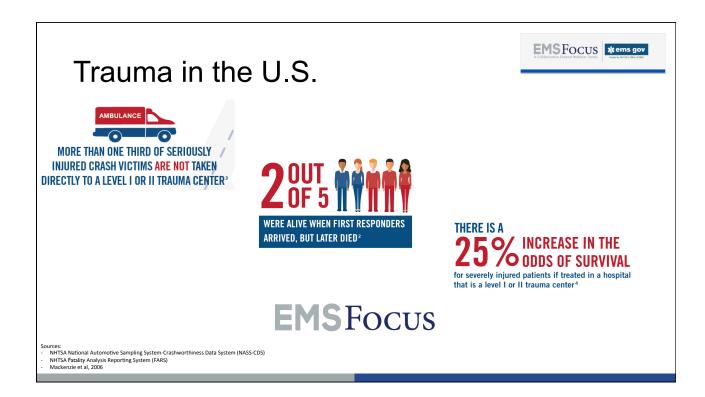


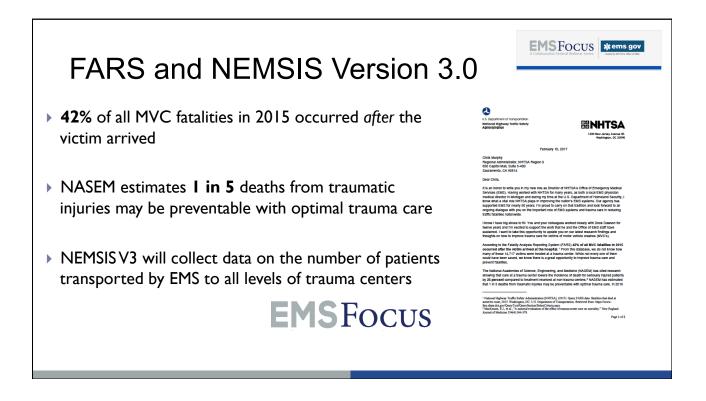
- Trauma is the leading cause of death for Americans, ages 1-46
- ▶ 96 deaths per day



