

COMBAT PARAMEDIC/ PROVIDER

TACTICAL COMBAT CASUALTY CARE COURSE

MODULE 2: MEDICAL EQUIPMENT

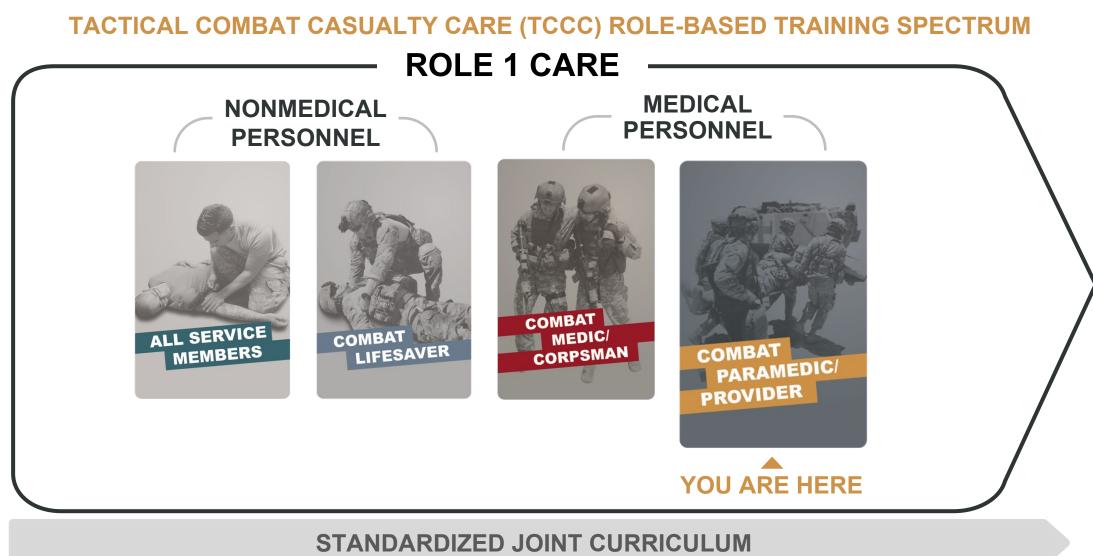


Committee on Tactical Combat Casualty Care (CoTCCC)

TCCC TIER 1 All Service Members

TCCC TIER 2 Combat Lifesaver **TCCC** TIER 3 Combat Medic/Corpsman **TCCC** TIER 4 Combat Paramedic/Provider







1 x TERMINAL LEARNING OBJECTIVES

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

- **2.1** Describe the use of a first aid kit in accordance with Service policy.
- **2.2** Identify the contents of an individual Joint First Aid Kit (JFAK), and/or other Service-specific first aid kits.
- 2.3 Describe the general maintenance and resupply procedures for trauma materials in a first aid kit in accordance with Service guidelines.
- **2.4** Identify the contents of a Combat Lifesaver kit and/or other Service-specific first aid kits.
- **2.5** Describe the use of components of a Combat Lifesaver kit in accordance with Service policy.
- **2.6** Identify the contents of a Combat Medic/Corpsman aid bag and/or other Service-specific first aid kits.
- **2.7** Describe the use of a Combat Medic/Corpsman aid bag, in accordance with Service policy.
- **2.8** Describe the use of Combat Paramedic/Provider kits in accordance with Service policy.
- **2.9** Identify the contents of Combat Paramedic/Provider kits and/or other Service-specific first aid kits.
- **2.10** Identify the importance and relevance of CoTCCC recommendations on specific combat casualty care equipment.

10 x ENABLING LEARNING OBJECTIVES



FIRST AID KITS WHAT DO I TAKE?



