



TACTICAL COMBAT CASUALTY CARE COURSE

MODULE 3: CARE UNDER FIRE / THREAT



TCCC TIER 1 All Service Members

TCCC TIER 2 Combat Lifesaver TCCC TIER 3
Combat Medic/Corpsman

TCCC TIER 4
Combat Paramedic/Provider







TACTICAL COMBAT CASUALTY CARE ROLE-BASED TRAINING SPECTRUM

ROLE 1 CARE

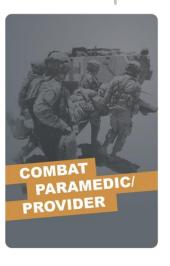
NONMEDICAL PERSONNEL





MEDICAL PERSONNEL





▼ YOU ARE HERE

STANDARDIZED JOINT CURRICULUM



Module 3: Care Under Fire / Threat



1 x TERMINAL LEARNING OBJECTIVE

- **Q4** Given a combat or noncombat scenario, perform Care Under Fire in accordance with CoTCCC Guidelines.
- **4.1** Describe the role of fire superiority and threat containment and the impact of tactical environment on Tactical Combat Casualty Care. (CLS T4:E14)
- **4.2** Describe the actions required before engaging with a casualty, to prevent harm or additional casualties in accordance with CoTCCC Guidelines. (ASM T3:E8)
- 4.3 Identify appropriate actions and priorities to treat and move casualties in Care Under Fire. (CLS T4:E16)
- **4.4** Identify the importance of early application of limb tourniquets to control life-threatening bleeding. (CLS T4:E17)
- **4.5** Demonstrate one-handed tourniquet application to self in Care Under Fire. (CLS T4:E18)
- **4.6** Demonstrate two-handed tourniquet application to a casualty in Care Under Fire. (CLS T4:E19)
- **4.7** Describe the principles, advantages, and disadvantages of one-person drag/carry or two-person drag/carry in Care Under Fire. (CLS T4:E20)
- **4.8** Demonstrate the one-person drags and carries of a casualty in Care Under Fire. (CLS T4:E21)
- **4.9** Demonstrate the two-person drags and carries of a casualty in Care Under Fire. (CLS T4:E22)

9 x ENABLING LEARNING OBJECTIVES









Three PHASES of TCCC

CARE UNDER'
FIRE (CUF)
/ THREAT

RETURN FIRE AND TAKE COVER

TACTICAL FIELD CARE (TFC)

WORK UNDER COVER AND CONCEALMENT

TACTICAL EVACUATION CARE (TACEVAC)

MORE DELIBERATE
ASSESSMENT AND PREEVACUATION PROCEDURES







PHASE 1: CARE UNDER FIRE / THREAT

RETURN FIRE AND TAKE COVER



NEVER ATTEMPT to rescue a casualty until hostile fire is **suppressed**

<u>^</u>

Using available resources, **ensure scene safety**

DIRECT CASUALTY TO REMAIN ENGAGED

HAVE CASUALTY
MOVE TO COVER
AND APPLY SELF-AID
(if able)

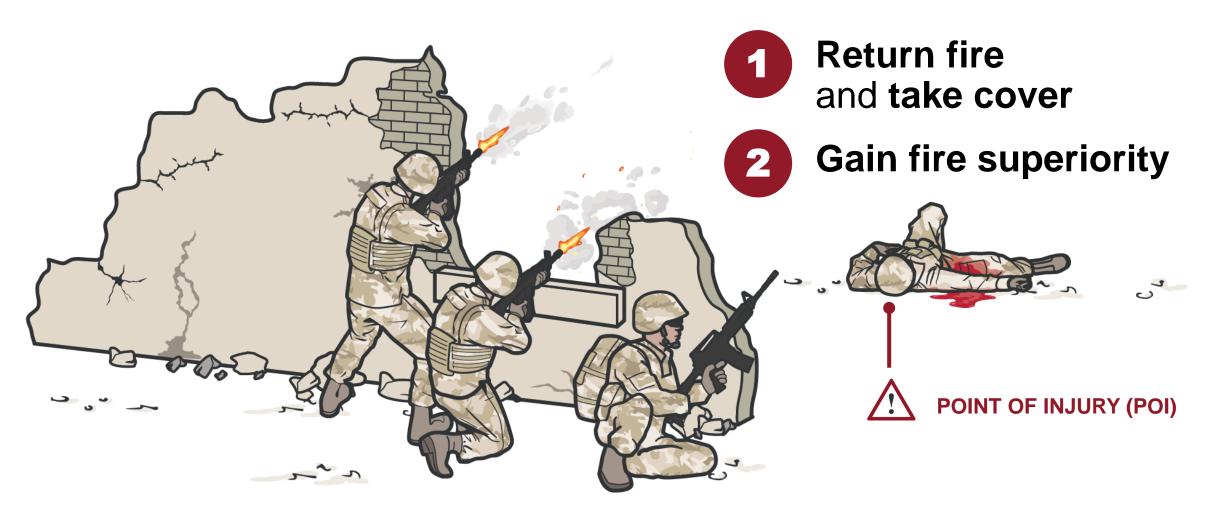
KEEP CASUALTY FROM SUSTAINING ADDITIONAL WOUNDS STOP LIFE-THREATENING EXTERNAL HEMORRAGE (if tactically feasible)