# **EMS**Focus

**20%** OF TRAUMA DEATHS are preventable with optimal emergency and trauma care





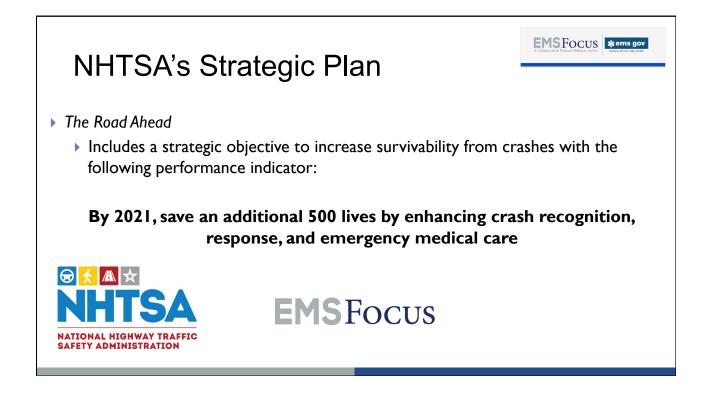
## **EMS** Countermeasures

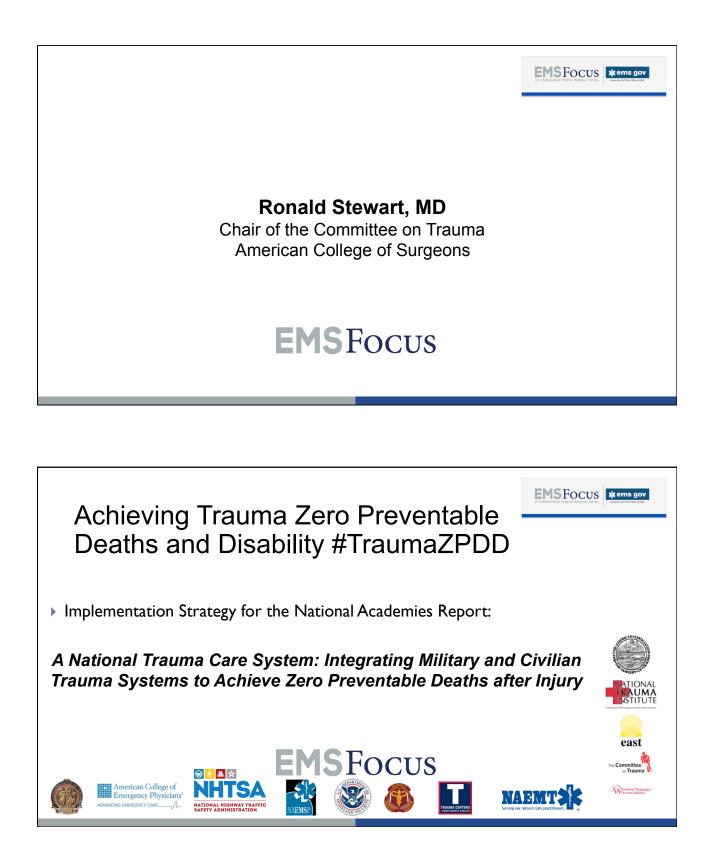
- Use of Field Trauma Triage Guidelines to transport patients to trauma centers
- Use of Mass Casualty Incident Triage Guidelines
- Use of the evidence-based guidelines for prehospital pain management
- Use of the evidence-based guidelines for prehospital management of traumatic brain injury

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- Use of the evidence-based guidelines for external hemorrhage control
- Use of the National Model EMS Clinical Guidelines

# **EMS**Focus



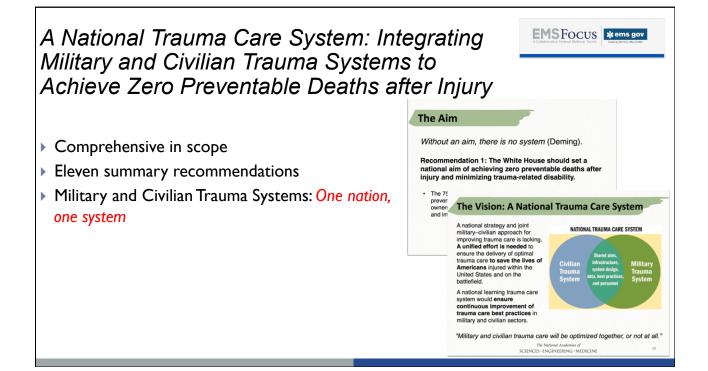




## History of NASEM Recommendations

- 1966 National Academies of Science Whitepaper
- 2016 National Academies of Science, Engineering and Medicine
- Military & civilian physicians and scientists
- From extended combat experience