INDIVIDUAL Joint First Aid Kit (JFAK)



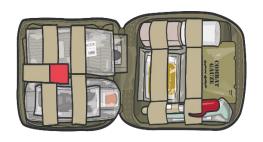
COMBAT LIFESAVER BAG CLS Bag



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

COMBAT PARAMEDIC/ PROVIDER KITS



JFAK CONTENT AND CAPABILITIES



INDIVIDUAL JFAK



ALWAYS use the casualty's JFAK first



Tourniquet, hemostatic dressing, and pressure bandages Nasopharyngeal airway



Chest seal and NDC 10-14 gauge 3.25" needle catheter

Items included in this kit can treat the following:



Combat wound medication pack

Combat wound medication pack



Gauze and rigid eye shield

Other: DD Form 1380 and a marker



COMBAT LIFESAVER BAG CONTENT AND CAPABILITIES



BUDDY AID Combat Lifesaver Bag Items included in this kit can treat the following:



Tourniquets, hemostatic dressing, and pressure bandages

Nasopharyngeal airway



Vented chest seal, bag valve mask, and NDC 10-14 gauge 3.25" needle catheter

Gauze and elastic bandage



Active/Passive Hypothermia Kits/Blankets and MACE 2



Combat wound medication pack



Combat wound medication pack



Gauze and rigid eye shield



Splinting material, cravats, and elastic wraps

Other: DD Form 1380 and MEDEVAC Request Card



COMBAT MEDIC/CORPSMAN CONTENT AND CAPABILITIES



ADVANCED TCCC CARE Combat Medic/Corpsman Aid Bag



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

Items included in this kit can treat the following:



Tourniquet, hemostatic dressing, pressure bandage, junctional tourniquet, X-stat®, and wound closure device



Nasopharyngeal airway, extraglottic airway, cricothyroidotomy kits, and suction devices



Bag valve mask, vented chest seals, NDC 10-14 gauge 3.25" needle catheter



Pelvic compression devices, Intravenous (IV) and Intraosseous (IO) access kits, IV fluids, EldonCard[™], tranexamic acid (TXA), blood products, and calcium



Active/Passive Hypothermia Kits/Blankets, IV fluid warmers, and MACE 2



COMBAT MEDIC/CORPSMAN CONTENT AND CAPABILITIES (cont.)



ADVANCED TCCC CARE Combat Medic/Corpsman Aid Bag



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

Items included in this kit can treat the following:



Pain medications, extra combat wound medication packs



Antibiotics, extra combat wound medication packs



Gauze, elastic wrap, and rigid eye shields



Malleable splints, rigid splints, cravats, and elastic wraps

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



COMBAT PARAMEDIC/PROVIDER CONTENT AND CAPABILITIES



ADVANCED TCCC CARE Combat Paramedic/Provider Bag

Contents of this kit will be similar to the CMC Aid Bag but will include additional items appropriate for more advanced skill set including:

Additional medications, including those needed for rapid sequence induction and intubation in more advanced airway management

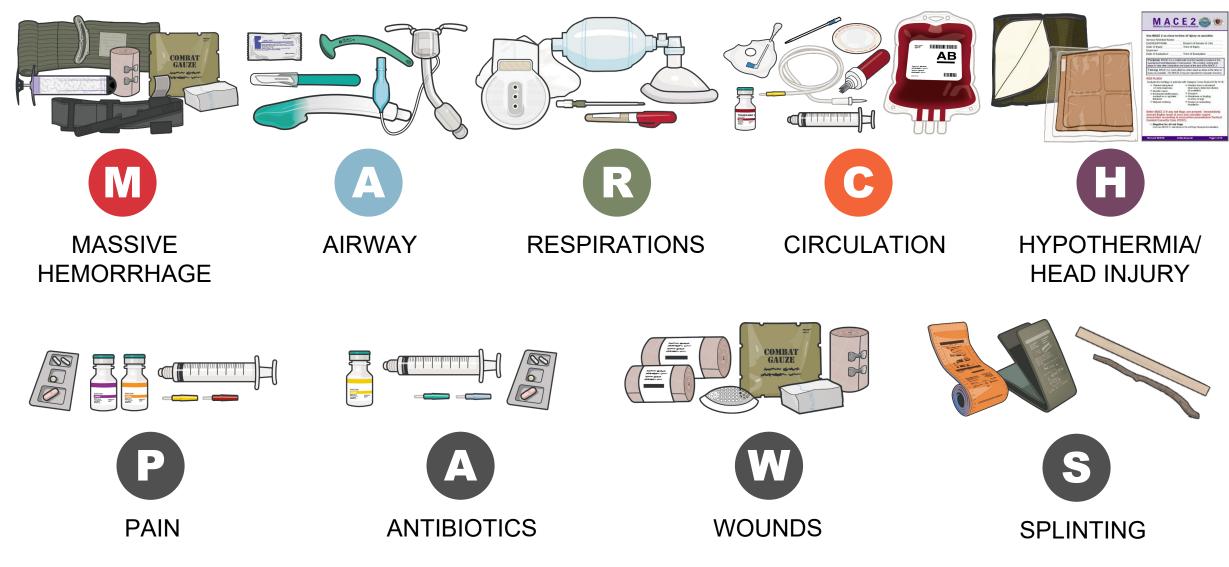
Advanced airway equipment including endotracheal tubes, laryngoscope, etc. for endotracheal intubation