HAVE UNIT
PERSONNEL MOVE
CASUALTY TO
COVER
(if casualty is unable to move)





ROLE OF FIRE SUPERIORITY THREAT CONTAINMENT







FIRE SUPERIORITY CASUALTY CARE PRINCIPLES



ORDER OF ACTIONS will be dictated by the situation

SCENE SAFETY

CASUALTY MOVEMENT direct casualty to move to cover and apply self-aid

Stop LIFE-THREATENING EXTERNAL HEMORRHAGE

PROPER COMMUNICATION with casualty and other personnel in the immediate area





CARE UNDER FIRE / THREAT TREATMENT PRIORITIES AND ACTIONS

- CASUALTY EXTRACTION
- Apply tourniquet to control LIFE-THREATENING EXTERNAL HEMORRAGE
- CASUALTY MOVEMENT
 Drag or carry based on tactical situation







CARE UNDER FIRE / THREAT TREATMENT PRIORITIES AND ACTIONS (CONT.)

CASUALTIES SHOULD BE EXTRACTED AND MOVED

to places of relative safety



DO WHAT IS NECESSARY TO STOP THE BURNING PROCESS!



STOP LIFE-THREATENING EXTERNAL HEMORRAGE (if tactically feasible)





IMPORTANT CONSIDERATION:

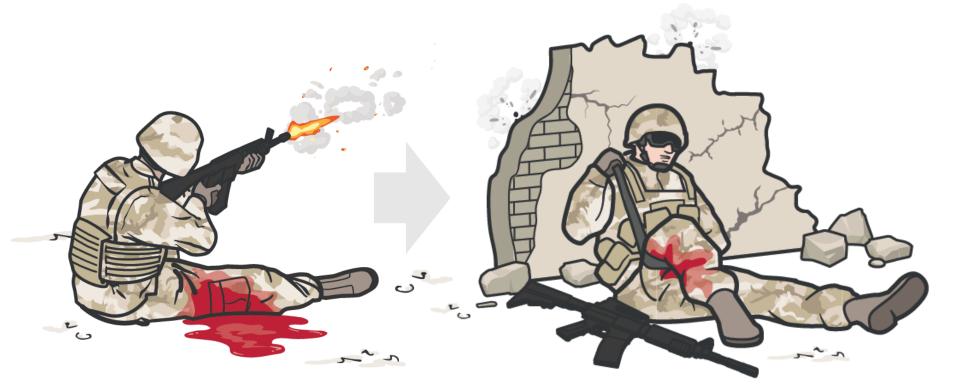
Continuously assess risks and make a plan before moving a casualty







CASUALTY SELF-AID WHEN ABLE TO MOVE



Direct casualty to return fire, **if able**

Have casualty move to cover and apply self-aid

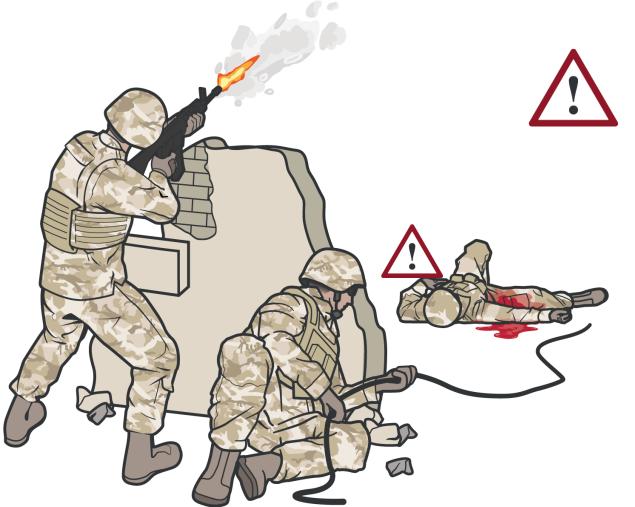


For life-threatening bleeding, place a tourniquet (TQ)
"high and tight" above the wound