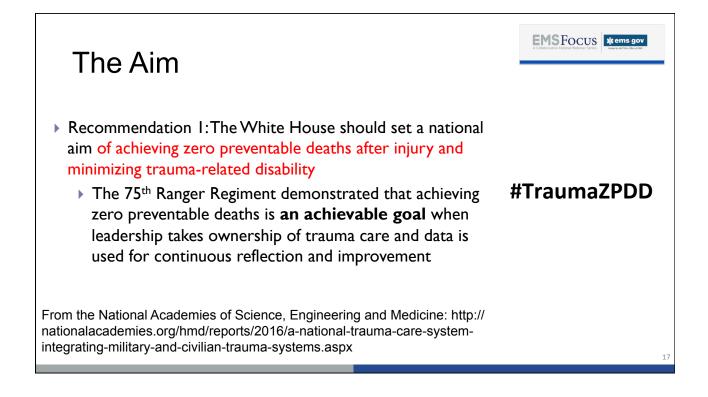


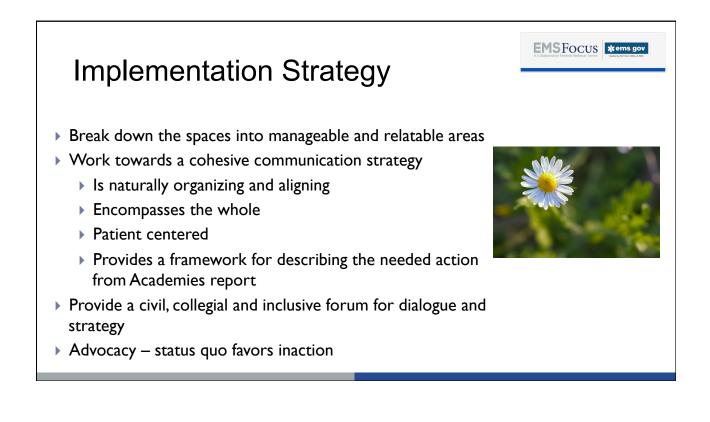


Position statement of the Coalition for National Trauma Research on the National Academies of Sciences, Engineering and Medicine report, A National Trauma Care System: Integrating Military and Civilian Trauma Systems to Achieve Zero Preventable Deaths After Injury				
Coalition for National Trauma Research (CNTR), Donald H. Jenkins, MD, William G. Cioffi, MD, Christine S. Cocanour, MD, Kimberly A. Davis, MD, MBA, Timothy C. Fabian, MD, Gregory J. Jurkovich, MD, Grace S. Rozycki, MD, MBA, Thomas M. Scalea, MD, Nicole A. Stassen, MD, and Ronald M. Stewart, MD, San Antonio, Texas				
CURRENT OPINION				
Position statement of the American College of Surgeons Committee on Trauma on the National Academies of Sciences, Engineering and Medicine Report, A National Trauma Care System: Integrating Military and Civilian Trauma Systems to Achieve Zero Preventable Deaths After Injury				
Donald H. Jenkins, MD, Robert J. Winchell, MD, Raul Coimbra, MD, PhD, Michael F. Rotondo, MD, Leonard J. Weireter, MD, Eileen M. Bulger, MD, Rosemary A. Kozar, MD, PhD, Avery B. Nathens, MD Patrick M. Reilly, MD, Sharon M. Henry, MD, Maria F. Jimenez, MD, Michael C. Chang, MD, Michael Coburn, MD, Jimm Dodd, MA, Melanie L. Neal, MS, Justin Rosen, Jean Clemency, David B. Hoyt, MD, and Ronald M. Stewart, MD, <i>Chicago. Illinois</i>				

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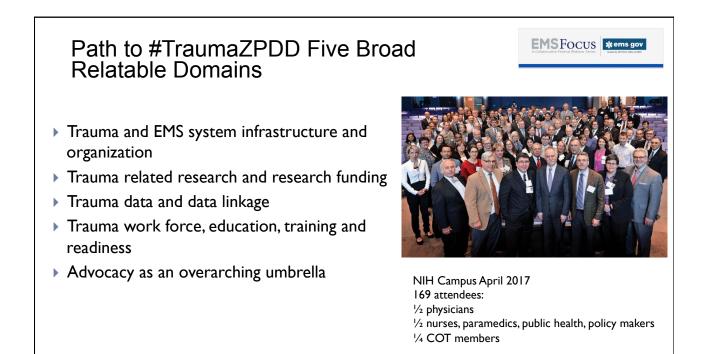


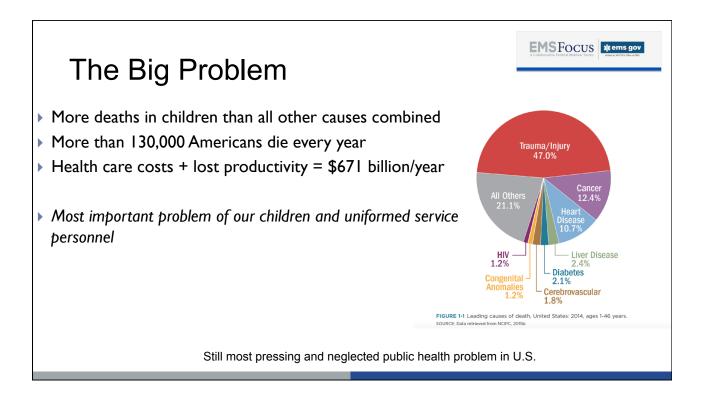
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## ACS Committee on Trauma Pillars

