dropped it – usually over the staffing mix needed to sustain verification.
  - Taylor Regional Hospital is one of the longest continuously verified Level-III in US
- There was agreement from all involved to create a “voluntary” state system.
- In 2007 KHA, working with KY Public Health Commissioner William Hacker, agreed that they would sponsor enabling legislation in the 2008 General Assembly; but KHA would have to take the lead.
  - I had a background running the Louisville EMS system for over 20 years and became the de facto state Trauma Coordinator.

The law was passed without any state funding, but with provisions for a non-lapsing trauma account should money become available in the future.

- There were some initial grants from the Foundation for a Healthy Kentucky to help get the program organized, and to underwrite some educational programs.
- There was a gift from a physician ED staffing group, MESA, that seeded the establishment of the Kentucky Trauma Registry.
- The law created the Kentucky Trauma Advisory Committee, which is appointed by the Secretary of the Cabinet for Health and Family Services; but there are no funds to support meetings so the group meets regularly using electronic video conferencing.
- WHEN THE LAW WENT IN TO EFFECT in 2008, we had two ACS COT Verified Level-I Trauma Centers (UK Chandler Medical Center and UofL Hospital); and one ACS COT Level-III verified Trauma Center (Taylor Regional Hospital).
- The system developed criteria for in-state verification of Level-IV trauma centers
  - The first was Marcum and Wallace Hospital in September, 2010
  - Using a gift from The Good Samaritan Foundation, five workshops were conducted across the state to promote the trauma system and encourage facilities to consider becoming trauma centers.

Despite the lack of funds - due to support from the Kentucky Hospital Association, the tireless voluntary efforts of the Trauma Advisory Committee, the generosity of friends, foundations and grants – we now have a Kentucky Trauma Care System with 22 verified trauma centers.

- There are 2-3 regional in central KY working future Level-III designations
- There are at least 3-4 other hospitals across the state working on potential Level-IV designations.
- Pikeville Medical Center is developing additional pediatric capability that may become another pediatric trauma center in the future.

Kentucky’s Trauma Care System

Richard Bartlett, BD, MEd
Emergency Preparedness & Trauma Coordinator
Kentucky Hospital Association
trauma@kyha.com

There were a few facilities who self-verified through American College of Surgeons.

- Four levels of verification: Level-I (typically a hospital);
- Level-II to Level-IV.
- Some maintained it; and some dropped it – usually over the staffing mix needed to sustain verification.
- Taylor Regional Hospital is one of the longest continuously verified Level-III in US
- There was agreement from all involved to create a “voluntary” state system.
- In 2007 KHA, working with KY Public Health Commissioner William Hacker, agreed that they would sponsor enabling legislation in the 2008 General Assembly; but KHA would have to take the lead.
  - I had a background running the Louisville EMS system for over 20 years and became the de facto state Trauma Coordinator.

The law was passed without any state funding, but with provisions for a non-lapsing trauma account should money become available in the future.

- There were some initial grants from the Foundation for a Healthy Kentucky to help get the program organized, and to underwrite some educational programs.
- There was a gift from a physician ED staffing group, MESA, that seeded the establishment of the Kentucky Trauma Registry.
- The law created the Kentucky Trauma Advisory Committee, which is appointed by the Secretary of the Cabinet for Health and Family Services; but there are no funds to support meetings so the group meets regularly using electronic video conferencing.
- WHEN THE LAW WENT IN TO EFFECT in 2008, we had two ACS COT Verified Level-I Trauma Centers (UK Chandler Medical Center and UofL Hospital); and one ACS COT Level-III verified Trauma Center (Taylor Regional Hospital).
- The system developed criteria for in-state verification of Level-IV trauma centers
  - The first was Marcum and Wallace Hospital in September, 2010
  - Using a gift from The Good Samaritan Foundation, five workshops were conducted across the state to promote the trauma system and encourage facilities to consider becoming trauma centers.
...but there is a need for more… especially in western, southcentral and eastern KY

- The Kentucky Trauma Registry (funded by KyTC at this time) has grown from five reporting facilities in 2008 to 29 facilities in 2018 (some of which are preparing for future verification).
- A total of 12,784 records were reported in 2018, more than double the 2008 total.
  - Injuries to males comprised nearly 60% of KTR records
  - Isolated hip fractures (not reported consistently in the data) are the most common traumatic injury in older adults (primarily women)
  - 89.14% of the records reported treatment for white patients; 7.52% were for black patients
  - Trauma volume is seasonal, with higher numbers in the summer months; higher Saturday to Monday
  - 14.25% were classified as moderate injuries; over 17% severe to very severe injuries

Kentucky’s has 81 deaths per 100,000 population, which is substantially higher than the rest of the US (60.1:100,000)

- 75.4% indicate the patients were admitted to the operating room
  - 13.7% were transferred to another hospital
  - Deaths were recorded for only 1.2% of ED trauma patients
  - Trauma Systems have clearly shown that they can save lives and decrease morbidity from injury.
  - The long range goals for the Kentucky Trauma System is to decrease the death rate from injury, decrease morbidity and disability, and decrease the overall healthcare burden injury has on the people of the Commonwealth.
  - Who is paying the bills?
    - 38.24% are covered by commercial insurance
    - 26.95% from Medicare
    - 25.8% from Medicaid
    - “Self-Pay” & “uninsured” in 2018 ~ 6.4%
    - Was in the 40% range before Medicaid coverage became available to new categories and income levels of KY residents

What are the system’s needs?

- The short-term goal is to secure a stable, on-going source of funding to support the operation and growth of the Kentucky Trauma Care System
  - Consider sources like Georgia’s Super-Speeder program
  - Enhanced Distracted Driving legislation
  - Other options used in other states: Add-on for motor vehicle registrations

What would the money be used for?

- Trauma Program Manager (1 FTE)
- Trauma Educator/Coordinator (1 FTE)
- Trauma Registry Support (software support and data management/analysis) ~ KIPRC Support
- Basic program operating funds (KyTAC meeting expenses, office space, phones, computer services, etc.)
- Educational program support
  - Rural Trauma Team Development courses
  - Trauma physician and nursing courses
  - Pediatric Life Support courses
  - Burn management courses
  - Injury prevention programs
  - Stop the Bleed programs and materials
  - To include in-school kits and training
- Trauma Registrar courses
- Support for the annual Trauma and Emergency Medicine Symposium
Richard Bartlett, BD, MEd
Emergency Preparedness & Trauma Coordinator
Kentucky Hospital Association
trauma@kyha.com