

The logo consists of a red cross shape on the left side. The word "NATIONAL" is written in black, uppercase letters across the top bar of the cross. The word "TRAUMA" is written in black, uppercase letters across the middle bar of the cross. The word "INSTITUTE" is written in black, uppercase letters across the bottom bar of the cross.

**NATIONAL
TRAUMA
INSTITUTE**

Funding Research ■ Changing Practice ■ Creating Awareness



What is Trauma?

- Any serious injury resulting from intentional or unintentional violence
- Can primarily result in:
 - Bone fractures
 - Head injuries
 - Burns
 - Hemorrhage
 - Organ damage
- Secondarily:
 - Shock
 - Respiratory failure
 - Infection
 - PTSD
 - Death



Trauma is Complex

- Direct mechanical insult AND systemic disturbance of the entire body
- Trauma is uniquely defined by the urgency and location of treatment
- Many medical specialties
- Affects diverse populations
- Different treatment considerations for very young and very old



Impact of Trauma in the US

- Leading cause of death for people aged 1-44 years
- Fifth leading cause of death overall
- 29 million people are treated in hospital emergency departments for trauma each year
- More than 170,000 Americans die every year as a result of trauma
- 30% of all life-years lost = more than cancer + heart disease + HIV combined
- Health care costs + lost productivity = \$406 billion/year



Military Trauma

- Operation Enduring Freedom/Operation Iraqi Freedom
 - Number of injuries: more than 34,000*
 - Number of deaths: more than 5000*
- Deaths in OEF/OIF per year are ½ of 1% of civilian deaths in the USA

*As of June 2009



Trauma Needs Research!

- A soldier wounded in Iraq will receive the same salt solution that was used in Korea. The best fluids for resuscitation are still not determined.
- Military doctors serving today in OIF/OEF have the same problems storing blood that plagued doctors decades ago.
- Traumatic brain injury has only recently become a significant field of research.
- It is still unclear whether drugs can stem hemorrhage from internal bleeding.
- Non-compressible hemorrhage remains the top military research priority.
- Appropriate ventilation management options are highly debated and need resolution.
- Burn treatment is still plagued by a lack of effective skin covering or skin replacement.



Trauma's Funding Gap

- Among more than two dozen research institutes at the NIH – none is devoted exclusively to trauma
- Ratio of support* at NIH:
 - HIV \$3.35
 - Cancer \$1.65
 - Trauma 10 cents
- At least three major Government reports have called for more research money for trauma, but money has never been appropriated

* \$mill/yrs potential life lost/100,000 population



National Trauma Institute

- NTI Board has national scope and leadership
- To create awareness of burden of trauma on society
- To raise research funds from Congress and private philanthropy to:
 - Award research grants for near-term translational research projects
 - Establish data registries for analysis of treatment options
- Disseminate results to the national medical community to improve clinical practice
- Reduce death and disability in America



NTI Vision

To stop unnecessary suffering from trauma through prevention, education, and research and ultimately decrease rates of death and disability in trauma patients. NTI will be recognized as the premier grant making institution for translational trauma research.

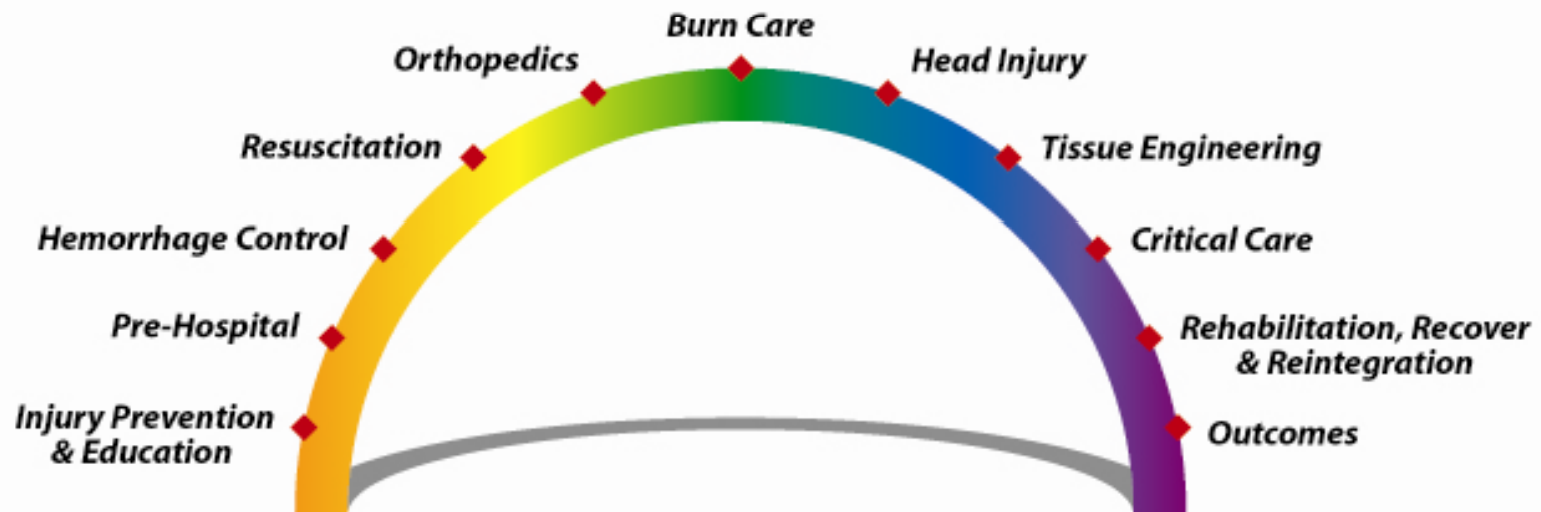


NTI Mission

To reduce injury, death, and disability by:

- Elevating trauma on the national research agenda;
- Increasing scientific knowledge related to trauma, burns, and injury prevention; and
- Changing clinical practice throughout the nation and world.

Research Scope



Purpose: Identify and commercialize revolutionary medical technologies for trauma care through data driven needs analysis and translational research.

Conclusion

- Injury occurs every day and in every state of our nation.
- It does not discriminate between age or social groups.
- The rates are not declining.
- New interventions will make a difference in both the military and civilian arenas.
- We can make a difference.