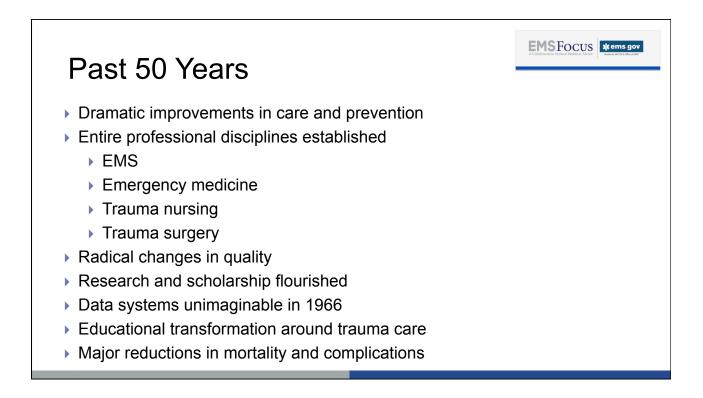
TABLE 1. ACS COT Four-Pillar Approach to the National Leadership in Trauma

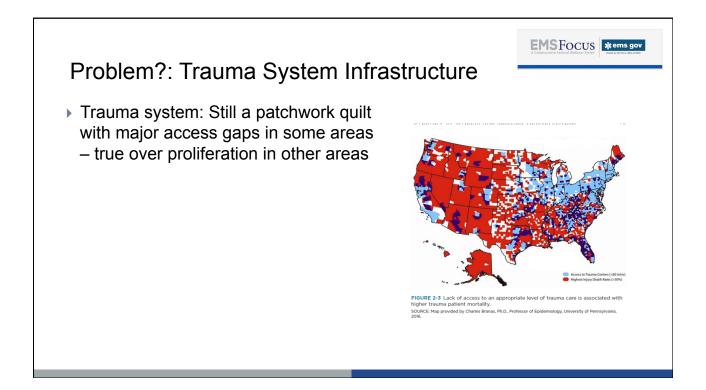
Advanced Trauma Education	<b>Ensure Quality Patient Care</b>	Champion Trauma Systems Strength	Drive Advocacy
Accredited continuing education programs that support medical professionals across the continuum of trauma care. • ATLS course • ATOM course • ATOM course • RTTDC course • DMEP course • ASSET course • ASSET course • Stop the Bleed" campaign • Basic Endovascular Skills for Trauma	A verification program helps trauma centers verify resources, ensure readiness, and improve trauma care. The quality cycle continues with TQIP, a risk-adjusted local and national benchmarking program to measure and inform the improvement of outcomes and PIPS, a performance improvement and patient safety program that continuously measures and evaluates in order to improve care. • Resources for Optimal Care of the Injured Patient • VRC • TQIP • PIPS	<ul> <li>Comprehensive expert assessment and consultative guidance for the improvement or development of state and regional trauma systems. Integrates and partners with multidisciplinary teams in each locality or region.</li> <li>Trauma Systems Consultation for counties, regions, states, or systems</li> <li>Benchmarks, Indicators and Scoring facilitations</li> </ul>	Advocacy activities at the federal and state level focused on prevention, socioeconomic, legislative, and regulatory issues affecting trauma care. Develop and advocate health care policy that is in the best interest of trauma patients, such as the Stop the Bleed Campaign (also known as bleeding control or BCon). Promote injury prevention and control programs aimed at reducing needless injury, death, and suffering
AMERICAN COLLEGE OF SURGEONS Impiring Quality: Highest Standards, Better Outcomes			The Committee on Trauma

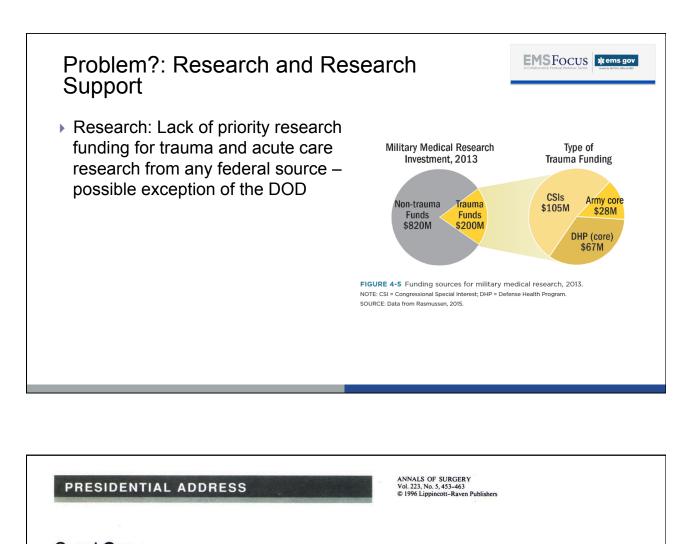












## Seed Corn Impact of Managed Care on Medical Education and Research

James C. Thompson, M.D.