IF CASUALTY IS UNABLE TO MOVE



IF CASUALTY IS UNABLE TO MOVE

to cover, when tactically feasible (ideally, fire has been SUPPRESSED and fire superiority has been gained), devise and execute a plan to get them out of the kill zone

Consider using items such as rope and dragging straps to avoid making responders leave cover to care for the casualty





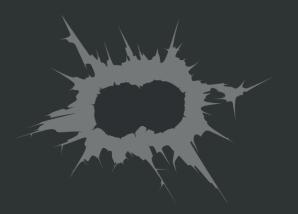






M ASSIVE BLEEDING

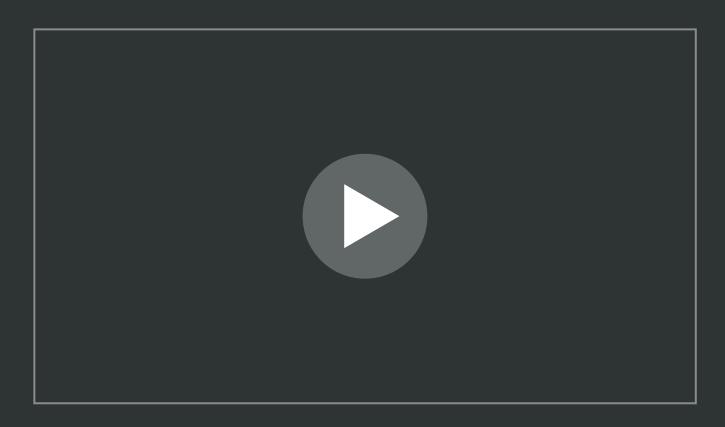
in CARE UNDER FIRE







CARE UNDER FIRE OVERVIEW



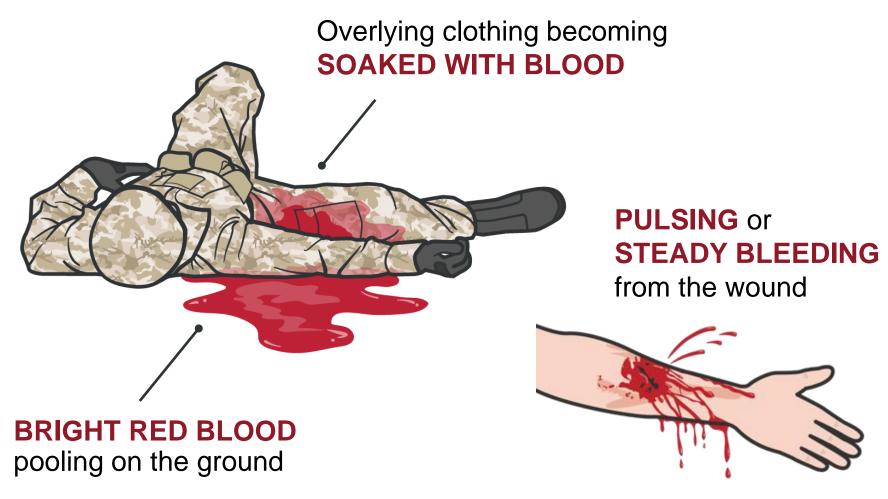




IDENTIFY LIFE-THREATENING BLEEDING VISUAL BLOOD SWEEP



Traumatic **AMPUTATION** of the **arm** or **leg**







TIME TO BLEED OUT

How long does it take to **BLEED TO DEATH** from a **MAJOR ARTERY**?

