





Joint Theater Trauma System (JTTS) Joint Theater Trauma Registry (JTTR)

Information Brief to DHB
14 July 2010

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Objectives

- Describe the Joint Theater Trauma System (JTTS)
- Describe the Joint Theater Trauma Registry (JTTR)
- Present recommendations to the DHB establishing the Joint Theater Trauma System as a Program of Record with POM funding



What is a Trauma System?

- Organized effort in a geographic region to deliver full range of trauma care
- Improves patient transition between phases of care
- System coordination improves patient outcomes
 - -Reduces mortality by 15 20%



Why is JTTS Important to the Service Member?

- Trauma volume / rate
 - US Level I trauma center
 - 5,000 evaluations ~ 2,000,000 population
- Historically:
 - CENTCOM JTTS Centers
 - 8,000 evaluations ~ 200,000 population



History of the JTTS

- OTSG-directed theater evaluation visits (May 03)
- 2nd MED BDE directed to develop JTTS in Iraq (Mar 04)
- Service SGs coordinated with Health Affairs on (JTTR) and JTTS (Nov 04)
- OSD/HA directed services to implement JTTR (Dec 04)
- 44th MEDCOM CG to implement JTTS in Iraq (Dec 04)
- CENTCOM established JTTS for entire AOR (Mar 05)



JTTS Vision

 That every soldier, marine, sailor, or airman injured on the battlefield or in the theater of operations has the optimal chance for survival and maximal potential for functional recovery.



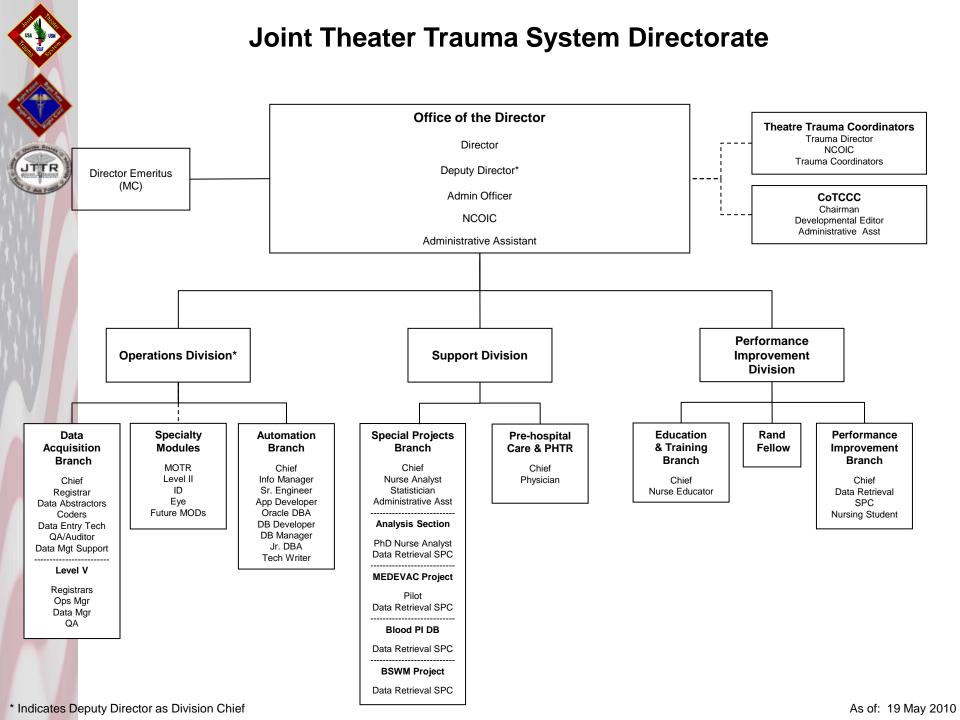
JTTS Mission

- Improve organization and delivery of trauma care
- Facilitate Morbidity and Mortality conferences to promote real-time, datadriven clinical process improvements and improved outcomes
- Develop and implement clinical practice guidelines; monitor compliance with them



