DISCLOSURE

• I have no relevant financial relationships with the manufacturer[s] of any commercial product[s] and/or provider[s] of commercial services discussed in this CME activity.

• I do not intend to discuss an unapproved/investigative use of commercial product/device in my presentation.
OBJECTIVES

• Examine the background leading to changes in Tactical EMS
• Discuss trends and changes occurring in EMS regarding Tactical Medicine
• Discuss implementation of current trends in Tactical EMS into existing systems
TACTICAL EMS CHANGES TOPICS

• What’s Hot in the Hot Zone
• Getting Warmer
• Let’s Talk
• Back to School
• Get it Together
WHAT’S HOT IN THE HOT ZONE
HOT ZONE CHANGES

• DoD CoTCCC updates
  • Changes based on data
  • Treatment and device recommendations
  • Standardized med kits across DoD
  • Prep for drones, thermobaric weapons – military and non-military providers
HOT ZONE CHANGES

• Combat Application Tourniquet (CAT) Gen 7 Tourniquet
• Ratcheting Medical Tourniquet (RMT) Tactical Tourniquet
• SAM Extremity Tourniquet (SAM-XT) Tourniquet
• SOF-Tactical Tourniquet-Wide (SOFTT-W) Tourniquet
• Tactical Mechanical Tourniquet (TMT) Tourniquet
• TX2 Tourniquet (TX2) Tourniquet Coyote
• TX3 Tourniquet (TX3) Tourniquet OD Green
• Emergency Medical Tourniquet (EMT) Tourniquet
• Tactical Pneumatic Tourniquet 2" (TPT2) Tourniquet
HOT ZONE CHANGES

- Combat Gauze (CG) Z-Fold Bandage Gauze
- Celox Gauze, Z-fold 5' Dressing
- ChitoGauze Dressing
- iTClamp
HOT ZONE CHANGES

- Combat-Ready Clamp (CRoC)
- SAM Junctional Tourniquet (SAM-JT)
- Junctional Emergency Treatment Tool (JETT)
HOT ZONE CHANGES

- Cric / CricKey
- I-Gel Extraglottic Airway Sz 4 and Sz 5
HOT ZONE CHANGES

- Delineates level of provider and skill sets performance
HOT ZONE CHANGES

• Military medicine adapted to civilian medicine
• SWAT team implementation
GETTING WARMER
WARM ZONE CHANGES
NON-TRADITIONAL TRANSPORT

- MRAP
- Bearcat
- Blackhawk
- Pickup
- LE vehicle
WARM ZONE CHANGES

- Ballistic Gear
- Forward deployed supplies
- Public empowerment and expectations
• Communications – Failure at MCI’s
• LE talks with LE, Fire talks with FIRE, EMS talks with EMS
• Minimal inter-disciplinary communication ability
• Private sector to LE
Our team consists of former US Navy SEALs, Intelligence Officers, Technologists, and Entrepreneurs.

Mike Lahiff, CEO
- Director, Comcast
- Horseman Partners
- MBA, Wharton
- Navy SEAL

Rob Huberty, COO
- Amazon Operations
- MBA, Wharton
- Navy SEAL

Tim Sulzer, CTO
- Multiple Time Founder
- Veg-E Systems
- bonetech

- Toshiba TRO
- Information Capture Solutions Engineer
- US Army

Total Team: 14 Full Time – 7 Tech Team, 5 Operations, 2 Sales
Sequencing

1. Threat approaches.

2. ZeroEyes identifies threat.

3. ZeroEyes sends alert via mobile and desktop notification.

4. ZeroEyes continues to push real-time alerts, images of shooter, and location of threat to first responders.
BACK TO SCHOOL
TRAINING CHANGES

- TECC – Tactical Emergency Casualty Care
- RTF – Rescue Task Force
- STB – Stop the Bleed
- Until Help Arrives – ACEP 19
PUT IT IN ITS PLACE

- Training
- Drills
- Funding
RESOURCES

• Department of Defense, Committee on Tactical Combat Causality Care
  https://deployedmedicine.com/

• Tactical Combat Casualty Care, Tactical Emergency Casualty Care: National Association of Emergency Medical Technicians
  https://nremt.org/

• Stop the Bleed: BleedingControl.org

• Until Help Arrives: American College of Emergency Physicians
  https://acep.org/

• Active Violent Bag, Gun Shot Wound Kit Supplies - V.E. Ralph & Son, PO Box 633, 320 Schuyler Ave, Kearney, NJ 07032, (800) 526-1196, (201) 997-2400

• Zeroeyes
  https://zeroeyes.com/
RESOURCES

Active Violence Bag Contents

• Condor BK Messenger bag [1], MegaMover portable transport unit [1], Dynarex Emergency High Strength Pressure Bandage [3], Nasopharyngeal Airways with Lube [6], Windlass Tourniquets – SAM XT [6], Hyfin Vent Chest Seal Twin Pack [3], Dynarex Conforming Stretch Gauze Bandage 4 inch [6], Dynarex Dyna-Stopper Trauma Dressing [6], START Triage Tags [10], Black Triage Tags [5], Snaplight Safety Lightstick Blue [6], Visi-Pad Red [3], Trauma Shears [1], Permanent marker [2], Tape 2 inch [1], PPE – Gloves [6]

Gun Shot Wound Kit

• Dukal Pressure Dressing [1], Quik Clot [1], SOF-T Tourniquet [1], Biohazard zip bag [1], Instructions [1]
QUESTIONS
Available upon request
THANK YOU