Other advanced equipment specific to provider skill set, mission, unit, etc.



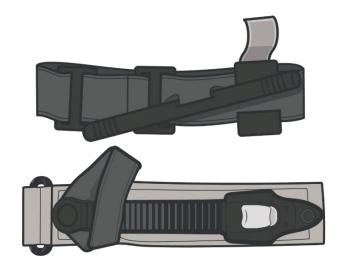
Stock this bag in accordance with your **SOP/Protocols**







M ASSIVE HEMORRHAGE EQUIPMENT



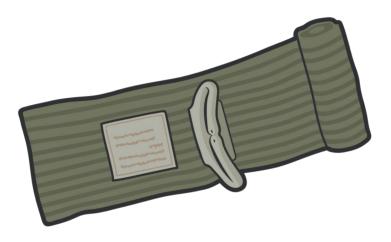
TOURNIQUET

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



HEMOSTATIC DRESSING

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

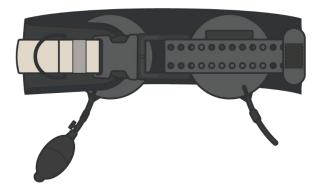


PRESSURE BANDAGE

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

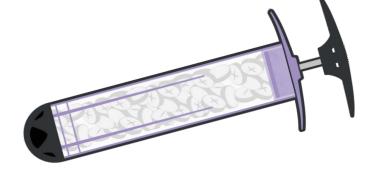


M ASSIVE HEMORRHAGE EQUIPMENT (cont.)



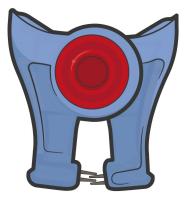
JUNCTIONAL TOURNIQUET

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 IRWAY CONTROL EQUIPMENT



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

EXTRAGLOTTIC AIRWAY (EGA)

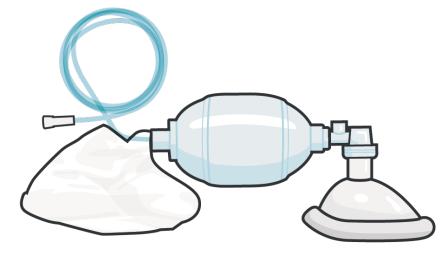
Used to establish an airway for oxygenation and ventilation without entering the trachea

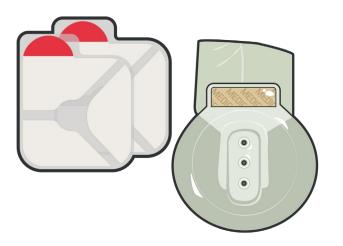
SURGICAL AIRWAY/ETT INTUBATION KIT

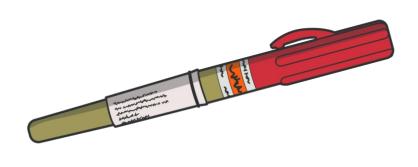
An advanced surgical airway/ETT intubation kit is used when other airway adjuncts have failed, as well as an airway obstruction or pending airway obstruction



ESPIRATION 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

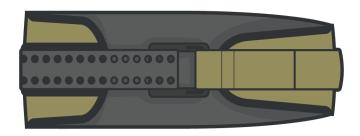
Vented and adhesive chest seal for treating **penetrating chest wounds**, if a vented chest seal is not available use a non-vented chest seal

