

Arman Dagal MD FRCA MHA(c)
University of Washington

Trauma Systems in Disaster Management





Massacre in Las Vegas killed 58 people and wounded 489



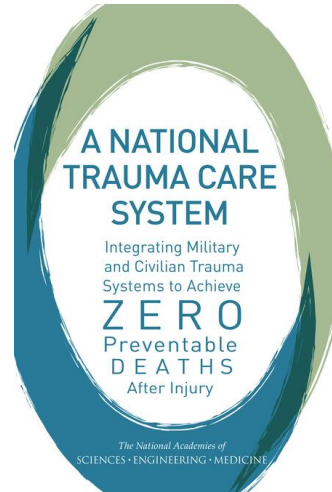
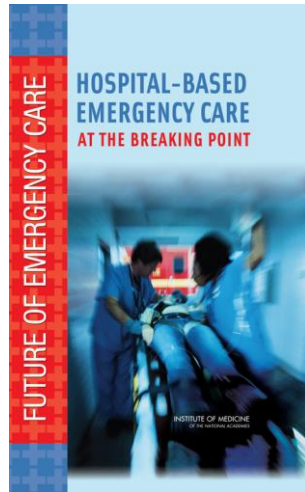
Las Vegas

A **mass casualty incident (MCI)** any incident in which **EMS** resources, such as personnel and equipment, are overwhelmed by the number and severity of casualties

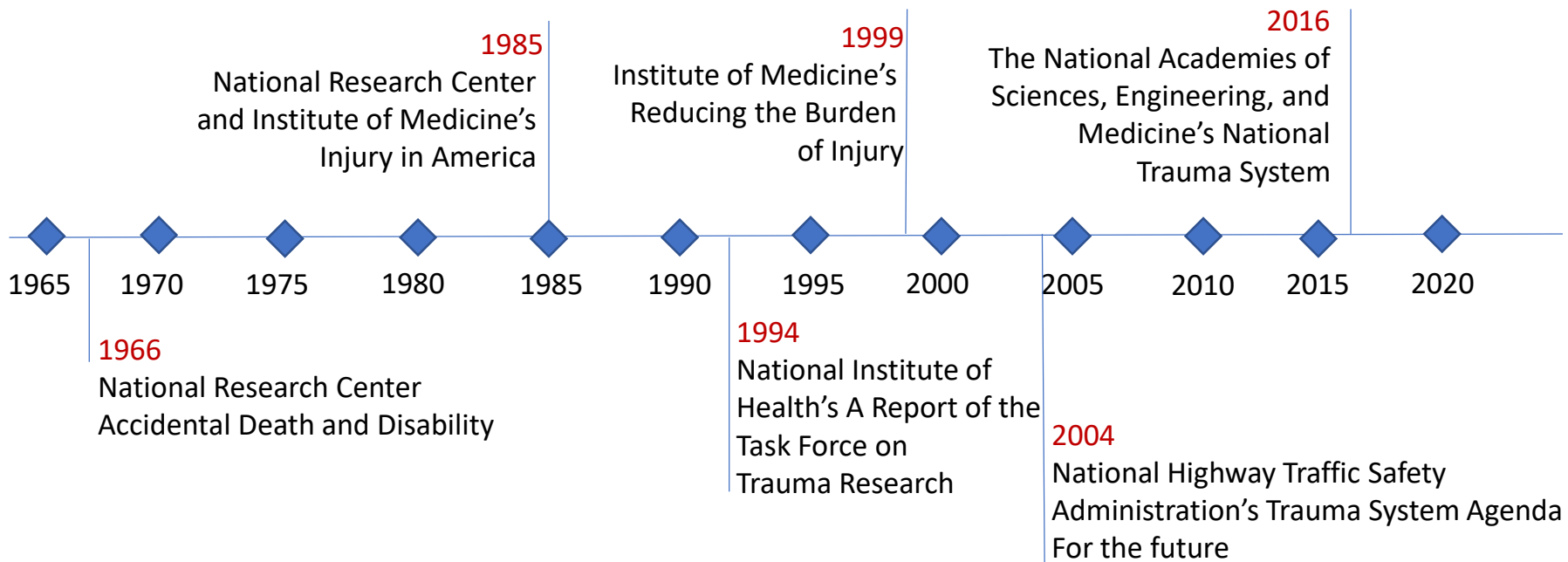
Reducing the Burden of Injury

ADVANCING PREVENTION AND TREATMENT

INSTITUTE OF MEDICINE



“A national trauma system is the backbone for disaster preparedness and national security in our country,” Robert J. Winchell, MD, FACS, Chair, ACS Trauma Systems Evaluation and Planning Committee. “





Learn about response and recovery efforts.