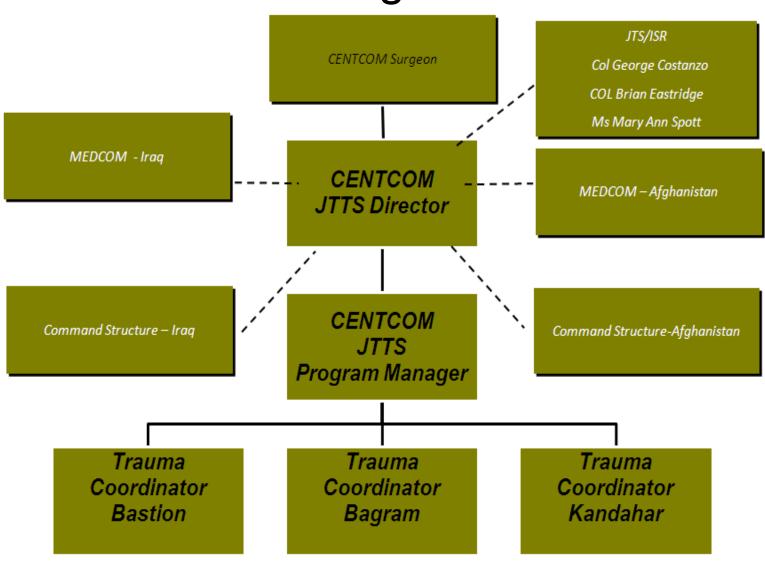
JTTS Mission

- Improve communication among clinicians in the evacuation chain to ensure continuity of care and access to data
- Evaluate and recommend new equipment or medical supplies for use in theater to improve efficiency, reduce cost, improve outcomes
- Populate the JTTR to evaluate care provided, document outcomes, and facilitate conduct of formal research





CENTCOM JTTS Organizational Diagram





JTTS Theater Manning

- In Theater JTTS is supported by <u>all Services</u>:
 - 1 Theater Trauma Medical Director
 - 1 Theater Trauma Nurse Manager
 - 5 Theater Trauma Nurse Coordinator/Registrars (TNC)
 - 1 NCOIC
 - New CENTCOM JMD: 9 US TNCs & 5 NCOs

One/Two NATO trauma nurse coordinators are trained for JTTS/JTTR support: current representative is from Canada. Data are not entered by physicians; there is no duplicate data entry into the medical record