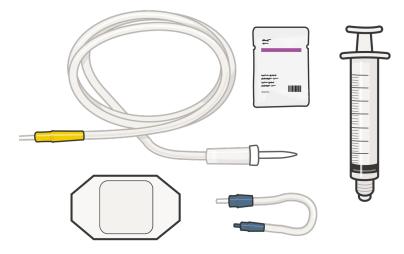
10-14 GAUGE 3.25" NEEDLE CATHETER

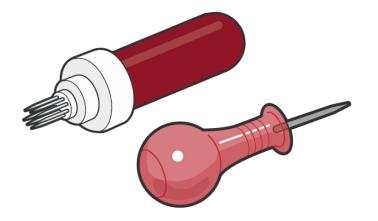
Catheter-over-needle device inserted into the chest to **treat tension pneumothorax**











PELVIC COMPRESSION DEVICE

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

INTRAVENOUS (IV) ACCESS KIT

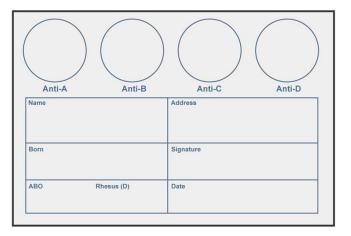
The necessary supplies to establish intravenous access

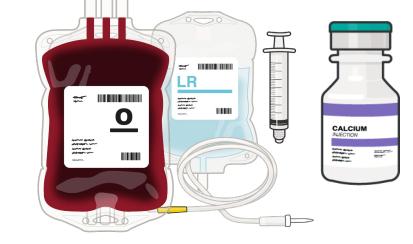
INTRAOSSEOUS (IO) ACCESS EQUIPMENT

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



CIRCULATION EQUIPMENT (cont.)





ELDONCARD[™]

A card used to determine blood type

TXA

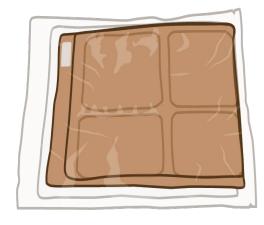
Tranexamic acid – to help the casualty's blood clotting process

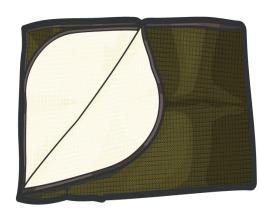
BLOOD PRODUCTS, IV FLUIDS, AND CALCIUM

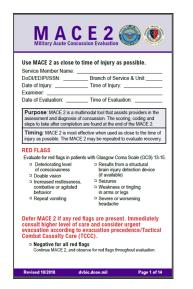
Blood products and fluids – to replace casualty losses due to hemorrhage



YPOTHERMIA AND HEAD INJURY







ACTIVE PASSIVE 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)

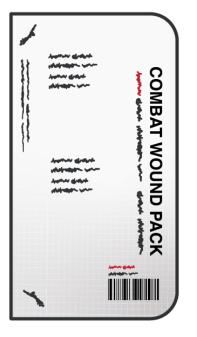


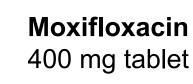
NOTE: DD Form 1380 is also used in AVPU (alert, verbal, pain, unresponsive) assessment as part of head injury documentation



PAIN and ANTIBIOTIC MEDICATIONS

COMBAT WOUND MEDICATION PACK





Meloxicam

x2 500mg

15 mg tablet

Acetaminophen

5	ζ
INJECTION 1000mg	
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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.

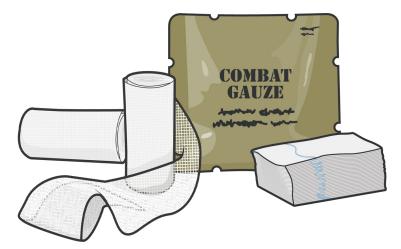


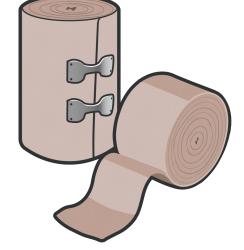
RSI MEDICATIONS

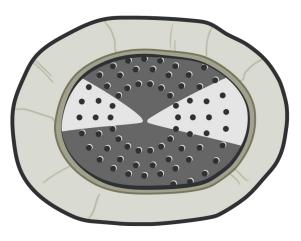
Needed to support rapid sequence induction (RSI) and intubation for advanced airway management.



