



Eastern Association for the Surgery of Trauma

27th Annual Scientific Assembly

Sunrise Session 01

Improvised Explosive Devices: Immediate Care & Resuscitation

January 15, 2014

Waldorf Astoria Naples

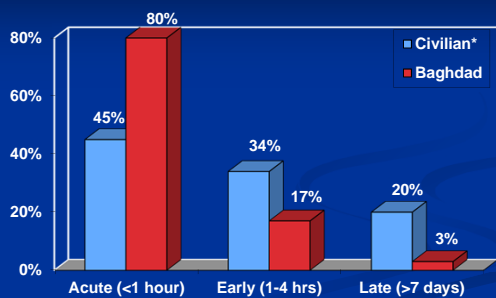
Naples, Florida

Improvised Explosive Devices: Initial Care



EAST Sunrise Session
COL Matthew Martin, MD

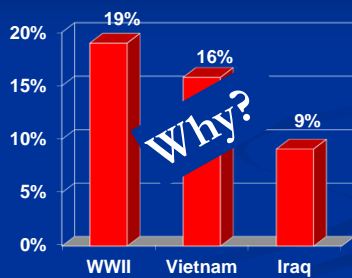
Trimodal Distribution?



Martin et al., J Trauma 2009

Combat Stats: The Good News

Case Fatality Ratio (Killed in Action)



Martin et al., J Trauma 2009



Mine-Resistant, Ambush-Protected Vehicle (MRAP)

MRAPs like the Cougar can weigh two to five times as much as humvees, prompting concerns that they could cause some bridges to collapse. But sitting up high allows soldiers to see more.

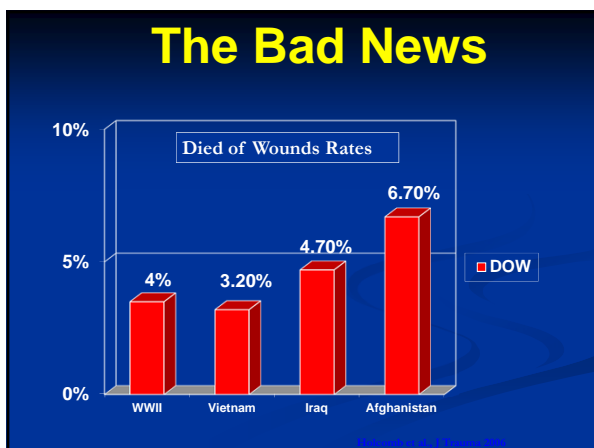
Passengers: Up to 4, plus driver and codriver

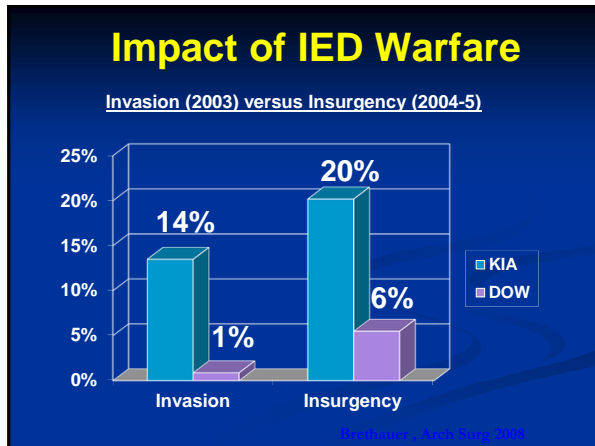
V-shaped hull (to better deflect deeply buried roadside bombs)

Run-flat tires

COUGAR **HUMVEE**

HORSEPOWER 330 at 2,400 rpm
RANGE 420 miles
HEIGHT Approx. 104 inches
WIDTH 108 inches
LENGTH OVERALL 233 inches
WEIGHT 32,000 lbs.
PAYLOAD MAX Up to 6,000 lbs.



