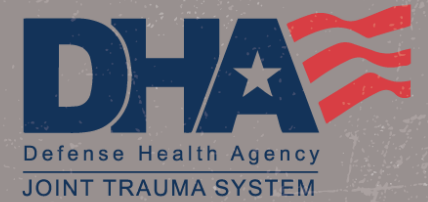




**COMBAT MEDIC/
CORPSMAN**



TACTICAL COMBAT CASUALTY CARE COURSE

MODULE 02:
MEDICAL EQUIPMENT



Committee on
Tactical Combat
Casualty Care
(CoTCCC)

TCCC TIER 1
All Service Members

TCCC TIER 2
Combat Lifesaver

TCCC TIER 3
Combat Medic/Corpsman

TCCC TIER 4
Combat Paramedic/Provider

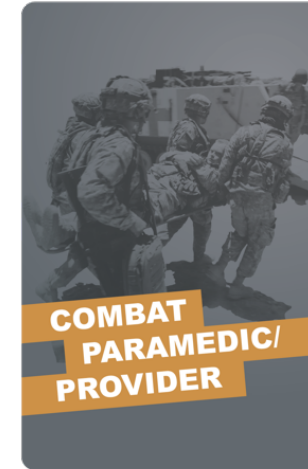
TACTICAL COMBAT CASUALTY CARE ROLE-BASED TRAINING SPECTRUM

ROLE 1 CARE

NONMEDICAL
PERSONNEL



MEDICAL
PERSONNEL



◀ **YOU ARE HERE**

STANDARDIZED JOINT CURRICULUM

1 x **TERMINAL LEARNING OBJECTIVES**

03 Describe the use of individual medical equipment components in accordance with CoTCCC Guidelines.

- **3.1** Describe the use of a first aid kit in accordance with Service policy. (ASM T2)
- **3.2** Identify the contents of an individual Joint First Aid Kit (JFAK), and/or other Service-specific first aid kits. (ASM T2:E6)
- **3.3** Describe the general maintenance and resupply procedures for trauma materials in a first aid kit in accordance with Service guidelines. (ASM T2:E7)
- **3.4** Identify the contents of a combat lifesaver kit and/or other Service-specific first aid kits. (CLS T3:E12)
- **3.5** Describe the use of components of a combat lifesaver kit in accordance with Service policy. (CLS T3:E13)
- **3.6** Identify the contents of a medic/corpsman aid bag and/or other Service-specific first aid kits.
- **3.7** Describe the use of a medic/corpsman aid bag, in accordance with Service policy.

7 x **ENABLING LEARNING OBJECTIVES**

FIRST AID KITS

WHAT DO I TAKE?



INDIVIDUAL
Joint First Aid Kit (JFAK)



COMBAT
LIFESAVER BAG
CLS Bag



Unit Standard Operating Procedures (SOPs) and individual responder capabilities/scope of care will determine what is carried in the First Aid Kits.

MEDICAL SUPPLIES

YOU WILL NEED TO PROVIDE AID AND SAVE LIVES



INDIVIDUAL
Joint First Aid Kit (JFAK)



COMBAT
LIFESAVER BAG
CLS Bag



**COMBAT MEDIC/
CORPSMAN AID BAG**
CMC Aid Bag

JFAK CONTENT AND CAPABILITIES



**INDIVIDUAL
JFAK**

Items included in this kit will be able to treat the following:



Tourniquet, hemostatic gauze, and pressure bandages



Combat wound medication pack



Nasopharyngeal airway



Combat wound medication pack



Chest seal and NDC 10-14 Gauge 3.25" Needle Catheter (Service Specific)



Gauze and rigid eye shield



Other:
DD Form 1380 and a marker



ALWAYS use the **casualty's** JFAK first

COMBAT LIFESAVER BAG CONTENT AND CAPABILITIES

Items included in this kit will be able to treat the following:



BUDDY AID
Combat Lifesaver Bag

- M** Tourniquets, hemostatic gauze, and pressure bandages
- A** Nasopharyngeal airway
- R** Vented Chest Seal, Bag Valve Mask, and NDC 10-14 Gauge 3.25" Needle Catheter
- C** Gauze and Elastic bandage
- H** Active/Passive Hypothermia Kits/Blankets and MACE2
- P** Combat wound medication pack
- A** Combat wound medication pack
- W** Gauze and rigid eye shield
- S** Splinting material, cravats, and elastic wraps
- Other:** DD Form 1380 and MEDEVAC Card

COMBAT MEDIC/CORPSMAN CONTENT AND CAPABILITIES



ADVANCED TCCC CARE *Medic/Corpsman Aid Bag*



Stock this bag in accordance with your **SOPs/Protocols**

Items included in this kit will be able to treat the following:

- M** Tourniquet, hemostatic gauze, pressure bandage, junctional tourniquet, X-stat, and wound closure device
- A** Nasopharyngeal airway, extraglottic airway, cricothyroidotomy kits, and suction devices
- R** Bag Valve Mask, vented chest seals, NDC 10-14 Gauge 3.25” Needle Catheter
- C** Pelvic compression devices, Intravenous (IV) and Intraosseous (IO) access kits, IV fluids, EldonCard™, tranexamic acid (TXA), blood products, and Calcium
- H** Active/Passive Hypothermia Kits/Blankets, IV fluid warmers, and MACE2

COMBAT MEDIC/CORPSMAN CONTENT AND CAPABILITIES (cont.)



ADVANCED TCCC CARE *Medic/Corpsman Aid Bag*

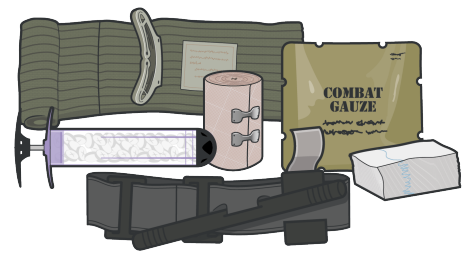


Stock this bag in accordance with your **SOP/Protocols**

Items included in this kit will be able to treat the following:

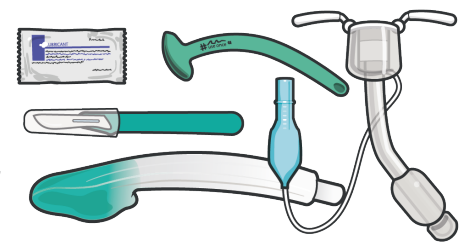
- P** Pain medications, extra combat wound medication packs
- A** Antibiotics, extra combat wound medication packs
- W** Gauze, elastic wrap, rigid eye shields
- S** Malleable splints, rigid splints, cravats, and elastic wraps