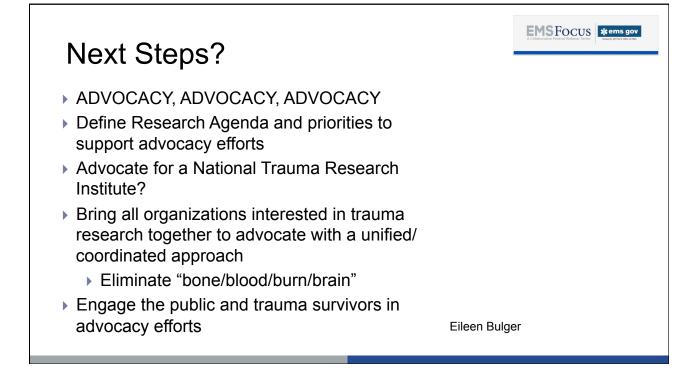
From the Department of Surgery, The University of Texas Medical Branch, Galveston, Texas

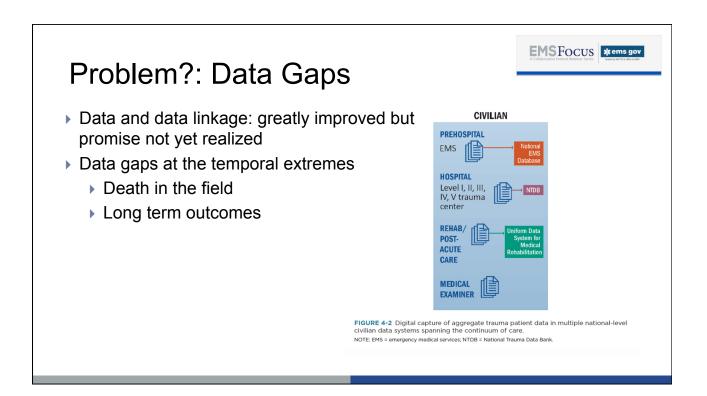
Genesis 41: v. 35 And let them . . . lay up corn . . . v. 36 . . . that the land perish not through the famine.

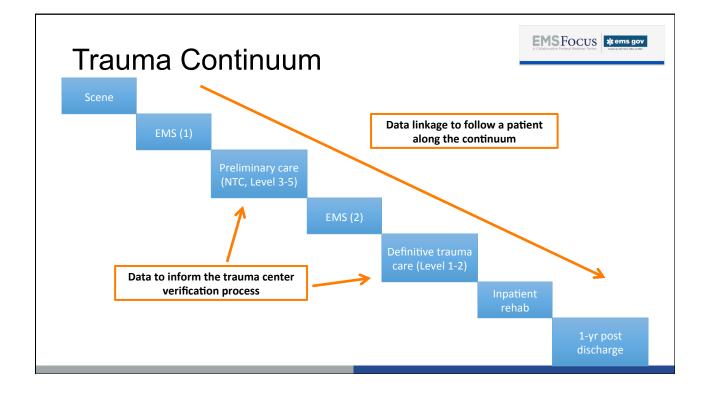
"In the Bible, we are admonished to lay up corn so that the land would not perish through famine. If we fail to invest in future education and research, we may have a medical famine."

