

# Human Worn Partial Task Surgical Simulator (a.k.a. Cut Suit)

The Cut Suit is the most realistic way to simulate the look, feel and smell effects of severe traumatic events on a live human while allowing first responders and physicians to safely perform real procedures on a live human - from the point of injury, to treatment en route, and transition of care to surgical intervention.



## Features Unique to the Patent-Pending Cut Suit:

- The system can be worn during even intensely physical scenarios at the POI (Point of Injury)
- The system weighs approximately 35 lbs (approximately equivalent to current defense issued, fully-loaded IBA)
- Clothing, uniform, body armor, and equipment is usable over the Cut Suit
- The system allows for interaction with a live patient during the emergency assessment and treatment process
- The skin and organs are user repairable, allowing for multiple uses per unit (well beyond 100% repairs to fully lacerated skin)
- Interchangeable organs with variable wound patterns or pathology (internal and external hemorrhaging)
- User created and customizable wounds

## Procedures Currently Available on the Cut Suit:

- Extremity hemorrhage control with tourniquet application, arterial ligation/clamping, internal compression (wound-void packing)
- Iliac arterial hemorrhage control
- Surgical Cricothyroidotomy
- Bilateral anterior and axillary chest needle thoracostomy
- Bilateral surgical chest-tube thoracostomy
- Suturing and stapling of skin in all locations
- Foley catheterization
- External bladder tap
- Thoracostomy and intra-thoracic exploratory surgery and hemorrhage control of gross organ structures
- Laparotomy and intra-abdominal exploration and hemorrhage control of gross organ structures
- Suturing of gross organ structures
- Anastomosis and resection
- Peripheral IV access



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Laparotomy



Cricothyroidotomy



Chest Needle Thoracentesis



Chest Tube



Healthy and Damaged Livers



Thoracotomy