W OUND MANAGEMENT EQUIPMENT







GAUZE

Gauze rolls used to **stop minor bleeding** or as **bulky material** for wound packing, hemostatic properties to promote wound clotting

ELASTIC WRAP

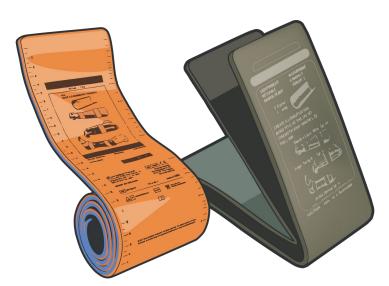
Stretchable cloth like wrap used to hold medical different types of medical intervention equipment in place

RIGID EYE SHIELD

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









MALLEABLE SPLINTING

Semi-rigid material used to immobilize an injured limb

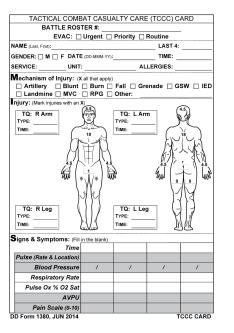
RIGID SPLINTING

Rigid splinting material that stabilizes the limb and protects the injury

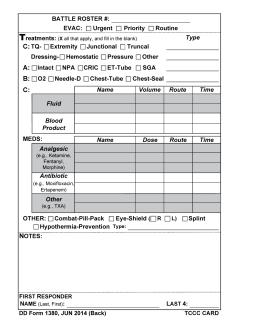


DOCUMENTATION/MEDEVAC REQUEST

FRONT



BACK



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).	
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AUG 2002 (This supersedes GTA 08-01-004 MAY 1997)

MEDEVAC REQUEST FORM

DISTRIBUTION: US ARMY TRAINING SUPPORT CENTERS (TSCs) HEADQUARTERS, DEPARTMENT OF THE ARMY, ATTN: ATIC-ITST-T, GTA Program, Fort Eustis, VA 23604-5166

GTA 08-01-004

DD Form 1380 TCCC CARD

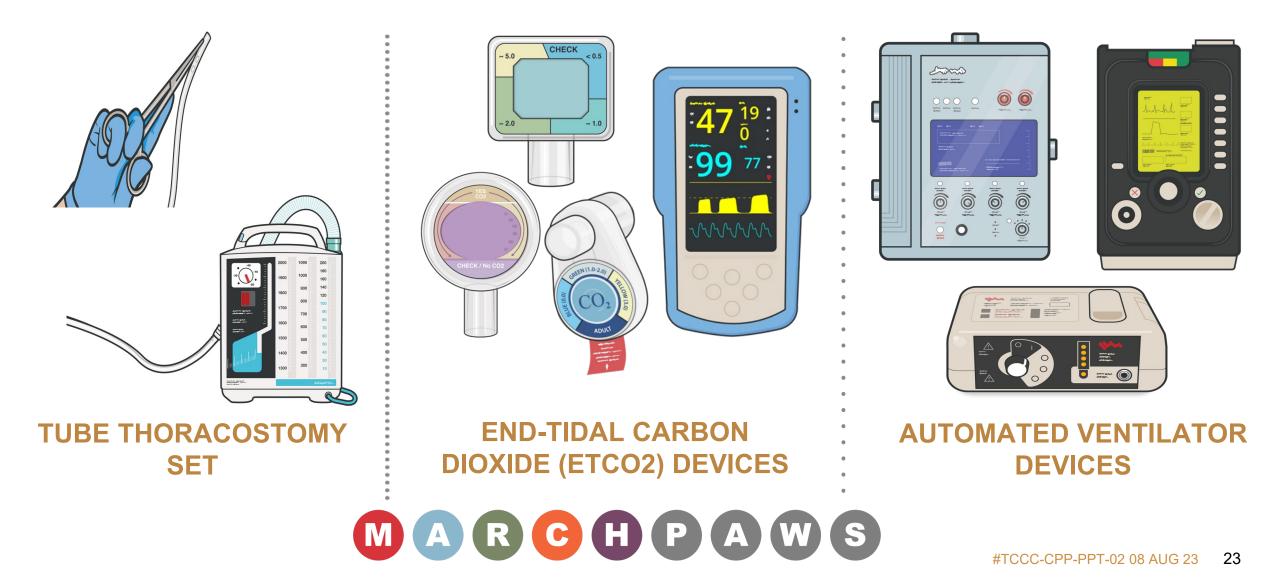
DoD-approved standard for documenting **ALL** assessment and treatment provided to casualties before **evacuation** or handoff to other **medical personnel**