FEMA

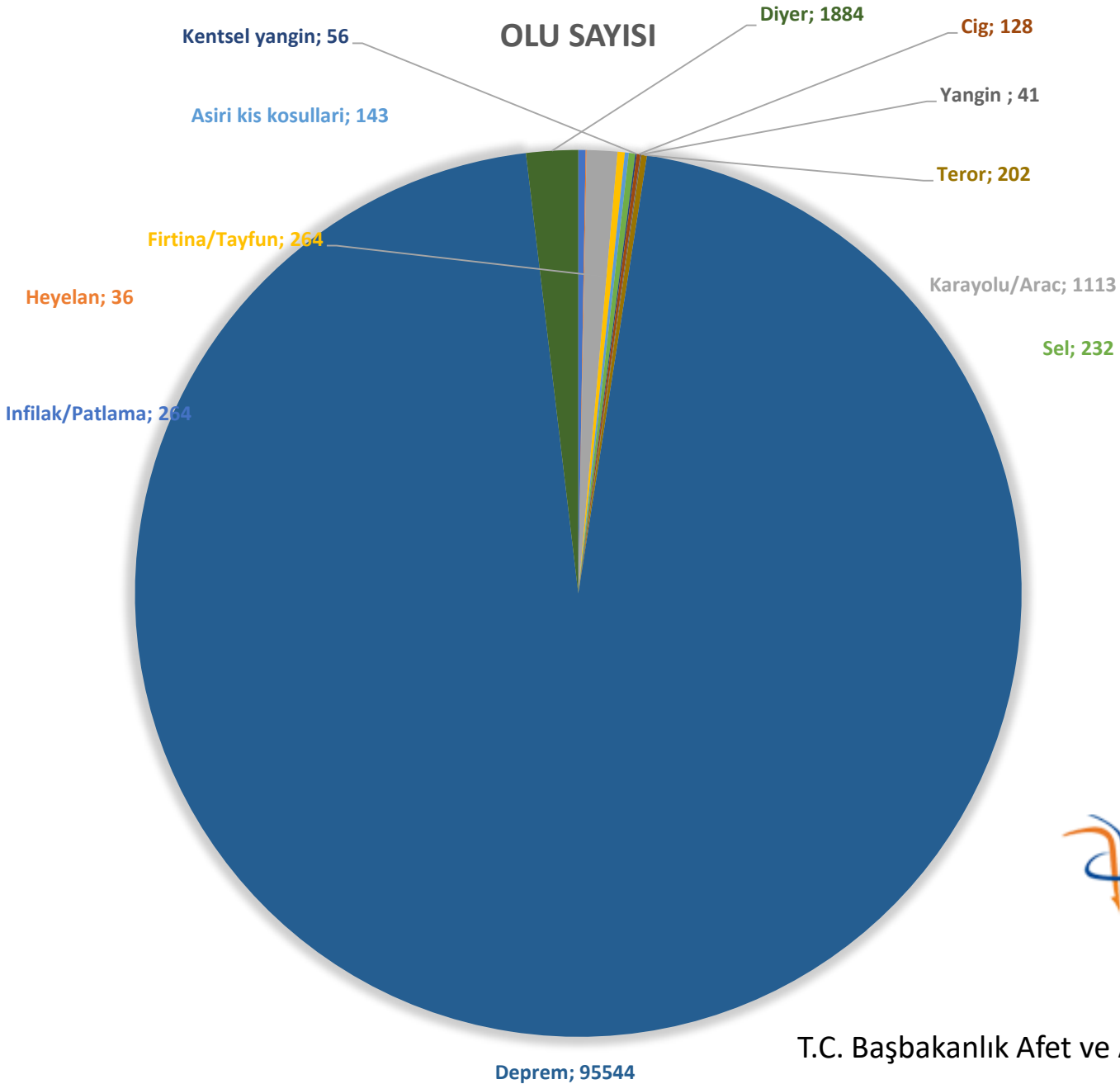
OLU SAYISI



T.C. BAŞBAKANLIK
Afet ve Acil Durum Yönetimi Başkanlığı



