

"Military Medical Partnership's Vital Role in Warrior Health"











USAMRMC's Military Medicine Partnership Days 2015

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Themes



1. Warrior and Military Family health is deeply personal to all of us.

2. Unprecedented Warrior health protection and battlefield survival have been outcomes of effective partnerships.

3. We want to work with you; get to understand the military medical requirements and focus. Innovation and cutting edge ideas are pipe-dreams without willing partners in academia and industry.







"Americans should not expect one battle, but a lengthy campaign, unlike any other we have ever seen."

President George W. Bush Address to a Joint Session of Congress September 20, 2001





Protecting the Force



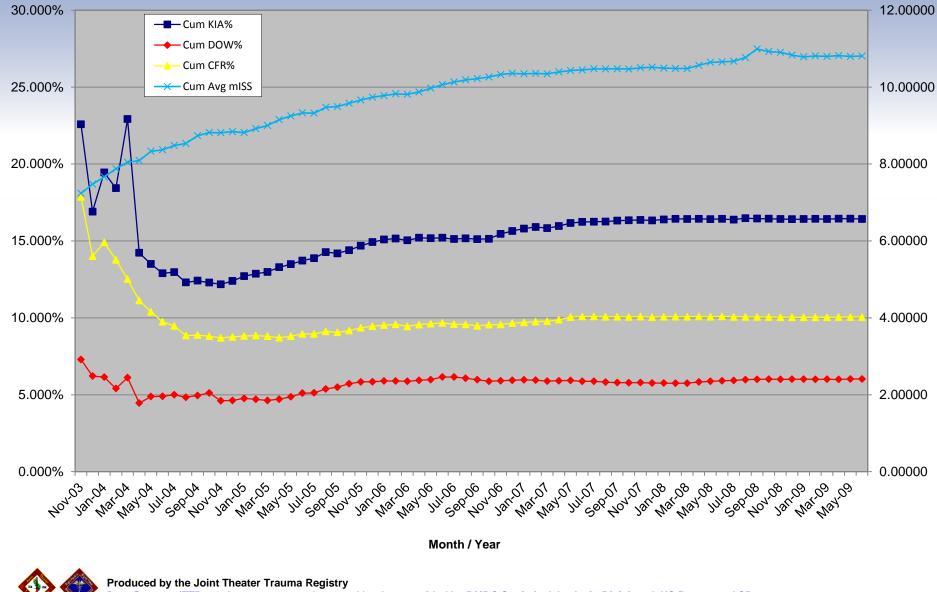








Died of Wounds Rate Remained Stable Despite Steadily Rising Military Injury Severity Scores



Data Source: JTTR v.3 data extract supplemented by data provided by DMDC Statistical Analysis Division & US Pentagon OSD



Improvements in Warrior Care



- Improvements on the battlefield
 - Better trained medics
 - Improved equipment
 - Far forward emergency & surgical care
- Improvements in in-theatre (tactical) evacuation

Improvements in between-theatre (strategic) evacuation

Medics and Corpsmen











US IFAK: Saved Countless Lives & Limbs









Combat Application Tourniquet (CAT)

North American Rescue



Evacuation: Tactical and Strategic









Transformed Strategic Evac System: One Trauma System... Three Continents... 7,000 miles...









Portable Infusion Pump for Regional Anesthesia and Pain Control







ambIT Infusion Pump

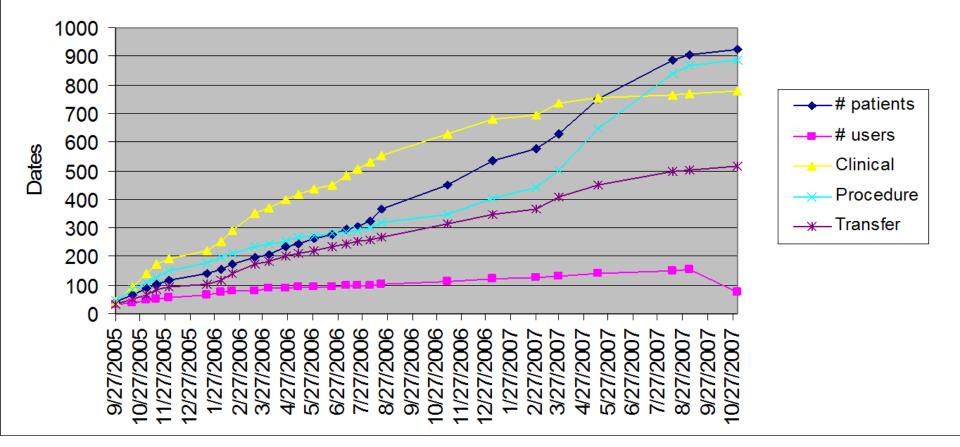
Army SPC Brian Wilhelm—the first patient treated with regional anesthesia in combat by COL (Dr.) Trip Buckenmaier in 2003



Rapid Adoption by Providers and Relief for Patients



RATS patient progression





"To stay a Soldier..."