MEDEVAC Request

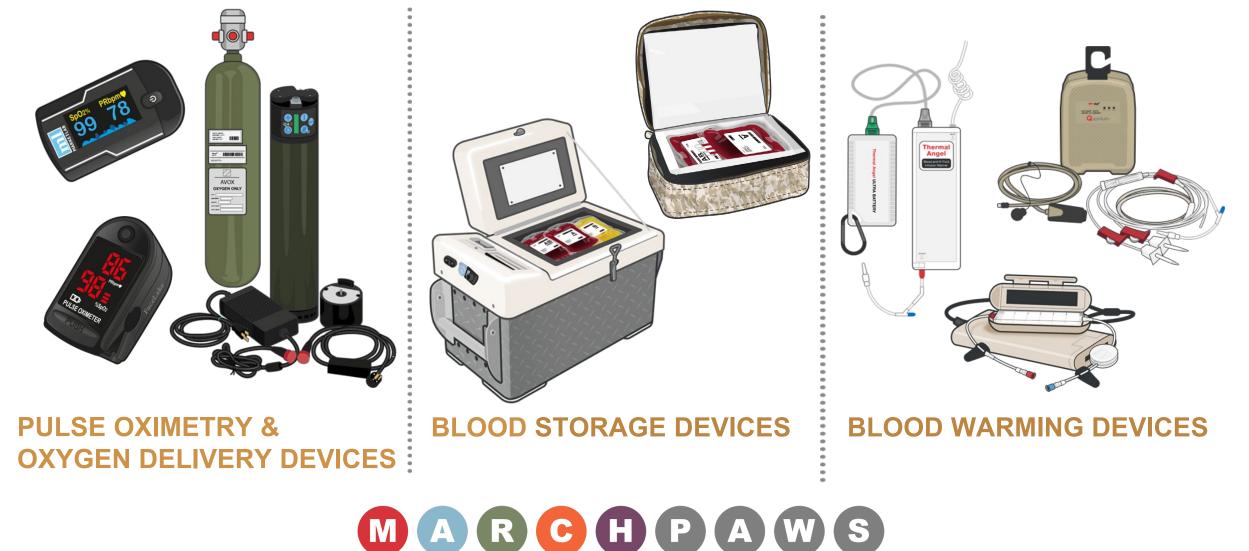
Call procedure that is divided into nine lines of information for evacuation crews



ADDITIONAL MEDICAL EQUIPMENT

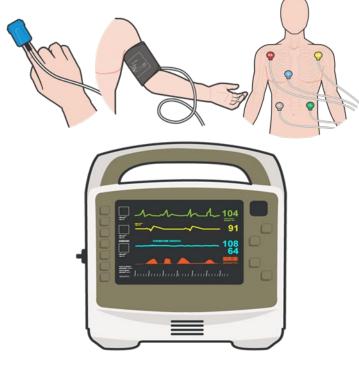


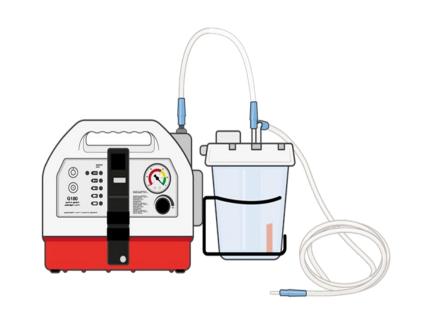
Module 2: Medical Equipment ADDITIONAL MEDICAL EQUIPMENT (cont.)

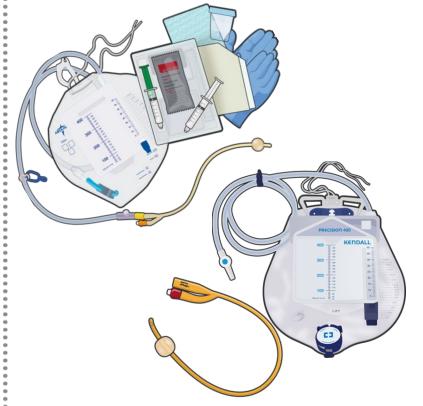




ADDITIONAL MEDICAL EQUIPMENT (cont.)