Other: DD Form 1380, MEDEVAC Card, Mission/Unit specific equipment



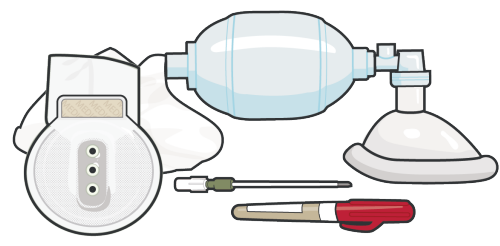
M

**MASSIVE
HEMORRHAGE**



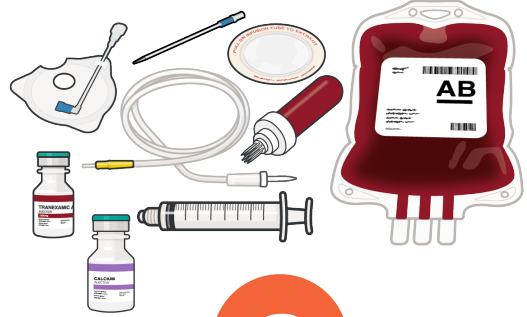
A

AIRWAY



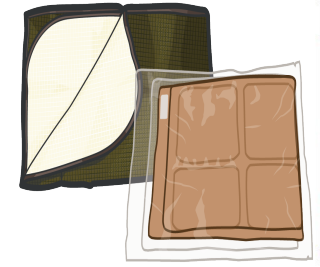
R

RESPIRATIONS



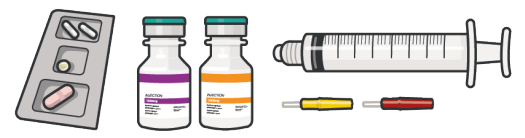
C

CIRCULATION



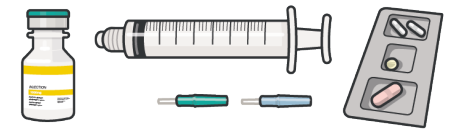
H

**HYPOTHERMIA/
HEAD INJURY**



P

PAIN



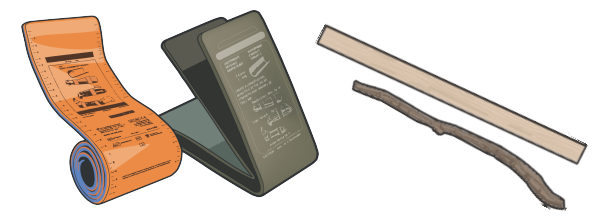
A

ANTIBIOTICS



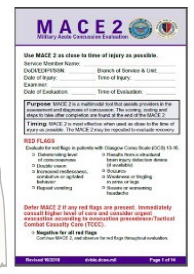
W

WOUNDS

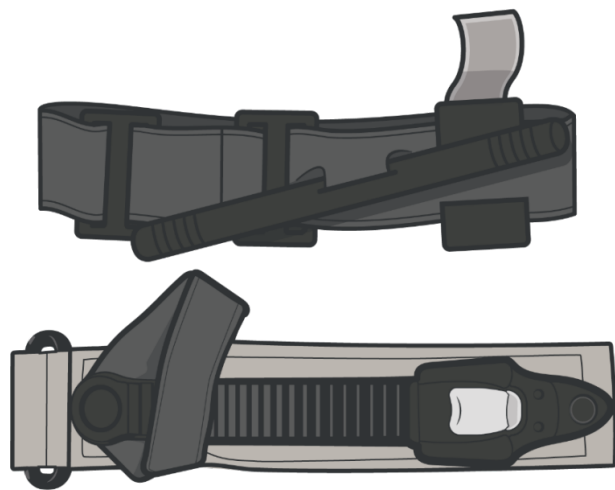


S

SPLINTING



M MASSIVE HEMORRHAGE EQUIPMENT



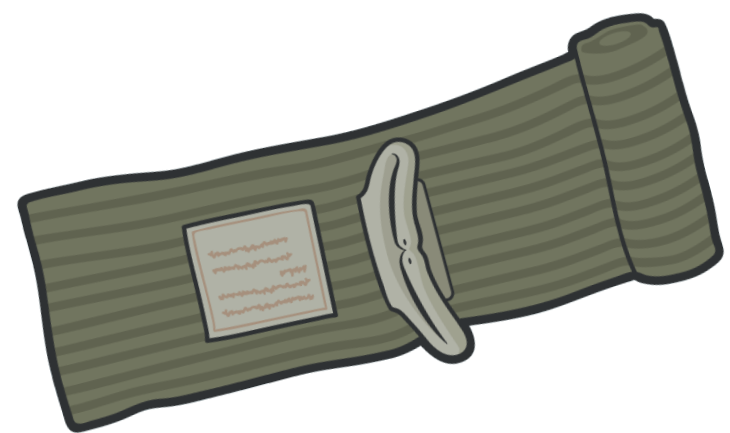
TOURNIQUET

CoTCCC-recommended and is used to control massive or severe hemorrhage of an extremity



HEMOSTATIC GAUZE

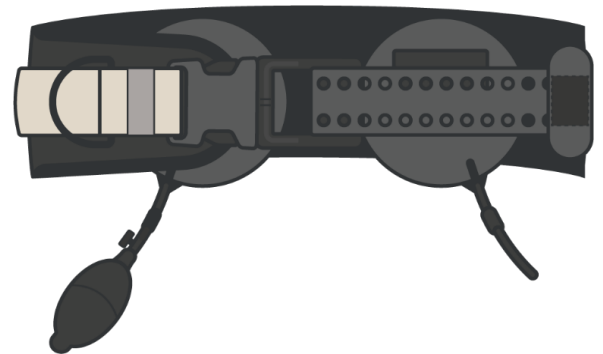
CoTCCC-recommended gauze, contains a chemical that bonds to another chemical in blood and causes clots to form at the source of bleeding



