

Interact

JTAPIC Analysis & Collaboration System (JACS) Site Information:
<https://jtapic.arl.army.mil/jacs/>

Visit

JTAPIC Public Webpage:
<http://jtapic.amedd.army.mil>

Joint Trauma Analysis & Prevention of Injury in Combat

Prevention of Injury Through Actionable Analysis



Tell Us What You Need

Submit an Analysis Request

Access Products

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UNCLASSIFIED

What JTAPIC Offers

Prevention of Injury Through Actionable Analysis

Improved protection systems, enhanced Warfighter survivability, and reduction of injury.

Mission

Inform solutions that prevent or mitigate injury during the full range of military operations by collaborative collection, integration, analysis, and storage of data from operations, intelligence, materiel, and medical sources.



Multidisciplinary Analysis

- Surveillance of combat incidents and accidents in the deployed environment
- Integration of intelligence, operational, medical, and materiel (e.g. vehicles, protective equipment) data from the incident
- Analysis of events, and series of events, with the intent of discovering trends or information useful for preventing or mitigating injury
- Specific directed missions (mTBI surveillance, sensor monitoring)
- Compare test and evaluation results to actual events to identify potential gaps in testing
- Rapid-turn around of analysis products to decision-makers.

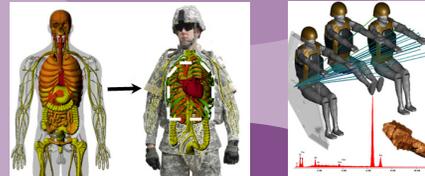
CAUSE



EFFECTS



ACTIONABLE ANALYSIS



RESULTS

- Identification of vulnerabilities in operational tactics, vehicles, and protective equipment
- Decision support to the DoD acquisition community
- Monitor performance of protection systems
- Improved models and simulations



Success Stories

JTAPIC analysis products provide solutions/ decision support leading to:

1. Improved vehicle design and survivability
 - Stryker double-V hull, flat-bottom hull mine protection kit & driver compartment improvement
 - MRAP underbody improvement kit
2. Information to improve TTPs
 - Changes to gunner egress of vehicles
 - MRAP Egress Trainer redesigned restraints and egress handles
 - Identified training needed to avoid Service Members stepping off cleared path
 - Fielding and use of Sickie Sticks as counter-IED tool
3. Information to improve or enhance Personal Protective Equipment
 - Urogenital injury analysis to evaluate effectiveness of ballistic undergarment protection
 - Improved testing protocols for helmets
 - Decision to use a new plate carrier (lighter weight armor vs. vulnerability)
 - USMC modular body armor system development
 - Extensive analysis ISO helmet-test protocols