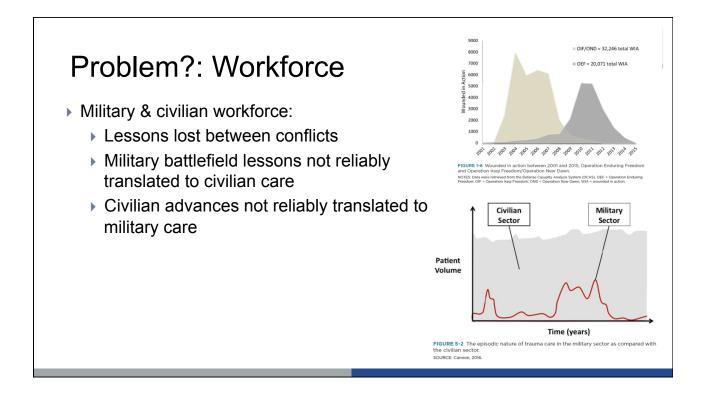
Tim Fabian, 2017 #TraumaZPDD

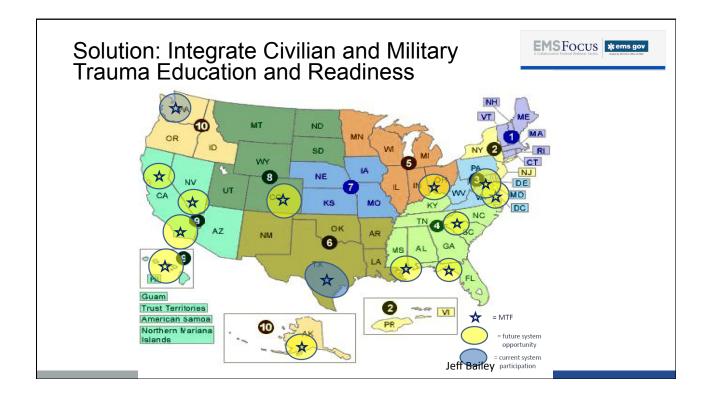


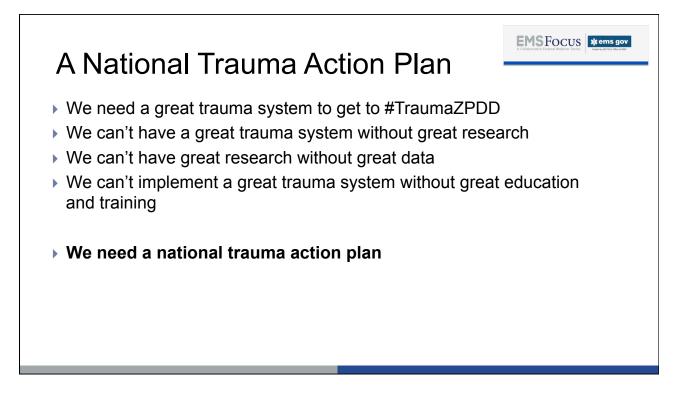












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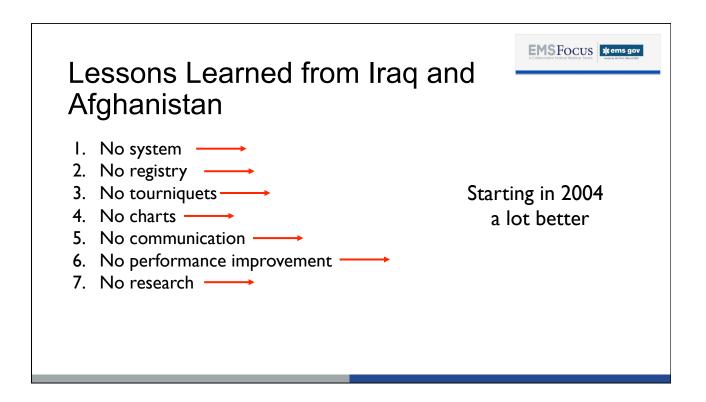
### September 9, 1966: President Johnson sig the National Traffic an Vehicle Safety Act and