PRESSURE BANDAGE

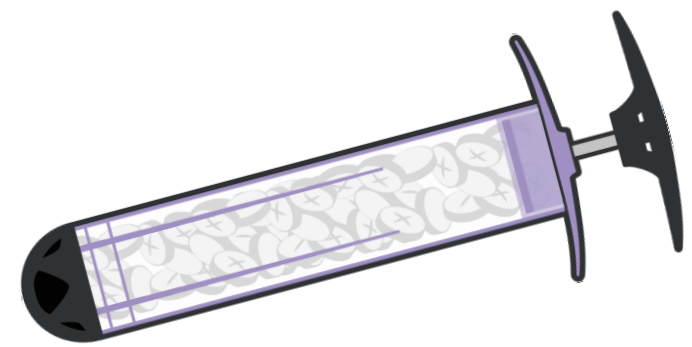
Elastic bandage used as a **pressure** dressing and/or **standard** dressing

M MASSIVE HEMORRHAGE EQUIPMENT *(cont.)*



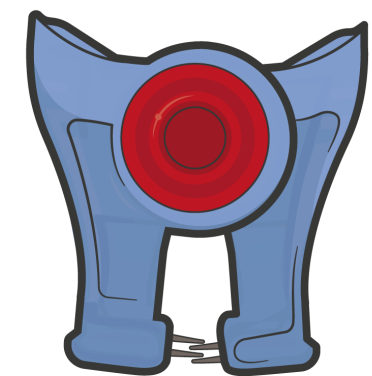
JUNCTIONAL TOURNIQUET

Designed to stop massive hemorrhage from large vessel injuries of the groin or axilla that are too proximal for a limb tourniquet to be used effectively



XSTAT 30 (LARGE) XSTAT 12 (SMALL)

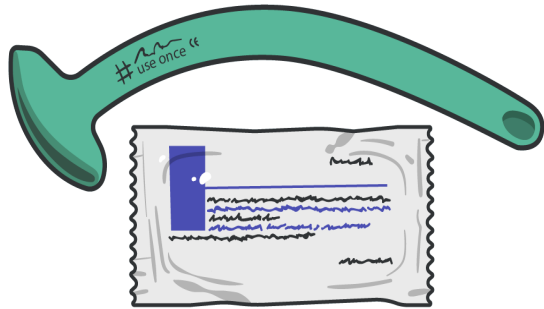
Designed to inject an expandable agent into the wound cavity to create an internal source of pressure at the bleeding site



WOUND CLOSURE DEVICE

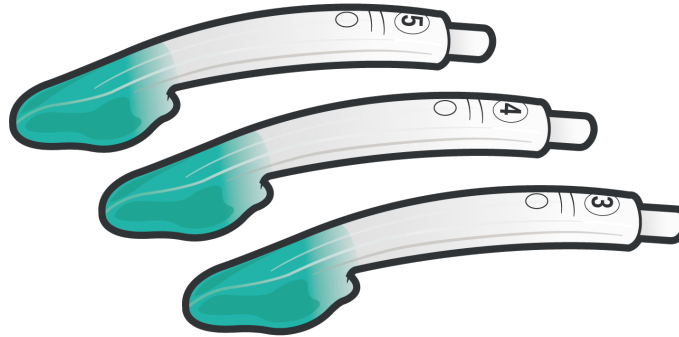
The device seals the edges of a wound closed to mitigate further blood loss until the wound can be surgically repaired

A AIRWAY CONTROL EQUIPMENT



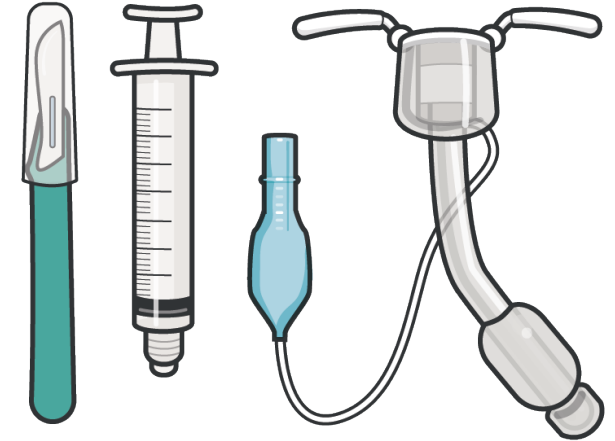
NASOPHARYNGEAL AIRWAY (NPA)

Nonsterile rubber tube-shaped device inserted into the casualty's nostril



EXTRAGLOTTIC AIRWAY (EGA)

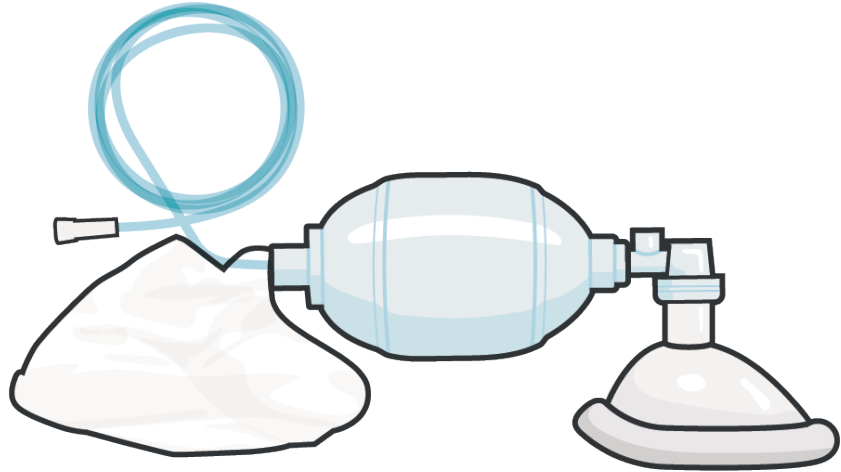
Used to establish an airway for oxygenation and ventilation without entering the trachea



CRICOTHYROIDOTOMY KIT

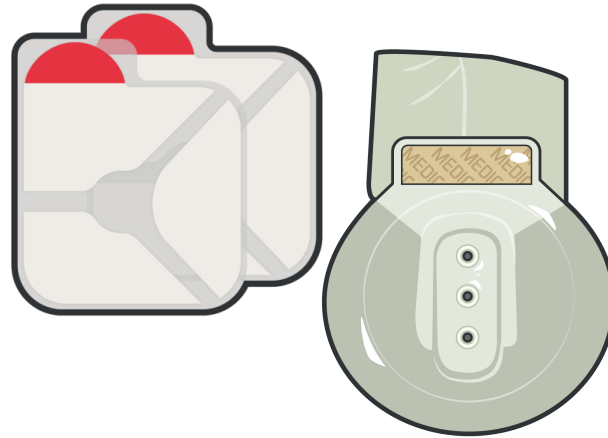
An advanced surgical airway used when other airway adjuncts have failed, as well as an airway obstruction or pending airway obstruction