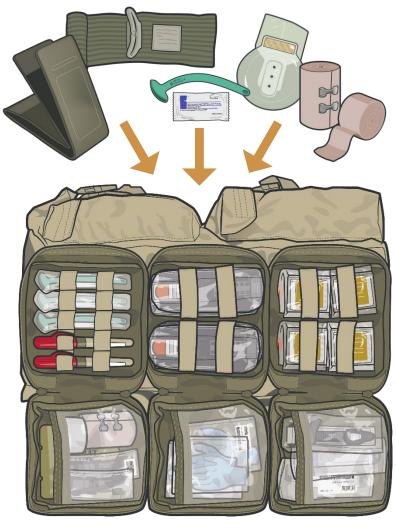


CASUALTY MONITORING DEVICES

MECHANICAL SUCTION DEVICES FOLEY CATHERIZATION KIT



MAINTENANCE AND RESUPPLY



REMEMBER:

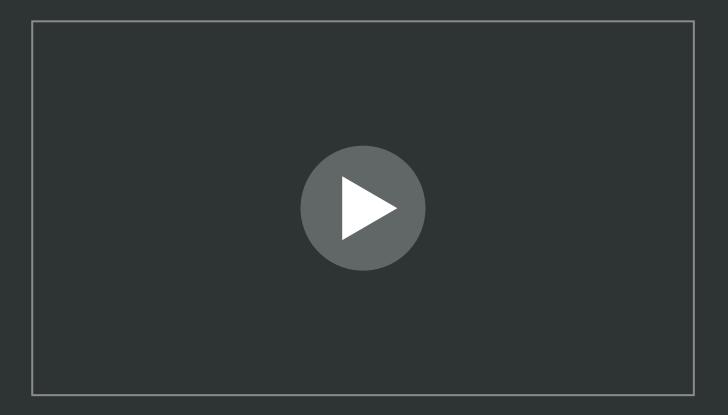
Regularly inspect your JFAK, CLS bag, CMC bag, CPP kits, and other Service-specific medical kits

BEFOREDURINGAFTER

ALL training events and missions



CAT QUICK LAUNCH CONFIGURATION VIDEO



Video can be found on deployedmedicine.com



MAINTENANCE AND RESUPPLY



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-Recommended



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 bag/kit to help simulate the deployed environment

Check unit-specific evacuation equipment



COTCCC EQUIPMENT RECOMMENDATIONS

Beware of UNAPPROVED EQUIPMENT Beware of FAKE EQUIPMENT







SUMMARY

Knowledge Topics

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

Understand how the equipment in each kit and bag supports the various skill levels of prehospital care providers in delivery of TCCC

Maintain and replace equipment before deploying, as needed

Describe proper usage and implementation of DD 1380 TCCC Card and MEDEVAC Request 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?



What equipment is available in the CMC Aid Bag and/or CPP kit that can be used to establish access for fluid and blood administration if IV access cannot be obtained?



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



Why is it important to consider CoTCCC recommendations on specific combat casualty care equipment?

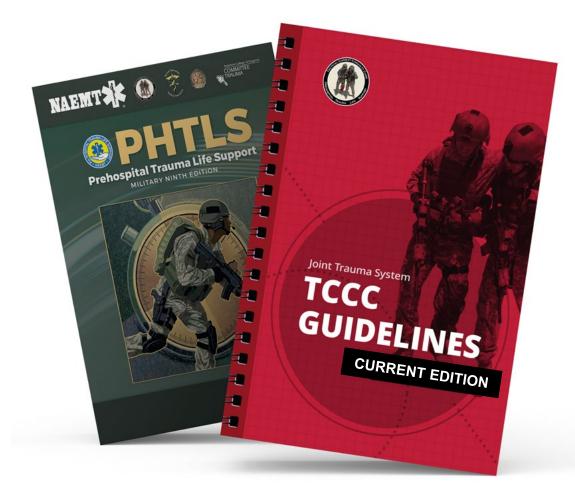


ANY QUESTIONS?





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, Chapter 25 by NAEMT

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