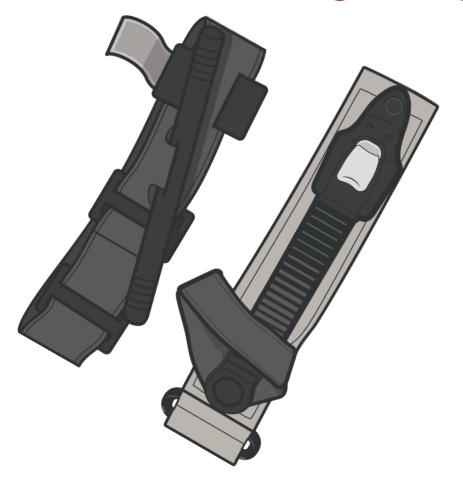








TOURNIQUET APPLICATION CRITICAL POINTS



- TQ used to control massive or lifethreatening hemorrhage on extremities
- TQs are **effective** and can be **applied quickly**
- TQs are the most important lifesaving item in the JFAK and should be kept near the top of your Aid Bag
- Always use the casualty's TQ first







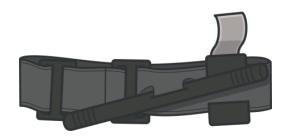
KNOW WHERE TO FIND A TOURNIQUET

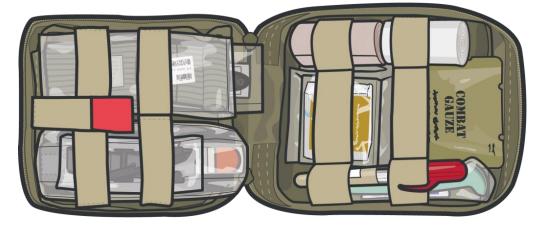
QUICK ACCESS IS KEY!

DON'T leave your TQ at the bottom of your pack!

CASUALTY'S JFAK FIRST

- When helping a casualty, use the TQ in the casualty's JFAK first
- If the casualty is **missing** their **TQ**, then use the **next available option**
- As a CMC, you're expected to have immediate access to medical equipment





INDIVIDUAL

Joint First Aid Kit (JFAK)





SELF-APPLICATION, ONE-HANDED TOURNIQUET



ONE-HANDED APPLICATION

The one-handed application is normally used to apply a *CoTCCC-recommended* windlass or ratchet TQ to the **upper extremity**

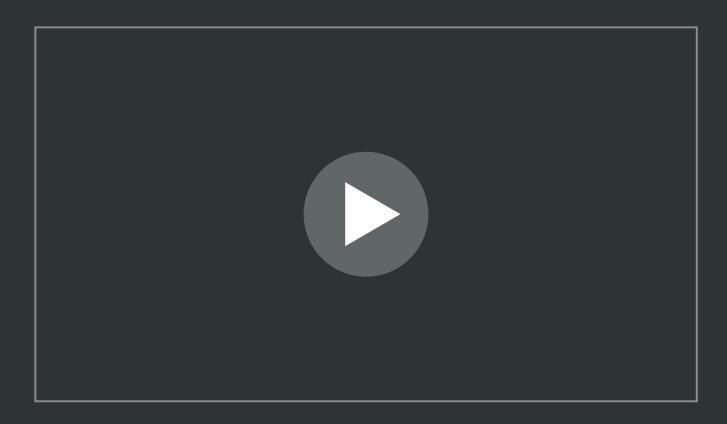
WINDLASS and RATCHET TQs

- Use the windlass or ratchet TQ from the JFAK
- They are effective and can be applied quickly





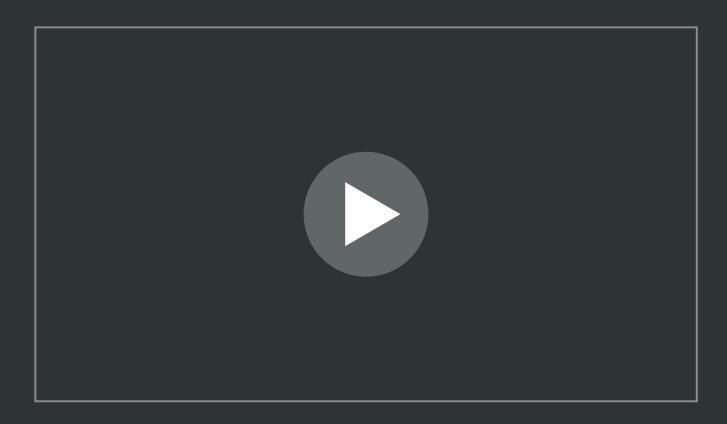
ONE-HANDED WINDLASS TOURNIQUET APPLICATION







ONE-HANDED RATCHET TOURNIQUET APPLICATION







CASUALTY SUPPORT WHEN UNRESPONSIVE OR UNABLE TO MOVE



EXERCISE CAUTION in approaching the casualty to avoid creating additional casualties

Conduct a **VISUAL BLOOD SWEEP**, looking for major bleeding

If extremity bleeding is observed, apply a hasty "high and tight" TQ using the two-handed method



