

# COMBAT CASUALTY CARE RESEARCH & DEVELOPMENT



## Accelerating Innovation to Save Lives

Geneva advances operational medicine with mission-ready research that transforms trauma care - when every second counts. From point of injury to evacuation, we deliver solutions in hemorrhage control, resuscitation, trauma care, blood products, and prolonged field care. Built for battlefield conditions, these interventions ensure service members receive the highest standard of care wherever duty calls.

## The Geneva Advantage

With deep DoD expertise and agile infrastructure, Geneva accelerates innovation by guiding promising ideas through complex regulatory, operational, and contracting pathways—turning discovery into deliverable care for the battlefield.

- **Mission-Aligned Expertise**  
Proven track record executing DoD-prioritized, operational research for service members
- **End-to-End Support**  
From proposal to dissemination, we manage every step
- **Strategic Access**  
Embedded at military sites with direct reach to service members and multidisciplinary partners
- **Accelerated Impact**  
Advancing research to field-ready solutions through agile, cross-sector partnerships

## Mission Metrics

Active Funds Managed in 2024

**\$54.7M**

Active Research Projects

**47**

Principal Investigators

**27**

Research Sites

**35**

## Critical Areas of Innovation

### Hemorrhage & Blood

Blood and bleeding control solutions

### Surgical & En Route Care

Life support and evacuation protocols

### Burn & Pain

Pain management and recovery

### Austere Care

Scalable care in resource-limited settings

### Shock Mitigation

Early interventions to reduce trauma impact

### AI & Decision Support

Real-time, data-driven clinical guidance

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253.383.1398



genevaUSA.org

*Data represents 1 January 2024 - 1 June 2025*



## Leading the Frontlines of Research — Project Spotlights

### Improving Wound Care Training for Evacuation Teams

In a recent study, researchers evaluated short, video-based curricula designed to train non-surgeon medical personnel in managing and troubleshooting Negative Pressure Wound Therapy (NPWT) or *wound vac* devices. Compared to standard clinical practice guidelines, participants who viewed the videos demonstrated significantly better performance in identifying device components and resolving common failures during simulated trauma care.

#### Impact

This research validated an accessible, scalable training tool that enhances medical readiness for managing complex wounds during prolonged or en route care, especially in austere and high-turnover operational settings.

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### Finding the Bleeding Edge in Combat Trauma

Geneva supports a retrospective analysis of over 11,000 combat casualties to assess whether a transfusion threshold exists beyond which survival becomes unlikely. By analyzing data from 2002 to 2020, the study challenges conventional assumptions about futility in ultra-massive transfusions, showing that even among patients receiving more than 100 units of blood products, the majority survived the first 24 hours.

#### Impact

This research informs military trauma protocols by reinforcing the life-saving potential of aggressive transfusion strategies in combat settings, supporting evidence-based decisions during mass casualty events, and resource-constrained care.

## Together, We're Redefining What's Possible in Combat Casualty Care

Whether you're a researcher, policymaker, or industry innovator, Geneva brings the expertise, infrastructure, and partnerships needed to deliver results where they matter most—on the front lines of defense health.

Let's develop battlefield-ready solutions that save lives and shape the future of combat casualty care.

Learn more about Geneva's  
Combat Casualty Care research:

