# **Emergency War Surgery Course Joint Trauma System**



## **U.S. Military Health System**



Joint Trauma System Battlefield Trauma Educational Program



















### Scenario



A surgeon has a theory that a specific intervention may lead to improved outcomes for battlefield casualties over the course of combat operations in Afghanistan. He would like to collect information to assess his theory.

What organization would support data collection and performance improvement?

### **Objectives**



- Be familiar with the military medical system.
- Understand organizational structures within the system.
- Understand the military surgeon's role in the organization.



## **Background**

casualties



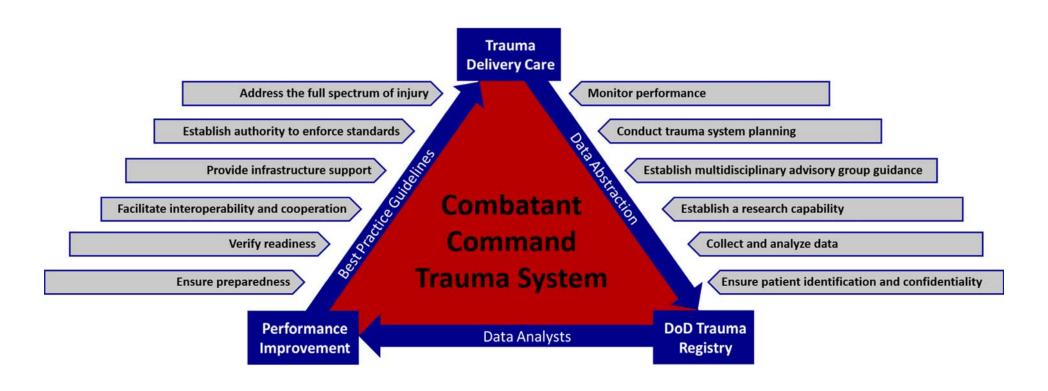
■ Trauma system: Organized, coordinated effort in a geographic area
 □ Continuum of care from point of injury to definitive care
 □ Optimizes trauma care delivery
 □ Shown to reduce morbidity and mortality
 □ Military trauma system works in battlefield and austere environments
 ■ Combatant Command Trauma System (CTS)
 □ Led by a team working directly with the Combatant Command (CCMD)
 □ A systematic and integrated approach to performance improvement

2020, v1.0

A system designed for trauma supports both medical and surgical

# **EWS Military Health System CTS Core Functions (12)**





## **CTS Capabilities**



## **CTS Capabilities**

- 1. Leadership cell
- 2. Prevention of injury
- 3. Prehospital trauma care
- 4. Evacuation
- 5. Advanced resuscitative care
- 6. Damage control surgery

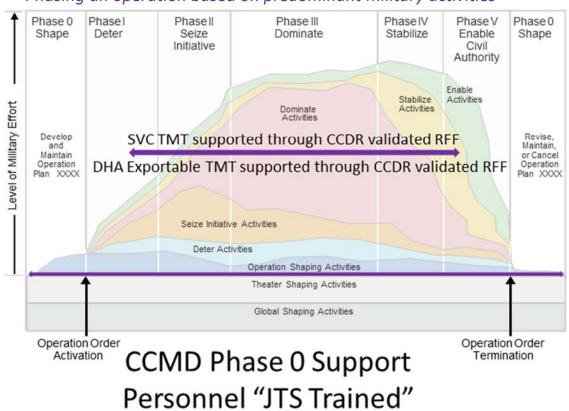
- 7. Inter-facility transfer
- 8. Definitive surgery
- In-theater rehabilitation/ Return to duty
- 10. Long range evacuation
- 11. CONUS hospitalization and follow-up care

# **EWS Military Health System CTS Capabilities**



CTS Supports
All Phases
of Operations

## Joint Operations across the Conflict Continuum Phasing an operation based on predominant military activities



### **CTS Key Personnel**



#### Minimum Personnel

- Trauma Medical Director (MD)
- ☐ Trauma Program Manager (RN)
- ☐ Trauma Registrar (Patient Admin)

### Augmented Personnel

- □ Prehospital Medical Director (MD)
- □ Senior Enlisted Advisor (Medic)