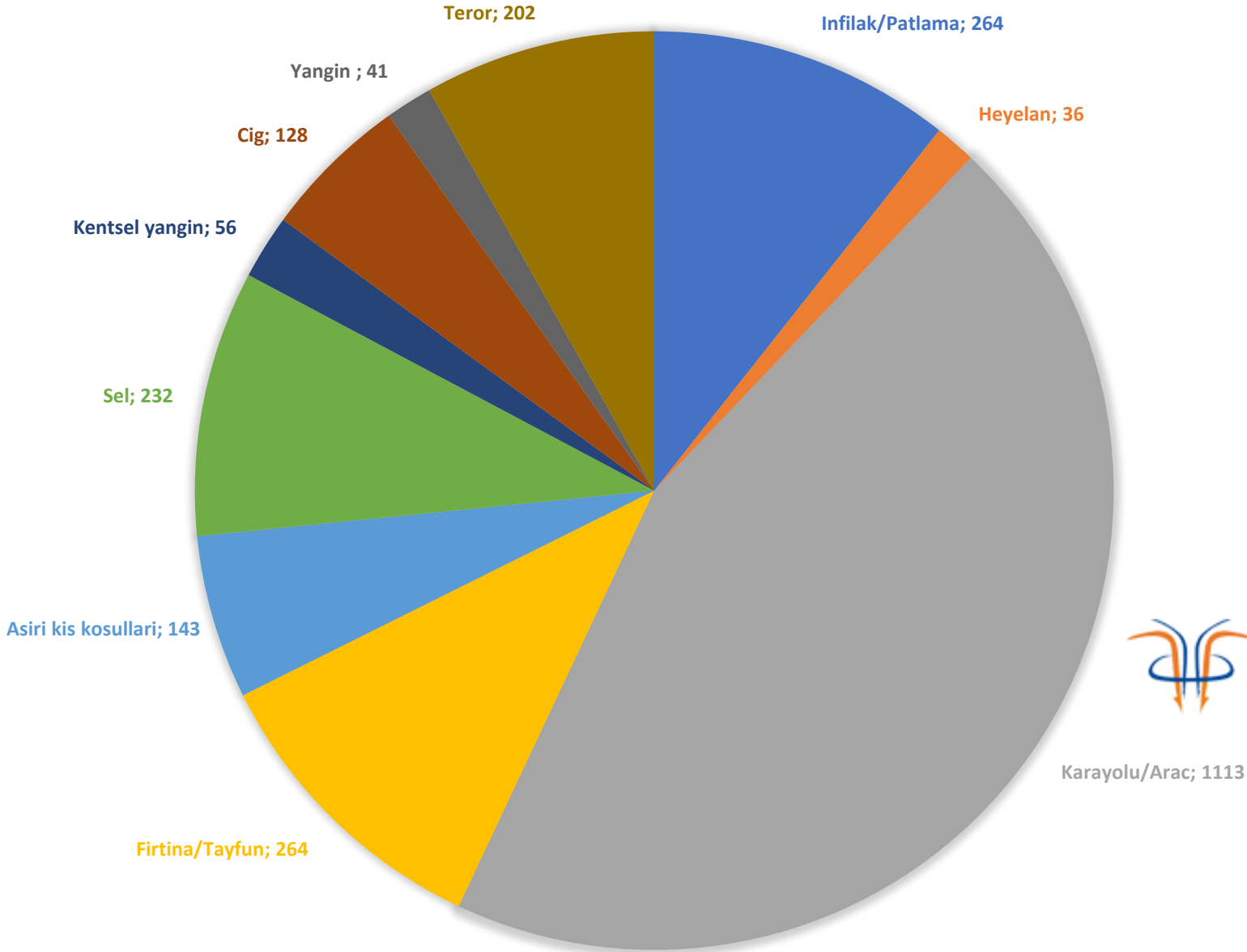
T.C. Başbakanlık Afet ve Acil Durum Yönetimi Başkanlığı