R RESPIRATION SUPPORT EQUIPMENT



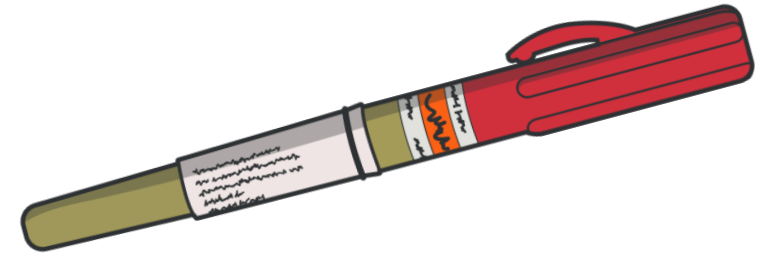
BAG VALVE MASK (BVM)

Provides positive pressure ventilations to a patient who is inadequately breathing or not breathing at all



VENTED CHEST SEAL

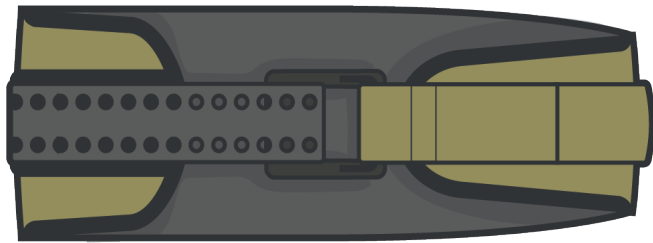
Vented and adhesive chest seal for treating **penetrating chest wounds**



10-14 GAUGE 3.25" NEEDLE CATHETER

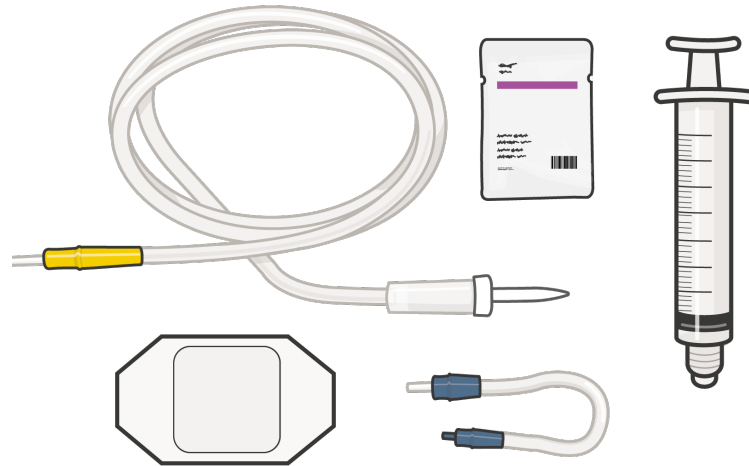
Catheter-over-needle device inserted into the chest to **treat tension pneumothorax**

C CIRCULATION *(cont.)*



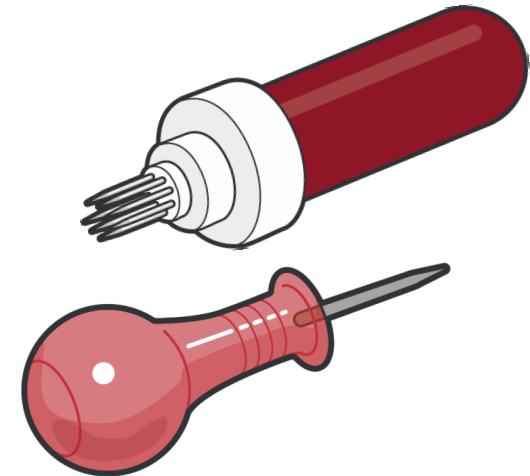
PELVIC COMPRESSION DEVICE

Designed to compress a pelvis fracture, providing stability and preventing ongoing hemorrhage



INTRAVENOUS (IV) ACCESS KIT

The necessary supplies to establish intravenous access



INTRAOSSIOUS (IO) ACCESS EQUIPMENT

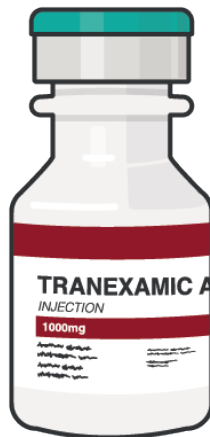
Equipment necessary to establish sternal, humeral, or tibial intraosseous access

C CIRCULATION

Anti-A		Anti-B		Anti-C		Anti-D	
Name				Address			
Born				Signature			
ABO		Rhesus (D)		Date			

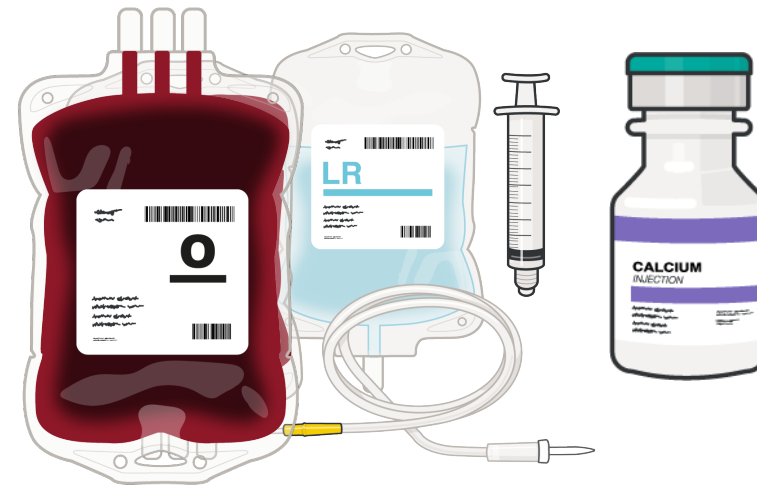
ELDONCARD™

A card used to determine blood type



TXA

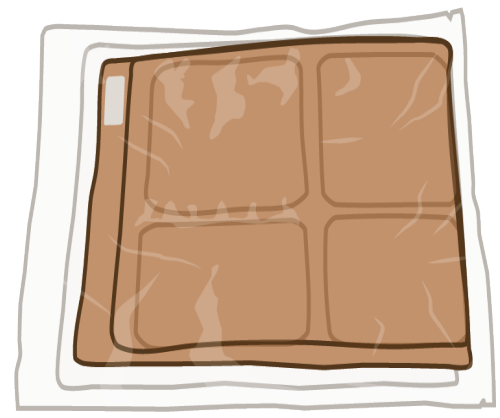
Tranexamic acid – to help the casualty's blood clotting process