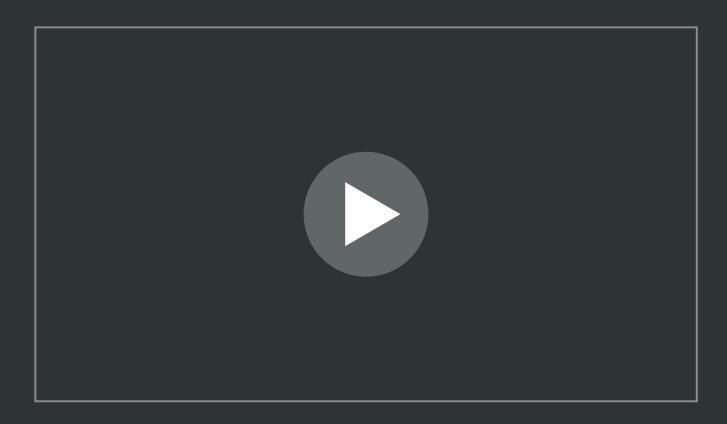
IMPORTANT CONSIDERATION:

When helping a casualty, use the TQ in the casualty's JFAK first





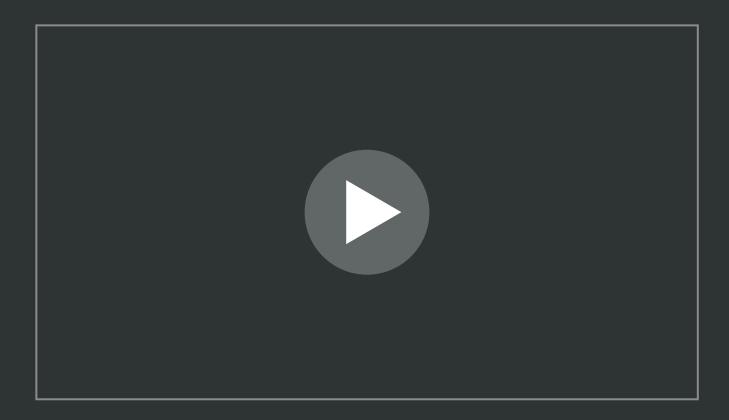
TWO-HANDED WINDLASS TOURNIQUET APPLICATION







TWO-HANDED RATCHET TOURNIQUET APPLICATION







SKILL STATION

CUF Tourniquet Skills



One-handed (windlass) TQ Application in CUF



One-handed (ratchet) TQ Application in CUF



Two-handed (windlass) TQ Application in CUF



Two-handed (ratchet) TQ Application in CUF





DRAGS AND CARRIES CRITICAL OBJECTIVES

If you must move in CUF, quickly develop a casualty movement rescue plan

From the point of injury, you must move the casualty to the closest position of cover

Once bleeding is controlled, move the casualty to cover using a one- or two-person drag/carry

When moving casualties, spinal injuries are not a priority during CUF







ONE-PERSON DRAGS AND CARRIES



KIT OR ARM DRAG

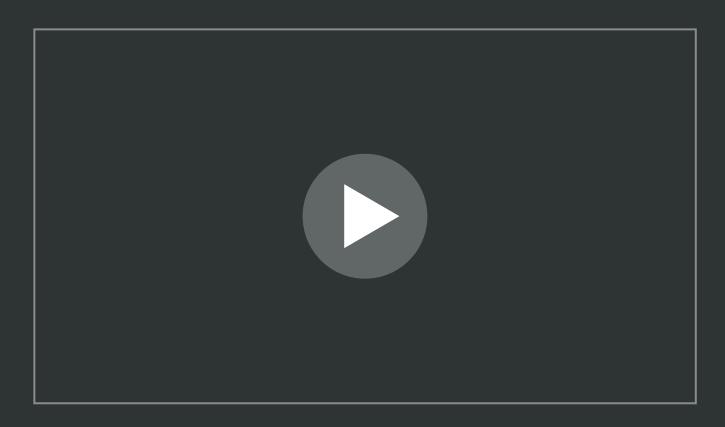
Grab the **complete kit** or use the body armor **drag handle**, no additional equipment is required