Bagram



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Kandahar



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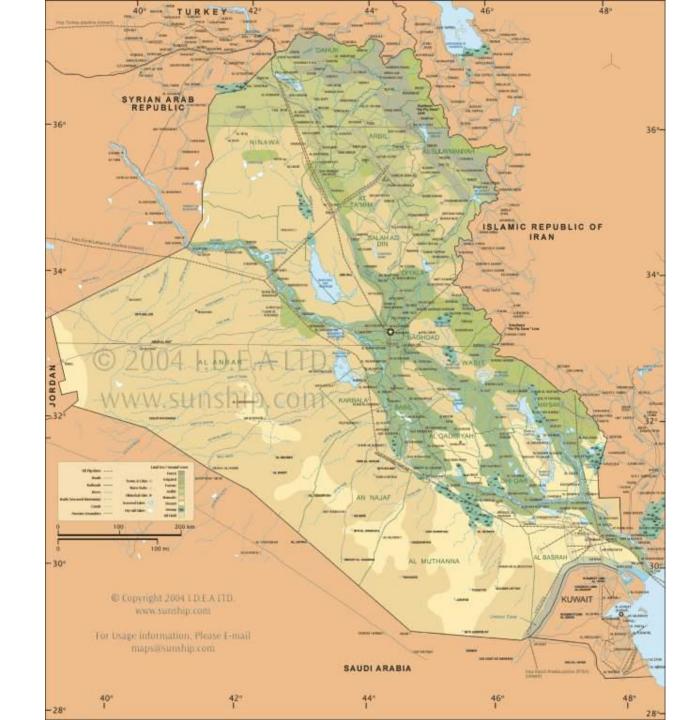
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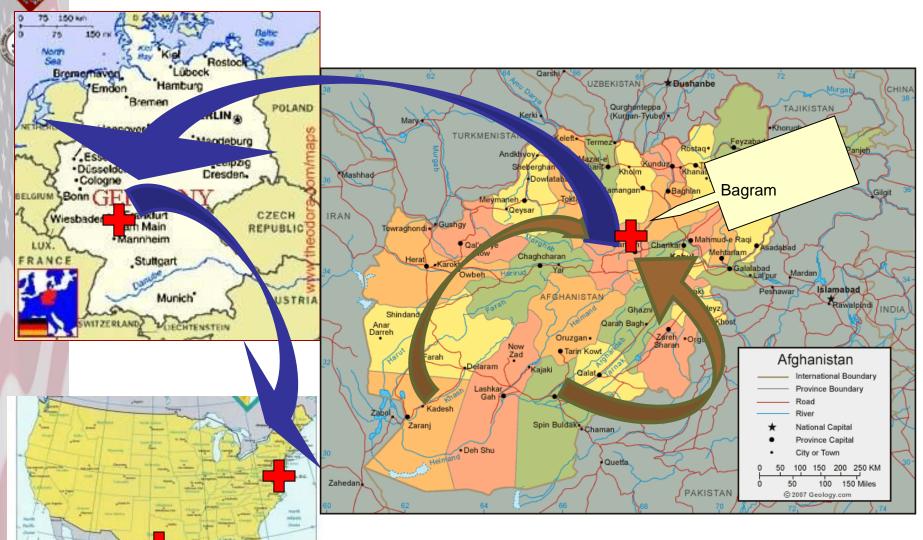








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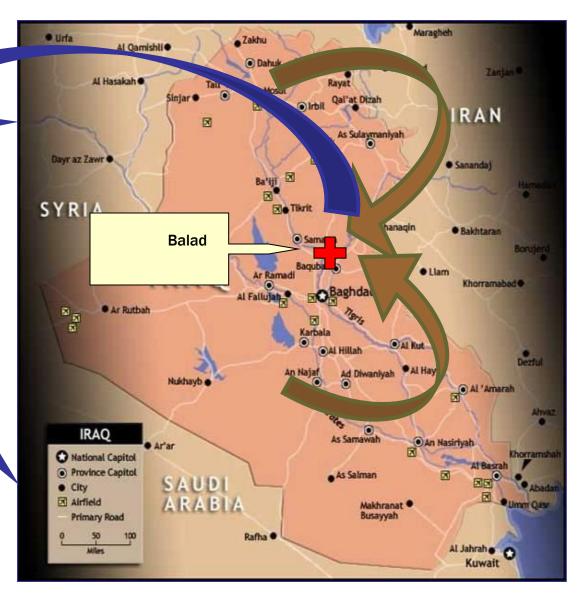