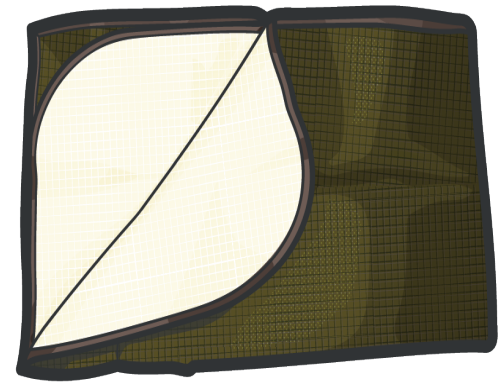
BLOOD PRODUCTS, IV FLUIDS, and Calcium

Blood products and fluids – to replace casualty losses due to hemorrhage

H HYPOTHERMIA AND HEAD INJURY



ACTIVE



PASSIVE

MACE 2
Military Acute Concussion Evaluation

Use MACE 2 as close to time of injury as possible.

Service Member Name: _____
 DoD/EDIPI/SSN: _____ Branch of Service & Unit: _____
 Date of Injury: _____ Time of Injury: _____
 Examiner: _____
 Date of Evaluation: _____ Time of Evaluation: _____

Purpose: MACE 2 is a multimodal tool that assists providers in the assessment and diagnosis of concussion. The scoring, coding and steps to take after completion are found at the end of the MACE 2.

Timing: MACE 2 is most effective when used as close to the time of injury as possible. The MACE 2 may be repeated to evaluate recovery.

RED FLAGS
 Evaluate for red flags in patients with Glasgow Coma Scale (GCS) 13-15.

- Deteriorating level of consciousness
- Double vision
- Increased restlessness, combative or agitated behavior
- Repeat vomiting
- Results from a structural brain injury detection device (if available)
- Seizures
- Weakness or tingling in arms or legs
- Severe or worsening headache

Defer MACE 2 if any red flags are present. Immediately consult higher level of care and consider urgent evacuation according to evacuation precedence/Tactical Combat Casualty Care (TCCC).

- Negative for all red flags**
Continue MACE 2, and observe for red flags throughout evaluation.

Revised 10/2018 dvbic.dcoe.mil Page 1 of 14

ACTIVE/PASSIVE HYPOTHERMIA KITS/BLANKETS

Used to prevent and manage hypothermia

MILITARY ACUTE CONCUSSION EVALUATION (MACE 2)

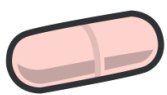
Used to identify possible traumatic brain injury (TBI)



NOTE: DD Form 1380 is also used in AVPU (alert, verbal, pain, unresponsive) assessment as part of head injury documentation

P PAIN and A ANTIBIOTIC MEDICATIONS

COMBAT WOUND PACK



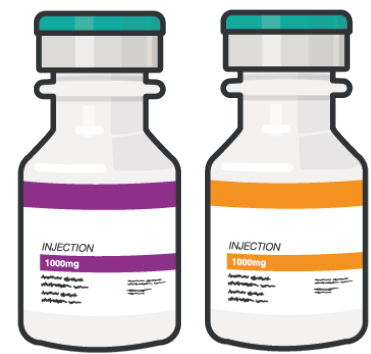
Moxifloxacin
400 mg tablet
once daily



Meloxicam
15 mg tablet
once daily



Acetaminophen
x2 500mg tablet
every 8 hours



PAIN MEDICATIONS

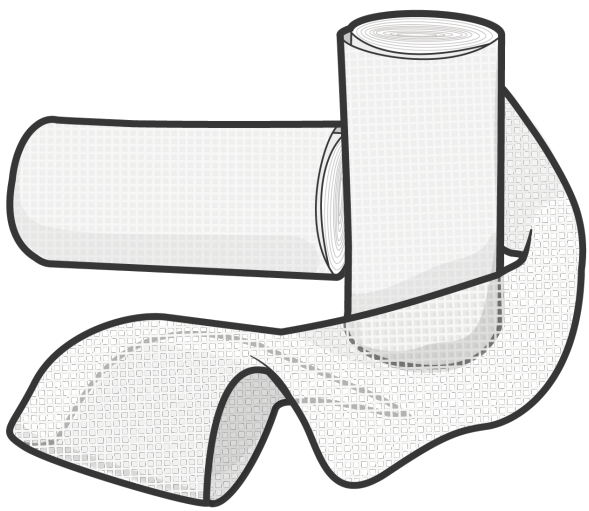
For pain not controlled by the CWMP, other pain medications that can be administered by many different routes are available.



ANTIBIOTICS

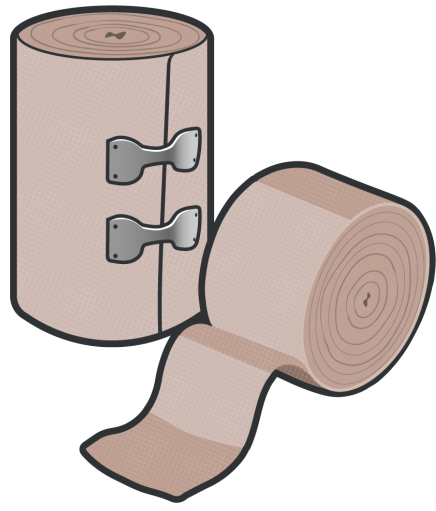
If time and situation allow, IV antibiotics can be administered, if indicated.