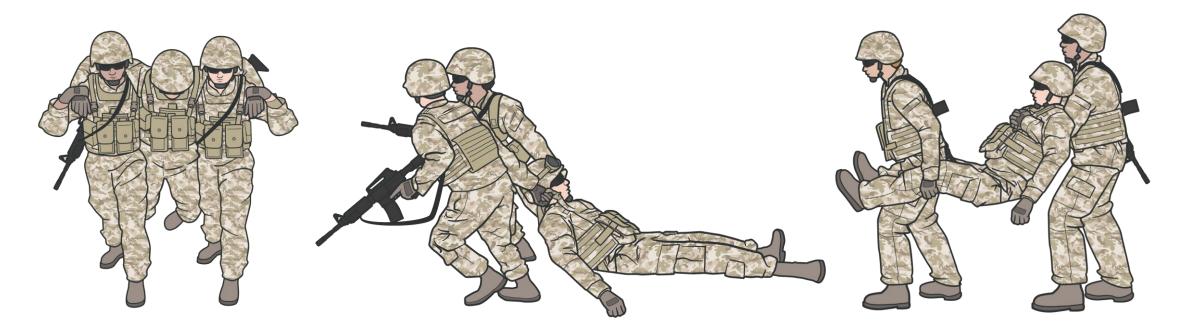
ONE PERSON CASUALTY DRAG/CARRY







TWO-PERSON DRAGS AND CARRIES



TWO-PERSON SUPPORTING CARRY

Can be used in transporting both conscious and unconscious casualties

KIT OR ARM DRAG

Can cause injury to either the rescuer or casualty; keep safety in mind

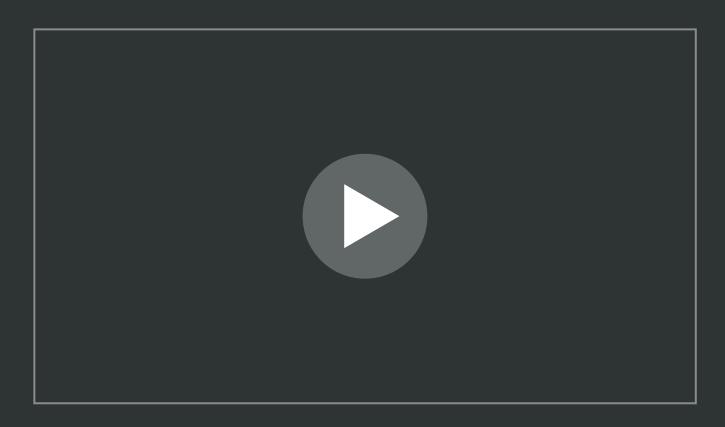
FORE AND AFT CARRY

Exposes both rescuers and casualty to hostile fire





TWO PERSON CASUALTY DRAG/CARRY







SKILL STATION Drag/Carry Skills



One-person Drag/Carry



Two-person Drag/Carry







SUMMARY

- What is **CARE UNDER FIRE/THREAT**?
- The importance of FIRE SUPERIORITY
- Casualty TREATMENT PRIORITIES in CUF
- MASSIVE HEMORRHAGE CONTROL in CUF
- CASUALTY MOVEMENT in CUF, including the advantages and disadvantages of one- and two-person drag/carry methods





CHECK ON LEARNING



What is CUF?



What are the signs of life-threatening bleeding?



How long does it take to bleed to death from a complete femoral artery and vein disruption?



What are the advantages and disadvantages of one-person drags?



What are the advantages and disadvantages of two-person carries?





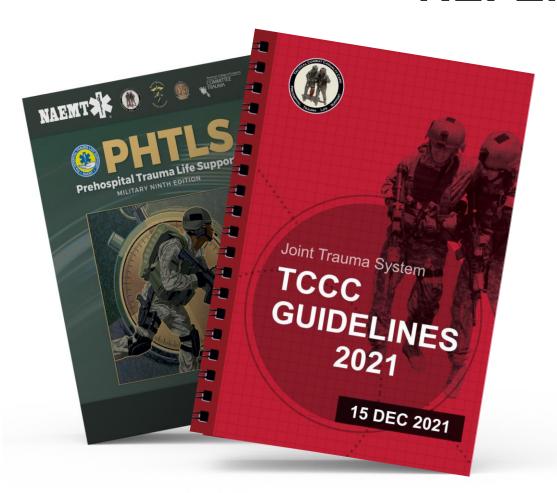








REFERENCES



TCCC: Guidelines

by JTS/CoTCCC

These guidelines, updated regularly, are the result of decisions made by CoTCCC in exploring evidence-based research on best practices.

PHTLS: Military Edition

by NAEMT

Prehospital Trauma Life Support (PHTLS), Military Edition, teaches and reinforces the principles of rapidly assessing a trauma patient using an orderly approach.