Special Operations Forces

Industry Conference

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Program Manager
Medical Opportunities

SOF WARRIOR
PM Medical Mission

Provide rapid and focused acquisition of SOF-unique MEDICAL capabilities to USSOCOM operators conducting decisive ground SOF activities and global operations against terrorist networks

SOF Unique Medical Attributes:

• Lightest Weight Possible
• Modular, Mission Selectable
• Longest Battery Life
• Multifunctional
Medical Programs Portfolio

**Medic Kit**
Complements unique medical training and capabilities of SOF Medics and other medical personnel assigned to SOF units
- Control life-threatening external hemorrhage
- Provide fluid resuscitation
- Administer medications for pain and prevention of infection
- Provide advanced airway intervention
- IV medications, hypothermia prevention, advanced monitoring and diagnostic capabilities, and intraosseous infusions

**Operator Kit**
Designed to improve self-aid and buddy-aid
- Control life-threatening external hemorrhage
- Administer medications for pain and the prevention of infection
- Maintain airways
Casualty Evacuation (CASEVAC) Set

Provides organic unit-level advanced capabilities to rescue, recover, sustain and transport trauma casualties from point of wounding through all phases of CASEVAC

- Comprised of 4 kits and 13 modules capable of being used independently based on mission requirements
- Will stabilize and sustain casualties in the event of a delayed or difficult CASEVAC
Opportunities: Next 12-18 Months

**Biomedical Initiatives Steering Committee (BISC)**

Senior military medical leaders from all USSOCOM components meet to identify medical R&D areas of interest

- Led by USSOCOM Command Surgeon
- $2,000,000 per year in medical R&D projects
- BAA updated yearly
- Present areas of interest:
  - Damage Control Resuscitation
  - Environment-Specific Medicine
  - Force Protection
  - Canine Medicine
Opportunities: Next 12-18 Months

**Damage Control Resuscitation**
Develop medical techniques and materiel (medical devices, drugs, and biologics) for early intervention in life-threatening battle injuries when MEDEVAC is not possible.

- Global Treatment Strategies
- Field Diagnostics
- Analgesia

**Environment-Specific Medicine**
Develop techniques and materiel (medical devices, drugs, and biologics) to ensure sustained human performance and effectiveness while operating in harsh environmental conditions, wearing appropriate personal protective equipment.

- Optimal Acclimatization Strategy
- High Altitude Pulmonary Edema/High Altitude Cerebral Edema
- Chemical, Biological, Radiological, Nuclear, and Explosive Rapid Diagnostics

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<th>Milestones</th>
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Opportunities: Next 12-18 Months

**Force Protection**
Improve on presently fielded items to protect from extreme environments, contaminated areas, and repetitive low-impulse blast exposures.
- Personal Protective Equipment
- Preventive Medicine
- Repetitive low-impulse blast exposure

**Canine Medicine**
Sustain canine performance in combat environments.
- Altitude Readiness
- Olfaction
- Optimal Nutrition
- Optimal Trauma Resuscitation Strategy and Anesthesia Protocol
- Visual spectrum
- Post Trauma Training / Behavioral Issues

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**Point of Contact**
PM Medical
Present Medical R&D Projects

HAMMERHEAD: Underwater Medical Monitoring (FY12-13)

SEAL SKIN: Hemorrhage Control Dressing (FY12-13)

CREST: NSWCC Peak Health And Performance (FY12-14)

Canine Hydration Optimization (FY12-13)

Blood Donor Pathogen Kit (FY12-13)

Respiratory Muscle Training for Performance at Altitude (FY12-13)
Questions?