Changes in Combat Wounds



Better Battle Field Tactics and Personal Protective Equipment Results in Greater Survivable Battle Injuries



WW II: 1:1 ratio of wounded to fatality

OIF/OEF: 9:1 ratio of wounded to fatality

| | % Body Area | WWII | Korea | Vietnam | OIF/OEF |
|-------------|----------------|------|-------|---------|---------|
| Head & Neck | 12% | 21% | 21% | 16% | 29% |
| Chest | 16% | 14% | 10% | 13% | 6% |
| Abdomen | 11% | 8% | 8% | 9% | 11% |
| Extremities | 61% | 58% | 60% | 61% | 54% |

Owens, J Trauma FEB 2008



Top 10 Gaps to Restore Function



| Rank | Capability Gap |
|------|--|
| 1 | Treatment of Extremity Injury |
| 2 | Pain Management |
| 3 | Rehabilitation of Neuromuscular Injuries |
| 4 | Treatment of Craniofacial Injury |
| 5 | Treatment of Skin Injury (burns and scars) |
| 6 | Visual system Regeneration |
| 7 | Orthotics, Prosthetics & Robotics |
| 8 | Visual system Rehabilitation |
| 9 | Auditory System Regeneration |
| 10 | Treatment of TBI associated dysfunction |

Effective treatment requires rehabilitation strategies to support regenerative medicine technologies



Blast Injury from Exploding Ordnance



Workshop at the Walter Reed Amputee Center



TBI Suffered in Iraq





AFIRM Areas of Emphasis





Craniofacial Reconstruction

IRIV



Burn Repair



Scarless Healing



Limb and Digit Salvage



Compartment Syndrome



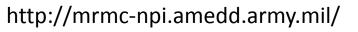
Industry Opportunities

US Army Medical Materiel Agency US Army Medical Research and Materiel Command

https://www.dmsb.mil/VDay/vendorDay.asp



VENDOR DAY IS A COOPERATIVE VENTURE BY THE MILITARY SERVICE MEDICAL LOGISTICS AGENCIES LOCATED ON FORT DETRICK





USAMRMC NPI | NEW PRODUCTS & IDEAS

The United States Army Medical Research and Materiel Command's (USAMRMC) mission is to provide medical solutions to protect and sustain the health and performance of the force across the continuum of military operations by (1) conducting research, developing health care solutions and enhancing the delivery of health services for the warfighter; and (2) providing medical logistics support to the Army and to the acquisition of medical material.

USAMRMC is seeking medical solutions for the battlefield with a focus on various areas of biomedical research, including military infectious diseases, combat casualty care, military operational medicine, medical chemical and biological defense, and clinical and rehabilitative medicine. To learn more about the Command's mission and interests, go to http://mrmc.amedd.army.mil.

WHAT IS THE PURPOSE OF NPI?

The intent of the New Products and Ideas (NPI) system is to provide USAMBMC with visibility of new products and ideas that support our mission, either as currently configured or with additional development. The NPI provides a means for our subject matter experts to assess these products and ideas, evaluate their applicability to USAMRMC's mission, and provide feedback to the submitter. It provides the vendor an opportunity to showcase their product or idea without needing to travel to Fort Detrick and without giving anyone an unfair competitive advantage.

Submission to the NPI is not a substitute where other vehicles are more appropriate, such as responding to Requests for Proposals (RPFs), the Broad Agency Announcement (BAA) or Program Announcements (PAS), nor does it take the place of a pre-proposal that may be required by a BAA or PA.

For new products or ideas related to programs, treatments, research, and devices for psychological health and traumatic brain injury, please consider visiting the Defense Centers of Excellence for Psychological Health and Traumatic Brain Injury (DCOE) Concept Submission Program (CSP) website at http://www.coe.health.mil/ConceptSubmissionProgram.aspx.

http://www.dcoe.neaitn.mii/ConceptSubmissionProgram.aspx

The goal of the DCoF Concent Submission Program is to gather

- Please Read!

This website uses SSL encryption on all pages except the Home page. There is an issue with most commercial Web browsers (IE, FireFox, etc.) that might display a certificate security warning when you try to reach an SSL-protected page.

If you get this warning, you are **NOT** at risk on the MRMC-NPI website.

You can either (1) proceed at the certificate warning -this creates a security exception and prevents the warning from appearing again in that browser for that site, or (2) install DoD root certificates to permanently resolve the issue. More detailed instructions for both options are included on the MRNC page, <u>Problem with</u> <u>this Website's Security Certificate?</u>

NPI User Logon

| | istered, enter your login Illy your email address. | information here |
|------------|---|------------------|
| User ID: * | | |

Password: * Login
Forgot your password or wish to reset it? Forgot Password

Click 'Forgot Password' button to generate a new password, which will be emailed to the PI and POC email addresses.

| IPI User Registratio |
|----------------------|
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By registering, you will be allowed to **save** your Submission Form at any time before submitting your information. Register









Thank you! Questions?