W WOUND MANAGEMENT



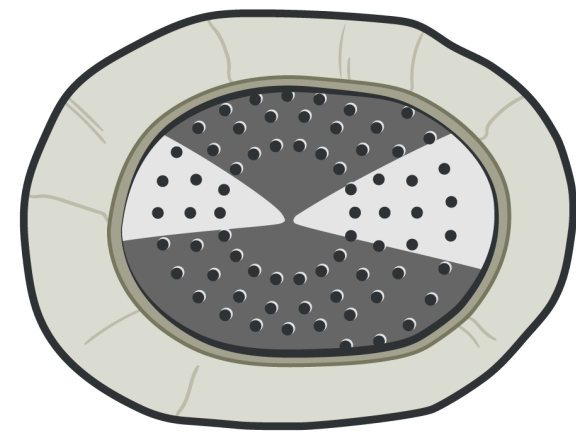
GAUZE

Gauze rolls used to **stop minor bleeding** or as **bulky material** for wound packing



ELASTIC WRAP

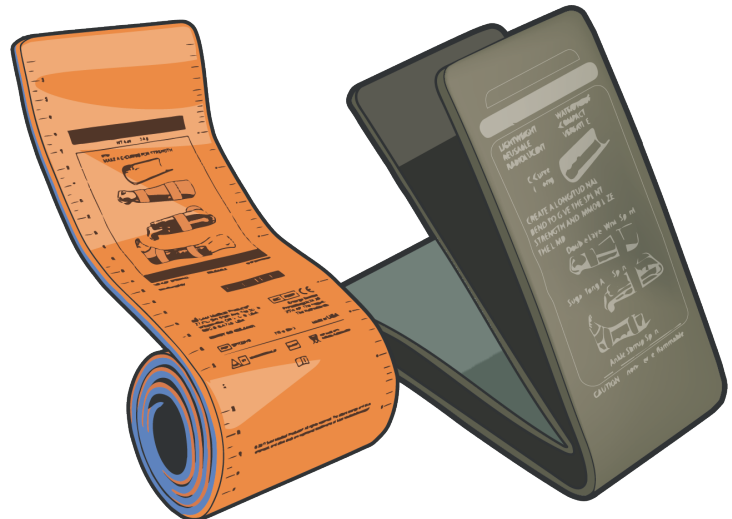
Stretchable cloth like wrap used to hold medical different types of medical intervention equipment in place



RIGID EYE SHIELD

A shield that provides domed **protection** of the **eye** **WITHOUT** applying pressure

S SPLINTS



MALLEABLE SPLINTING

Semi-rigid material used to immobilize an injured limb



RIGID SPLINTING

Rigid splinting material that stabilizes the limb and protects the injury

DOCUMENTATION/MEDEVAC

FRONT

BACK

TACTICAL COMBAT CASUALTY CARE (TCCC) CARD

BATTLE ROSTER #: _____

EVAC: Urgent Priority Routine

NAME (Last, First): _____ LAST 4: _____

GENDER: M F DATE (DD-MMM-YY): _____ TIME: _____

SERVICE: _____ UNIT: _____ ALLERGIES: _____

Mechanism of Injury: (X all that apply)

Artillery Blunt Burn Fall Grenade GSW IED

Landmine MVC RPG Other: _____

Injury: (Mark injuries with an X)

TQ: R Arm TYPE: _____ TIME: _____

TQ: L Arm TYPE: _____ TIME: _____

TQ: R Leg TYPE: _____ TIME: _____

TQ: L Leg TYPE: _____ TIME: _____

Signs & Symptoms: (Fill in the blank)

	Time			
Pulse (Rate & Location)				
Blood Pressure	/	/	/	/
Respiratory Rate				
Pulse Ox % O2 Sat				
AVPU				
Pain Scale (0-10)				

DD Form 1380, JUN 2014 TCCC CARD

BATTLE ROSTER #: _____

EVAC: Urgent Priority Routine

Treatments: (X all that apply, and fill in the blank) Type

C: TQ- Extremity Junctional Truncal _____

Dressing- Hemostatic Pressure Other _____

A: Intact NPA CRIC ET-Tube SGA _____

B: O2 Needle-D Chest-Tube Chest-Seal _____

C:

	Name	Volume	Route	Time
Fluid				
Blood Product				

MEDS:

	Name	Dose	Route	Time
Analgesic (e.g., Ketamine, Fentanyl, Morphine)				
Antibiotic (e.g., Moxifloxacin, Ertapenem)				
Other (e.g., TXA)				

OTHER: Combat-Pill-Pack Eye-Shield (R L) Splint

Hypothermia-Prevention Type: _____


NOTES:

FIRST RESPONDER NAME (Last, First): _____ LAST 4: _____

DD Form 1380, JUN 2014 (Back) TCCC CARD

MEDEVAC REQUEST FORM

GTA 08-01-004

LINE	ITEM	EVACUATION REQUEST MESSAGE
1	Location of Pickup Site.	
2	Radio Frequ., Call Sign, & Suffix.	
3	No. of Patients by Precedence.	
4	Special Equipment Required.	
5	Number of Patients by Type.	
6	Security of Pickup Site (Wartime).	
6	Number and Type of Wound, Injury, or Illness (Peacetime).	
7	Method of Marking Pickup Site.	
8	Patient Nationality and Status.	
9	NBC Contamination (Wartime).	
9	Terrain Description (Peacetime).	

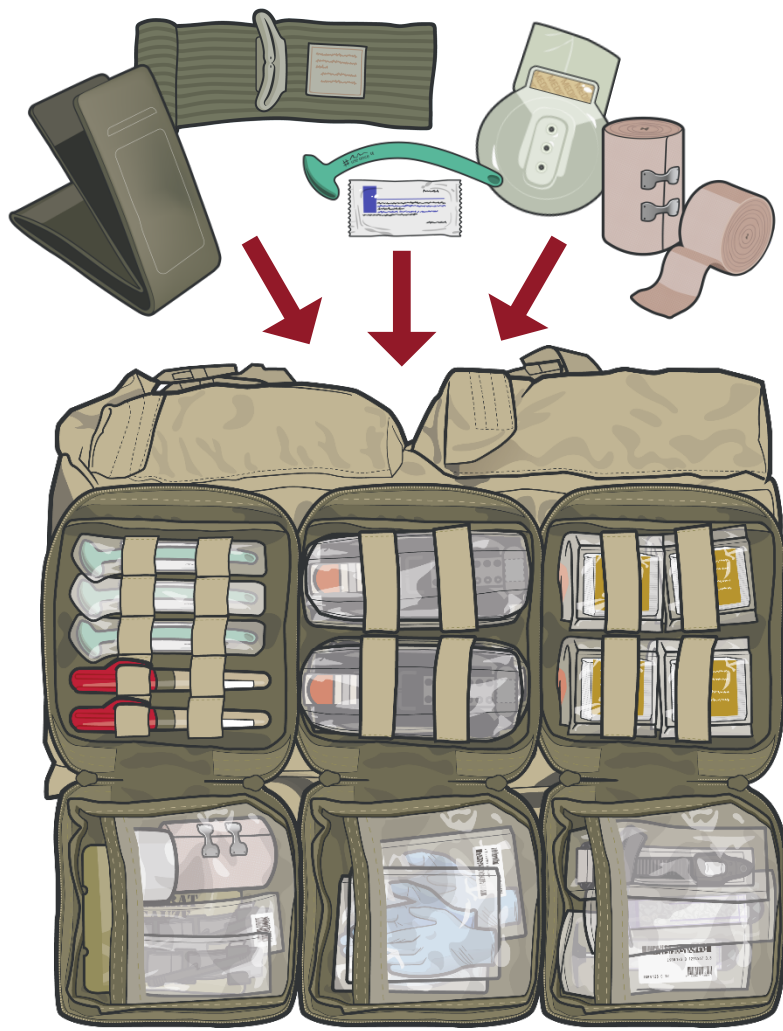
This publication contains technical or operational information that is for official Government use only. Distribution is limited to U.S. Government agencies. Requests from outside U.S. Government agencies for release of this publication under the Freedom of Information Act or the Foreign Military Sales Program must be made to Commander USATSC, ATTN: GTA Program Manager ATIC-ITST-T, Fort Eustis, VA 23064-5166. DESTRUCTION NOTICE: Destroy by any method that will prevent disclosure of contents or reconstruction of document.