OLU SAYISI 2479

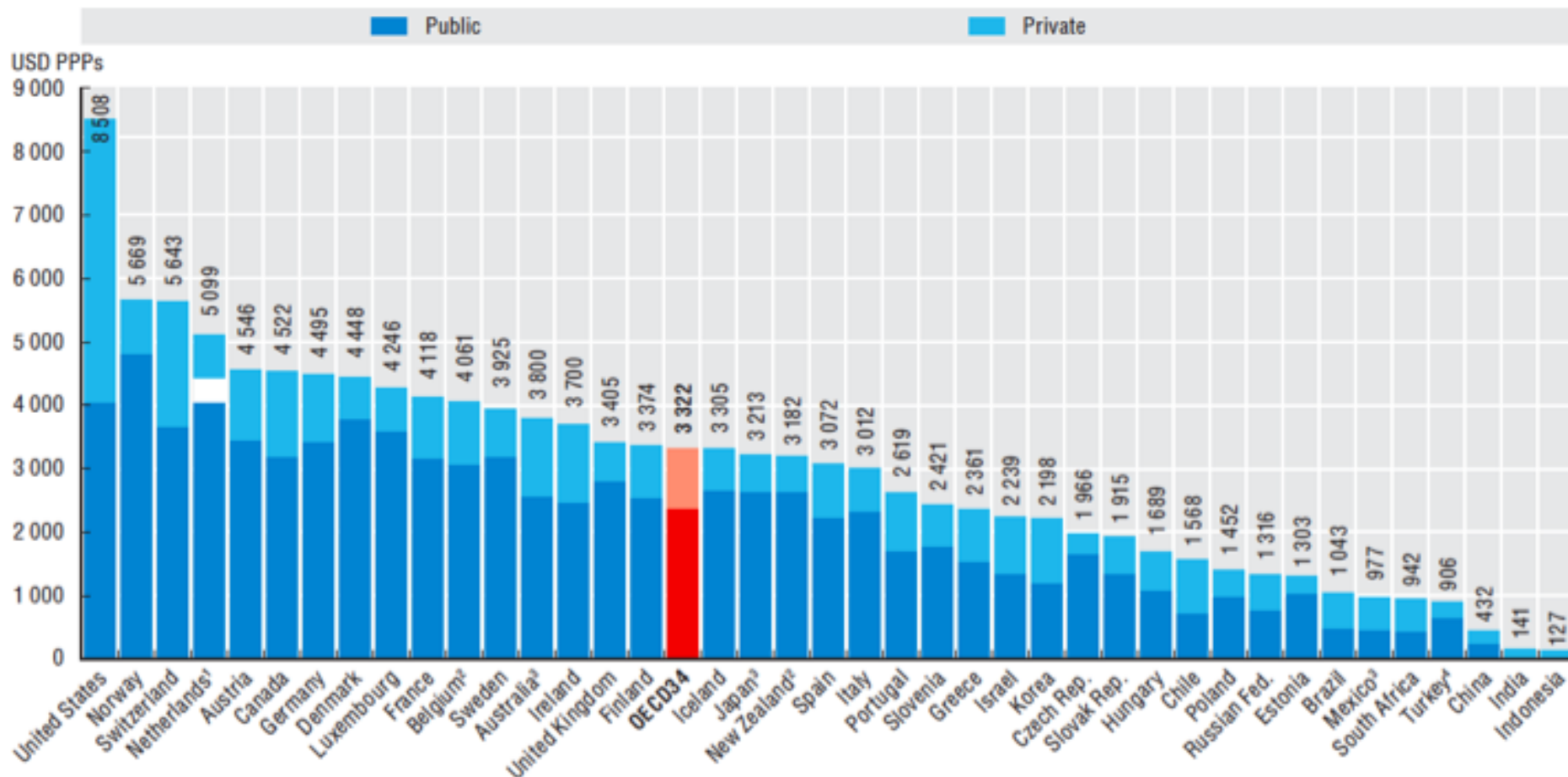


T.C. BAŞBAKANLIK
Afet ve Acil Durum Yönetimi Başkanlığı



T.C. Başbakanlık Afet ve Acil Durum Yönetimi Başkanlığı

7.1.1. Health expenditure per capita, 2011 (or nearest year)



1. In the Netherlands, it is not possible to clearly distinguish the public and private share related to investments.

2. Current health expenditure.

3. Data refers to 2010.

4. Data refers to 2008.

Source: OECD Health Statistics 2013, <http://dx.doi.org/10.1787/health-data-en>; WHO Global Health Expenditure Database.



