



## Tactical Combat Casualty Care: Transitioning Battlefield Lessons Learned to other Austere Environments



CAPT (Ret.) Brad Bennett PhD, NREMT-P, FAWM - Chair/Moderator  
COL Ian Wedmore MD - Co-Chair  
CAPT (Ret.) Frank Butler MD - Co-Chair

**Introduction:** After thirteen years of continuous combat operations the U.S. Military has made a number of major advances in casualty care. The U.S. and other coalition nations, e.g., United Kingdom, Canada, Australia, and many others, have developed a superb combat trauma system and achieved unprecedented casualty survival rates starting with effective medical care at the point of injury. (Butler F et. al. J Trauma Acute Care Surg 2015) Many of these casualty resuscitation advances have transitioned into some U.S. trauma centers with similar decreased mortality outcomes. However, there is a call to accelerate military-to-civilian translation of these advances in prehospital trauma care information, training and equipment to medical providers in other austere environments. (Butler F et. al. J Trauma Acute Care Surg 2015; Jacobs L et. al. Bull Am Coll Surg 2015; King D et. al. J Trauma Acute Care Surg 2015) These environments include, for example, wilderness and mountain medicine, ski patrol, search & rescue, tactical law enforcement and EMS response to terrorist-related mass-casualty incidents. This call to action is in effort to implement these medical advances as developed by the Committee on Tactical Combat Casualty Care,

Department of Defense. The Committee on Trauma, American College of Surgeons endorses the TCCC medical guidelines.

**Program:** The Wilderness Medical Society (WMS) will host a 2-Day preconference (30-31 July), “**Tactical Combat Casualty Care: Transitioning Lessons Learned from the Battlefield to other Austere Environments**, at the World Congress on Wilderness Medicine, Telluride Conference Center, Telluride, CO (01 – 04 August 2016).

**Intended Audience:** civilian and military medical providers including trauma team members, physicians, nurses, PAs, paramedics, EMTs, wilderness medicine first responders, Search & Rescue personnel, Wilderness and EMS Medical Directors; Special Weapons & Tactic medics/physicians, and conventional and Special Operation Forces military medical department personnel desiring current TCCC overview or refresher training.

**Preconference Objectives:** 1) Explain the historical overview of Tactical Combat Casualty Care (TCCC); 2) Describe how the first set of TCCC guidelines (1997) transitioned into a governing TCCC committee that was tasked to maintain, develop and update the guidelines with evidence-based research; 3) Discuss the evolutions of the TCCC guidelines from 1997 to present; 4) Describe the key topic updates to the TCCC Guidelines; 5) Explain the ongoing TCCC quality improvements and measures of effectiveness; 6) Describe the key lessons learned with TCCC guidelines, how they have transitioned into some key civilian programs; and 7) Emphasize how the TCCC guidelines can be applied in any austere environment.

**Faculty:** These are military and civilian subject matter experts, clinicians, researchers and advisers to the Committee on Tactical Combat Casualty Care (TCCC). This premier faculty develops and advances medical practice guidelines as published in *the Prehospital Trauma Life Support* manual (Bartlett and Jones, 2014).

### **Agenda (~ 16 hrs. 2-Day Preconference)**

#### **Day 1 – (30 July 2016)**

Introduction – CAPT (Ret.) Brad Bennett PhD; 0750-0800

Why Tactical Combat Casualty Care (TCCC): Initial Guidelines – CAPT (Ret.) Frank Butler MD; 0800-0845

Transition to the Committee on Tactical Combat Casualty Care (CoTCCC) – CAPT (Ret.) Steve Giebner MD; 0845-0915

Break (20 min); Vendor Booths; 0915-0935

Extravascular hemorrhage Control: Tourniquet Devices – COL (Ret.) John Kragh MD; 0935-1020

Extravascular hemorrhage Control: Junctional Devices – COL (Ret.) Russ Kotwal MD; 1020-1105

Advances in Field Hemostatic Agents/Dressings: – CAPT (Ret) Brad Bennett PhD; 1105-1150

Working Lunch (Lunch Box); Vendor booths; 1150-1245

Role of Tranexamic Acid in Hemorrhage Control – Col Todd Rasmussen MD; 1245-1330

Emergent Airway Obstruction - LTC Robert Mabry MD; 1330-1415

Advances in Open Pneumothorax – CDR Lanny Littlejohn MD 1415-1500

Break (20 min) 1500-1520

Fluid Resuscitation: Yesterday and Today – CAPT (Ret.) Frank Butler MD; 1520-1605

Trauma Induced-Hypothermia – COL (Ret.) John Holcomb MD; 1605-1650

Roundtable Q&A; 1650-1725

Administrative Remarks – CAPT (Ret.) Brad Bennett PhD; 1725

Attendee social hour (vendor Area); 1730-1900

Evening Dinner, Telluride TBD – (Faculty Invite); 1915

## **Day 2 – (11 July 2016)**

Administrative Remarks– CAPT (Ret.) Brad Bennett PhD; 0755-0800

Keynote Lecture: Symbiotic Relationship Between Operational Military Medicine, Tactical Medicine and Wilderness Medicine – COL (Ret.) Craig Llewellyn MD; 0800-0845

Field Wound Care: Prophylactic Antibiotics - COL Clint Murray MD; 0845-0930

Break (20 min); Vendor; 0930-0950

Prehospital Burn Management - COL Booker King MD; 0950-1035

Acute Pain Control – COL Ian Wedmore MD; 1035-1120

Prehospital Traumatic Brain Injury – CAPT Jeff Timby MD; 1120-1205

Working Lunch (Lunch Box); Vendor; 1205-1300

Overview of Damage Control Resuscitation & Advances at the Point of Injury and Evacuation – COL (Ret.) John Holcomb MD; 1300-1345

Translation to Civilian Tactical Emergency Casualty Care: Hartford Consensus III - David Callaway MD; 1345-1430

Prolonged Care in the Austere Settings – COL Sean Keenan MD; 1430-1515

Break (15 min) 1515-1530

TCCC integration into the National Park Service – LTC Will Smith MD; 1530-1615

Roundtable Q&A - TCCC Panel members; 1615-1700

Special Recognition – CAPT Bennett & Co-Chairs; 1700-1715

Closing Comments – CAPT (Ret.) Bennett PhD; 1715

All attendees will receive lecture handouts of each presentation (PDFs) and on the conference thumb drive at registration in addition to the recent key TCCC guideline change papers (PDFs) for these topics.

A special edition W&EM journal issue is approved on for all pre-conference topics. Faculty lecture manuscripts 2000-2500 words; July 2016 due date; In late 2016 or early 2017 is the proposed journal release date

Continuing Education Credits (CME) and WMS Fellowship (FAWM) credits will be provided by the Wilderness Medical Society.

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