AUG 2002 (This supersedes GTA 08-01-004 MAY 1997) DISTRIBUTION: US ARMY TRAINING SUPPORT CENTERS (TSCs) HEADQUARTERS, DEPARTMENT OF THE ARMY, ATTN: ATIC-ITST-T, GTA Program, Fort Eustis, VA 23604-5166

DD Form 1380 TCCC CARD
 DoD-approved standard for documenting ALL assessment and treatment provided to casualties before **evacuation** or handoff to other **medical personnel**

9-LINE MEDEVAC (ARMY Example)
 Call procedure that is divided into nine lines of information for evacuation crews

MAINTENANCE AND RESUPPLY



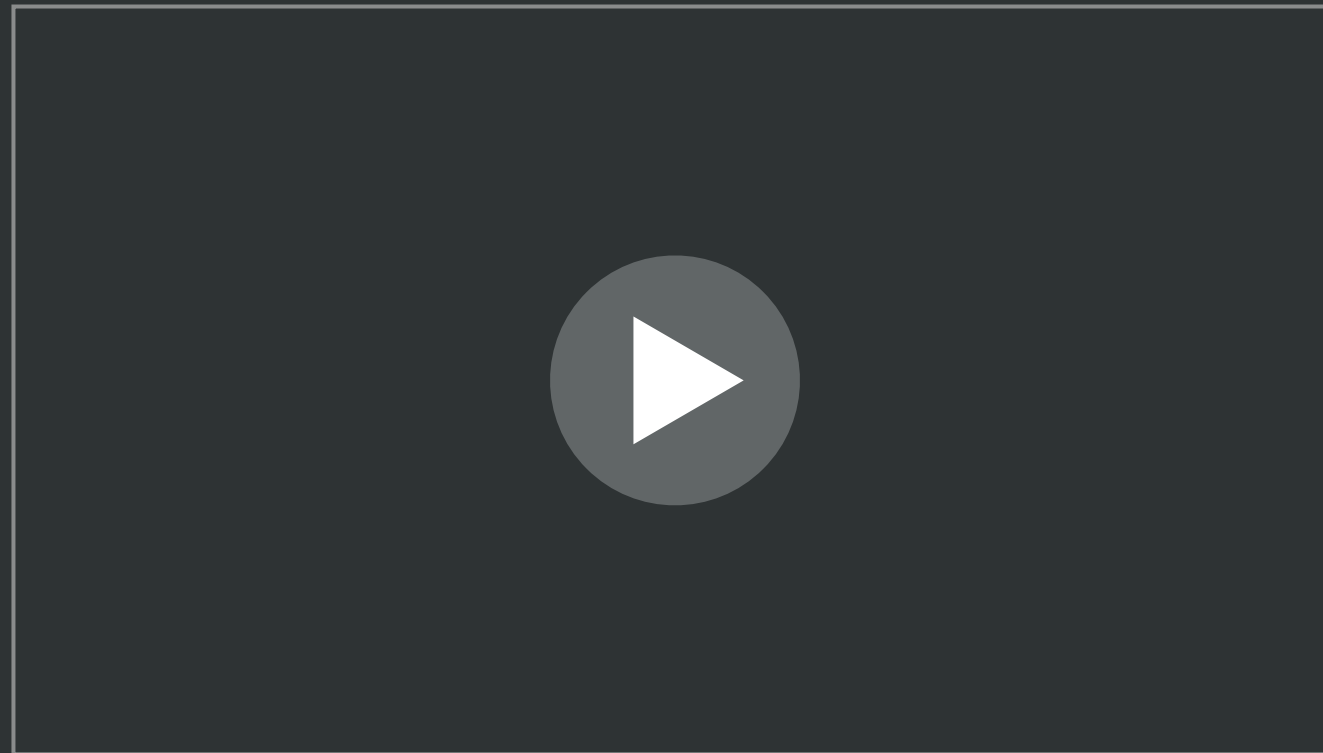
REMEMBER:

Regularly inspect your **JFAK**, **CLS bag**, **CMC bag**, and other Service-specific medical kits