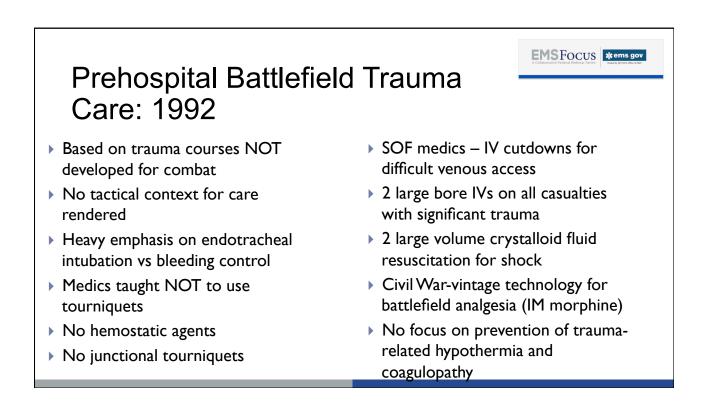
## The Time is Now

- > 50 years since the first great strides were made
- National Academies of Medicine Report
  - 1966 and 2016
- Turbulent times
- Aligned civilian and military leaders
  - Committed group of young and senior leaders
  - Organized commitment
- Still critical need with large burden of disease
- Critical for national and homeland security
- Critical for our children
- Prehospital care critical to getting to #TraumaZPDD







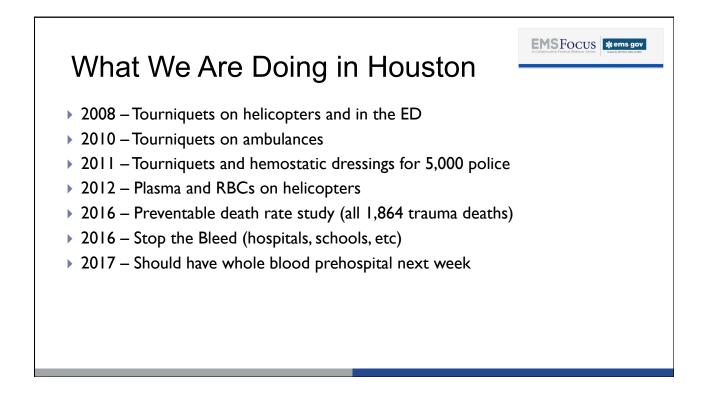


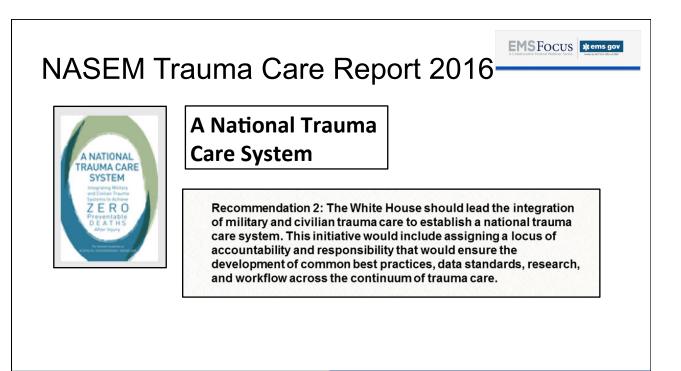
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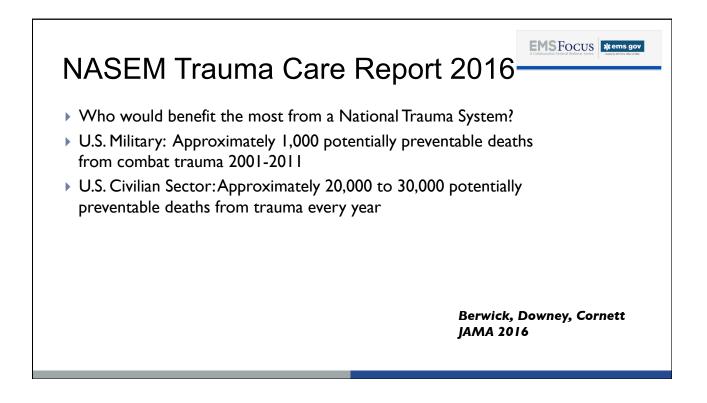
## Prehospital Battlefield Trauma Care: Now

- Phased care in TCCC
- Aggressive use of tourniquets
- Combat Gauze as hemostatic agent
- Aggressive needle thoracostomy
- Sit up and lean forward airway positioning
   Hypothermia prevention;
- Surgical airways as needed for facial trauma
- Hypotensive resuscitation (with blood products)

- IVs only when needed; IO access if required
- PO meds, OTFC, ketamine as "Triple Option" for battlefield analgesia
- avoid NSAIDs
- Battlefield antibiotics
- Junctional Tourniquets/XStat







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## Tactical Combat Casualty Care: Lessons from 14 Years of War



Dr. Frank Butler Chairman, TCCC