# **EWS Military Health System Spectrum of injury**



### **Trauma Education**







### **Inform Prevention**

**Deliver all roles of care for all patients** 





## **CTS Planning**



## Conduct trauma system planning on evidence-based practices and lessons learned.





## **Data Analysis**



**Collect and analyze data** 

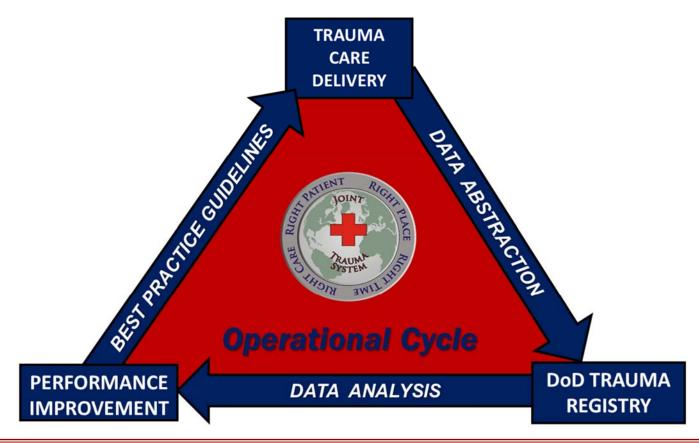




### **Joint Trauma System**



### **CTS Core Function: Monitor Performance of Trauma Care Systems**



## **Joint Trauma System**

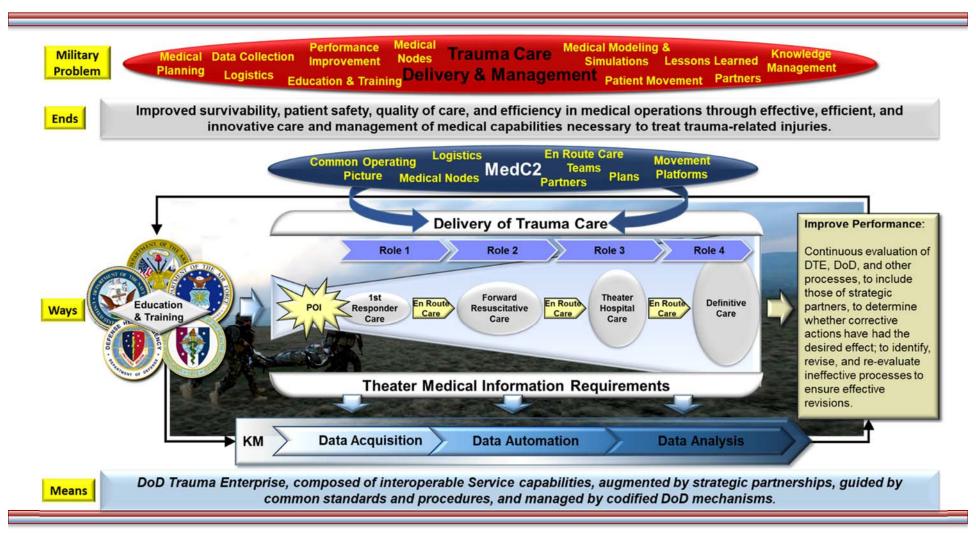


### Joint Trauma System (JTS) is the DoD Reference Body for Trauma

- Mission: to improve trauma readiness and outcomes through evidence-driven performance improvement.
- Provides coordinated capability for injury prevention, care, and rehabilitation in support of DoD trauma initiatives and activities.
- Manages the DoD Trauma Registry (DoDTR)
  - Web-based global data collection tool with specialty modules (i.e. orthopaedic, traumatic brain injury)
  - Collects and aggregates combat casualty care epidemiology, treatments and outcomes.
  - ☐ Supports U.S. military performance improvement initiatives.

# **EWS Military Medical System Defense Trauma Enterprise**





### **Exercise**



A surgeon has a theory that a specific intervention leads to improved outcomes for battlefield casualties over the course of combat operations in Afghanistan. He would like to collect information to assess his theory.

What organization would support data collection and performance improvement?

### **Conclusion**



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- Be familiar with Combatant Command Trauma System.
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- Understand the military surgeon's role in the organization.

### **Multimedia Resources**



## JTS Website <a href="http://jts.amedd.army.mil/">http://jts.amedd.army.mil/</a>

- Policy and official activities
- Up-to-date CPGs & training slides
- Forms, documents
- Informative publications
- COVID-19 Resource Links



## Deployed Medicine <a href="https://deployedmedicine.com/">https://deployedmedicine.com/</a>



- Training & Education Resource
- ASM TCCC Curriculum and resources
- Updated videos, podcasts, and resources
- Download CPGs to your smartphone

Audio of all calls posted on deployedmedicine.com

### References



- The Office of The Surgeon General, Borden Institute. Emergency War Surgery, 5th U.S. Edition, 2018. Chap 2: Roles of Medical Care, Chap 35: Battlefield Trauma Systems

  https://www.cs.amedd.army.mil/Portlet.aspx?ID=cb88853d-5b33-4b3f-968c-2cd95f7b7809
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  https://www.ics.mil/Portals/36/Documents/Doctrine/pubs/jp4 02ch1.pdf?ver=2018-10-10-113551-603
- DoD Instruction 6040.47. Joint Trauma System. 28 Sep 2016. Change 1, 05 Aug 2018. <a href="https://jts.amedd.army.mil/assets/docs/policies/JTS-DoDI-604047.pdf">https://jts.amedd.army.mil/assets/docs/policies/JTS-DoDI-604047.pdf</a>

Photos are courtesy of the JTS image library unless otherwise noted.