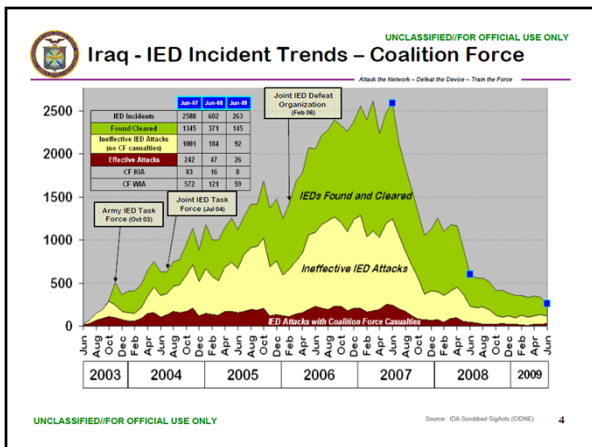














HEADQUARTERS
International Security Assistance Force/
United States Forces-Afghanistan
Kabul, Afghanistan
APO AE 99356

COMISAF/CDR USFOR-A

1 August 2010

FOR The Soldiers, Sailors, Airmen, Marines, and Civilians of NATO ISAF and US Forces-Afghanistan

SUBJECT: COMISAF's Counterinsurgency Guidance

COMISAF

SUBJECT: COMISAF's Counterinsurgency Guidance

Walk. Stop by, don't drive by. Patrol on foot whenever possible and engage the population. Take off your sunglasses. Situational awareness can only be gained by interacting face-to-face, not separated by ballistic glass or Oakleys.

David H. Petraeus
General, United States Army
Commander, International Security Assistance Force/
United States Forces-Afghanistan

"Dismounted Complex Battle Injury"

DCBI Task Force convened 2011-2012

- Afghanistan "surge" in 2010
- Change in TTPs
- COIN
- 2010
 - twice as many triple and quadruple amputees than all previous years combined

Explosive/Blast Injuries

Primary	Secondary	Tertiary	Quaternary
Blast Wave	Shrapnel	Force	Thermal
Responsible for most death Blast lung	Penetrating trauma	Head injury Fractures	Burns, Exacerbation of previous condition



Setting – POI Care





■ Advanced Trauma Life Support

- Airway
- Breathing
- Circulation

“The fate of the wounded lays with those who apply the first dressing.”
- Col. Nicholas Senn, 1844-1908

- Tactical Combat Casualty Care
 - Circulation
 - Airway +
 - Breathing
 - Tactical situation

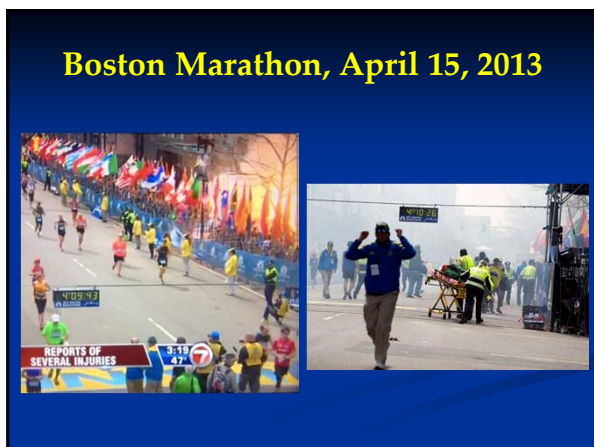




Tactical Trauma Care Setting – Shrapnel Wound in the Hindu Kush



Boston Marathon, April 15, 2013



Boston Marathon Bombing



Expert Panel

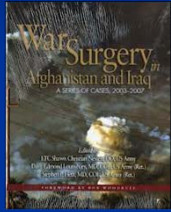
- COL Leopoldo Cancio, USA
- CDR Carlos Rodriguez, USN
- LTC David King, USA
- Lt Col Joseph DuBose, USAF

Case Presentations and Discussion

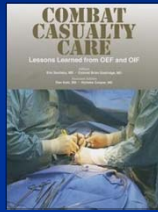
Where Can I Learn More?

- Tactical Combat Casualty Care Course (TC3)
 - http://www.health.mil/Education_And_Training/TCCC.aspx
- Combat Clinical Practice Guidelines (CPGs)
 - http://www.usaisr.amedd.army.mil/clinical_practice_guidelines.html
- Emergency War Surgery Manual
 - https://ke.army.mil/bordeninstitute/other_pub/ews/EWS.ZIP

Where Can I Learn More?



Borden Institute



Borden Institute



Springer Publishing