- ✓ **BEFORE**
- ✓ **DURING**
- ✓ **AFTER**

ALL training events and missions

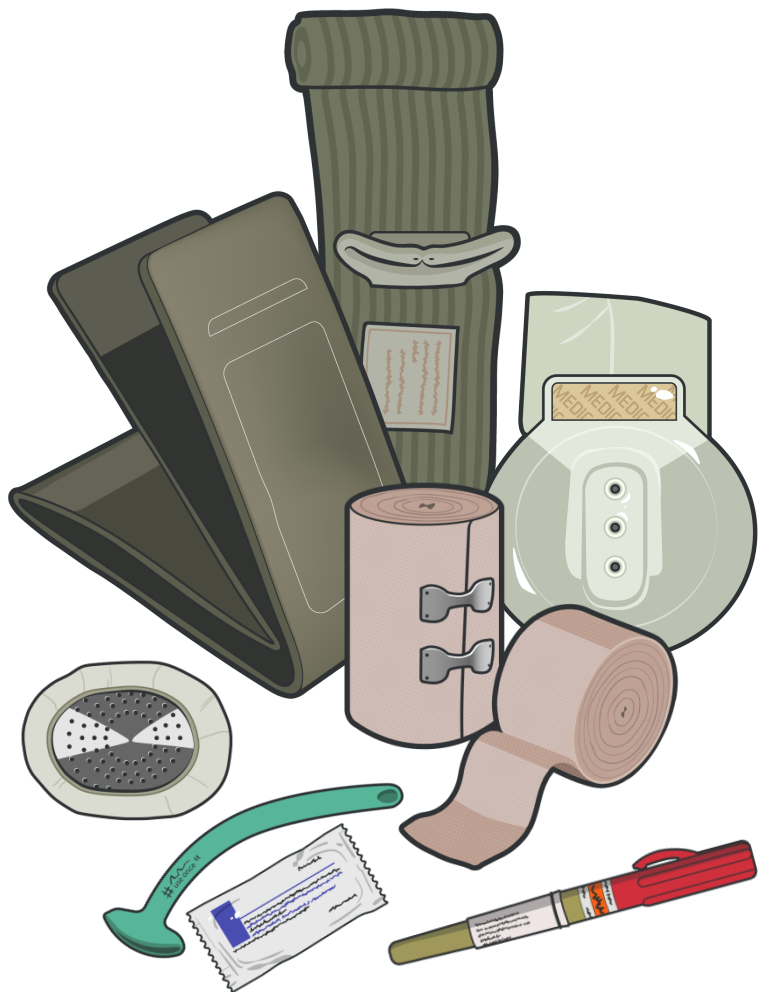
CAT QUICK LAUNCH CONFIGURATION VIDEO



Video can be found on deployedmedicine.com

MAINTENANCE AND RESUPPLY

(cont.)



- ✓ Check to be sure all required equipment is in your Service specific kits and bags
- ✓ Check **seals** and **wrappers**
REPLACE items with **broken** or **unsealed** wrappers
- ✓ Check **expiration** dates
REPLACE if **expired** or the expiration date **DOES NOT** exceed your expected deployment timeframe



DO NOT USE EQUIPMENT THAT IS **NOT** CoTCCC APPROVED



DO NOT DEPLOY WITH **MISSING, PREVIOUSLY USED** FOR TRAINING, OR **EXPIRED** EQUIPMENT

OTHER CONSIDERATIONS



TRAIN on the equipment you will use

PREPARE for mass casualties by triaging and staging your medical equipment

EVENLY DISTRIBUTE equipment amongst the unit

TRAIN with a completely stocked CMC bag to help simulate the deployed environment

OTHER CONSIDERATIONS



Beware of **UNAPPROVED
EQUIPMENT**



Beware of **FAKE EQUIPMENT**



Check unit-specific
evacuation equipment

SUMMARY

Know the basic contents of **JFAKs**, **CLS** bags, and **CMC** bags

Understand how the equipment in each kit and bag supports delivery of TCCC

Maintain and as needed, replace equipment before deploying

Describe proper usage and implementation of DD 1380 TCCC Card and 9-Line MEDEVAC Card

TRAIN, TRAIN, TRAIN!!!

Check your durable (non-disposable) equipment to make sure that it works after repeated training

CHECK ON LEARNING



What type of tourniquet found in the CMC Aid Bag is used to control massive hemorrhage in the axilla that is too proximal for effective limb tourniquet application?

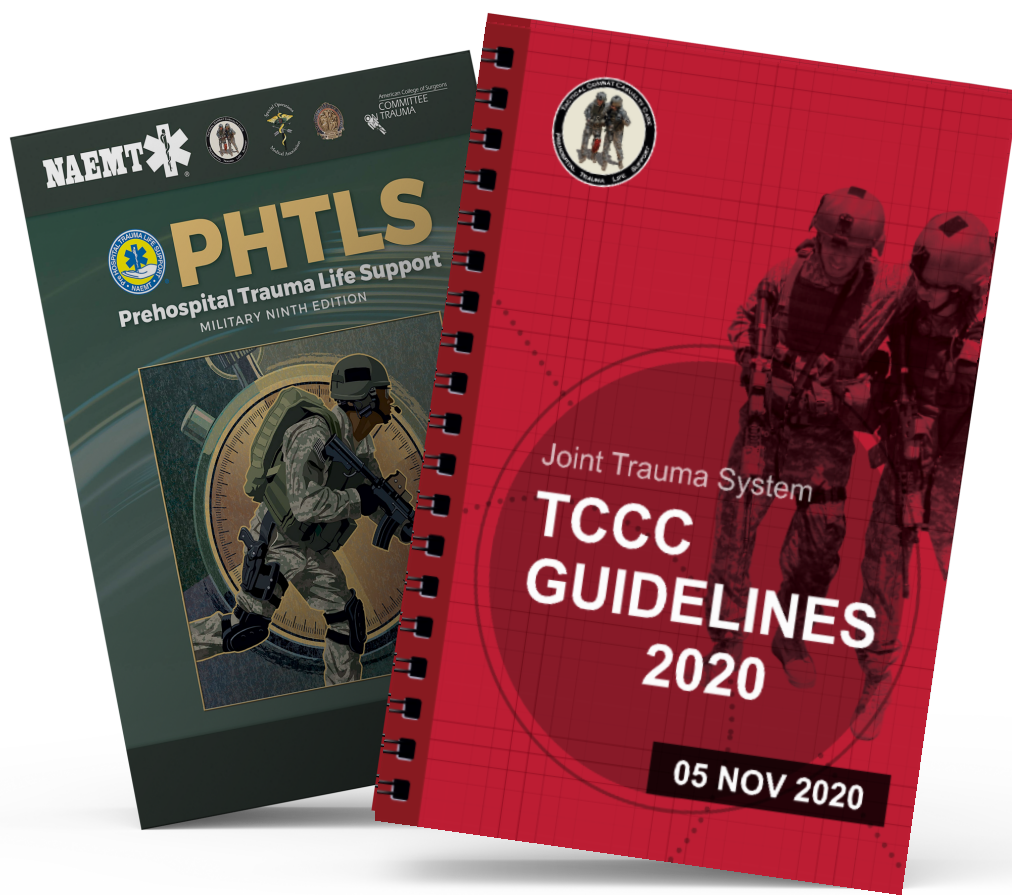


When should you inspect your JFAK, CLS bag, CMC bag and other Service-specific medical kits?



ANY QUESTIONS?

REFERENCES



TCCC: Guidelines by JTS/CoTCCC

The latest edition is dated 05 November 2020. 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.