IHME Celebrating 10 years of
measuring what matters
Institute for Health Metrics and Evaluation

Home

Results

News &
Events

Projects

Get
Involved

About



Roux Prize awarded for saving children's lives through vaccines in Mali

Photo by Rachel Fortunati/IHME. Bamako, Mali, 2017



<http://www.healthdata.org>













SUCCESS





TURKKIZILAYI

1868

WHAT SAVES LIVES IN TRAUMA CARE

- PREPARATION
- PROTOCOLS
- STOP THE BLEED
- NUTRITIONAL SUPPORT
- TRANSFUSION PRACTICES
- “DAMAGE-CONTROL”
- CLOSED ICUs
- ORGANIZATION OF SYSTEMS
- MINIMALLY-INVASIVE TREATMENTS

HiFi

Helping Individuals with Firearm Injuries

A Violence Prevention study is testing community-based intervention to support gunshot wound victims



Harborview Injury Prevention & Research Center

Reducing the impact of injury and violence on people's lives through research, education, training and public awareness.

COMMUNITY RESOURCES



Department	Project
Pediatrics	Child Safety Seat Intervention for Pacific Northwest Tribes
Pediatrics	Pediatric Injury Research Training Program (T32)
Pediatrics	Strengthening Injury Control Research in Ghana and West Africa
Pediatrics	University of Washington Comparative Effectiveness Research Career Development Program (K12)
Pediatrics Epidemiology	Effects of Cannabis on Driving
Surgery	Injury Prevention in Ghana
Pediatrics Neurological Surgery, Biostatistics	Effect Of Treatment On Outcome After TBI in Children and Adolescents
Epidemiology	Mental Illness and Injury
Neurological Surgery, Biostatistics	Amitriptyline to Prevent Headache After Traumatic Brian Injury
Neurological Surgery, Biostatistics	Chronic Effects of Neurotrauma Consortium (CENC) examines the long-term effects of combat-related and military-relevant TBI
Neurological Surgery, Biostatistics	Managing Severe TBI without ICP monitoring – Guidelines Development and Testing
Neurological Surgery, Biostatistics	Telephone Delivered Cognitive Behavioral Therapy for Chronic Pain after Traumatic Brian Injury
Neurological Surgery, Biostatistics	Transforming Research and Clinical Knowledge in Traumatic Brian Injury (TBI): Improving outcome assessments and effectiveness and costs of tests, treatments and services
Neurological Surgery, Biostatistics	UW Traumatic Brian Injury Model System: Rehabilitation care and outcomes
Neurological Surgery, Biostatistics Biobehavioral Nursing	Impact of Aging on the Immune Response to Traumatic Brain Injury

Save a life! | Bleeding Control Kits are now available. Visit the online store. [Purchase](#)



AMERICAN COLLEGE OF SURGEONS
Inspiring Quality:
Highest Standards, Better Outcomes

100+years



THE
COMMITTEE
ON TRAUMA



BLEEDINGCONTROL.ORG

Contact Us



SAVE A LIFE

Instructor Portal >

Enter Keyword



About

News Updates

Resources

Store

Find a Class

< **Bleeding
emergency?**

What to do now



RESPONSE TO “ERRORS”

Quality Improvement
programs

A

Error group	1996	1997	1998	1999	2000	2001	2002	2003	2004
Uncontrolled thoracic hemorrhage	•	•••	•			•			
Interhospital transfer of unstable pt	••								
Complications of feeding tubes		•	•						•
Retained foreign body in OR				•					

Focus on the system
Critical, objective and
evidence-based
Non-confrontational
Education



100+years

AMERICAN COLLEGE OF SURGEONS

Inspiring Quality: Highest Standards, Better Outcomes

Become a Member >

Member Login >

Search Options



Enter Keyword



[Member Services](#)

[Quality Programs](#)

[Education](#)

[Advocacy](#)

[Publications](#)

[About ACS](#)

[American College of Surgeons](#) > [Quality Programs](#) > [Trauma](#) > National Trauma Data Bank



National Trauma Data Bank

[About NTDB](#)

[National Trauma Data
Standard \(NTDS\)](#)

National Trauma Data Bank

The National Trauma Data Bank[®] (NTDB[®]) is the largest aggregation of U.S. trauma registry data ever assembled. Participation is voluntary and is one of the leading performance improvement tools of trauma care. You will find the operational definitions for the NTDB in the [National Trauma Data Standard \(NTDS\) Data Dictionary](#), which is designed to establish a national standard for the exchange of trauma registry data. Registry data that is collected from the NTDB is compiled annually and disseminated in the forms of hospital benchmark reports, data quality reports, and research data sets.



Training And Education