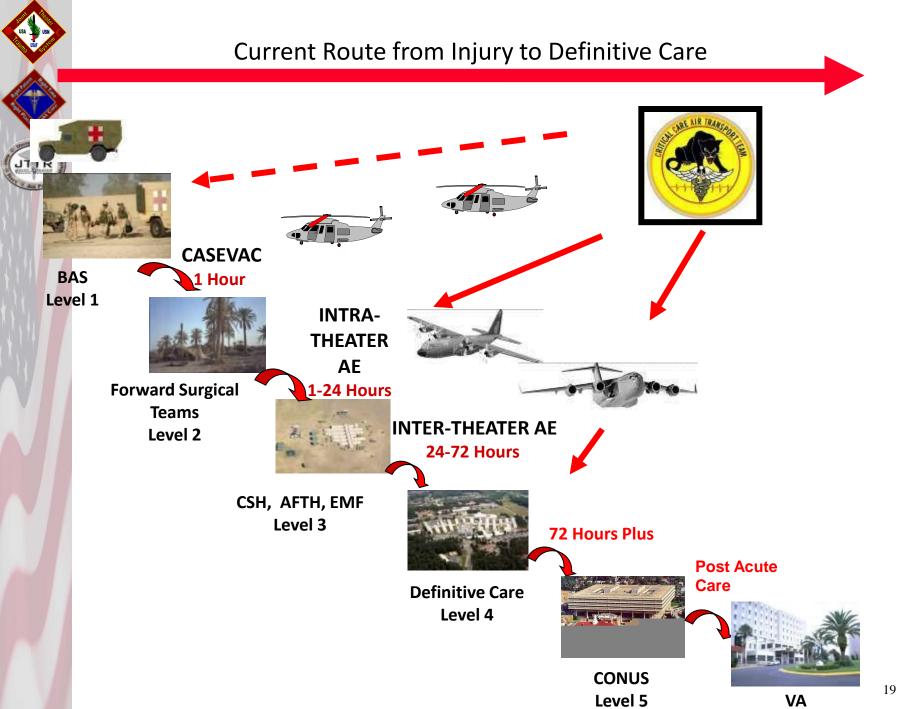
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Enroute Patient Movement

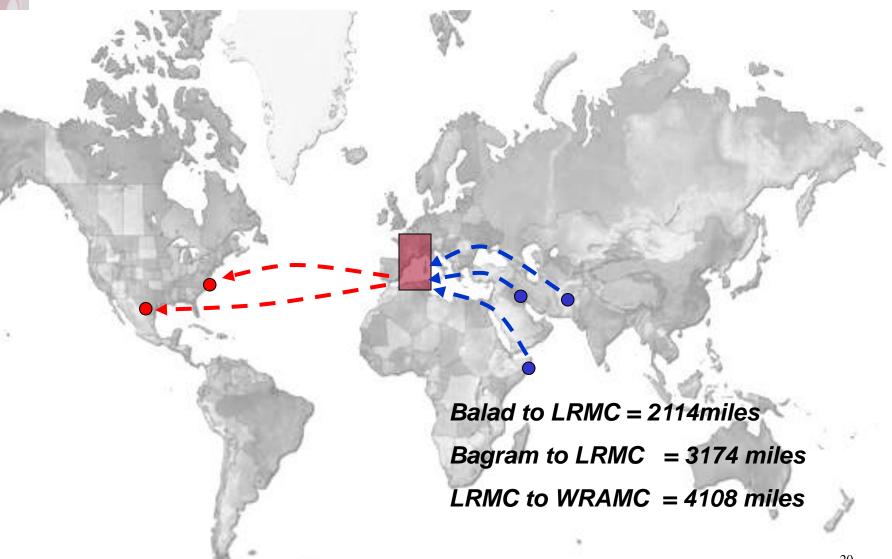








International Model





JTTS/JTTR Relationship

- The JTTS is an organized approach to providing improved trauma care across all Levels of Care to trauma patients
 - Battle Injuries and Non Battle Injuries
- JTTR is the backbone of the system
 - Data repository collecting and hosting DoD trauma related data
 - Admissions and deaths
 - Is an integral and integrated part of the System



JTTS Components

R4 - "Right Patient, Right Place, Right Time, Right Care"

Components Across the Continuum of Care



- ❖Patient Safety
- ❖ Feedback Mechanism for Providers Throughout Continuum of Care
- Loop Closure

Integrated Pre-Hospital, Levels 3-5

- ❖Integrated approach for MTFs and Divisional → ec val → n.
- ❖Coordinated Divisional Evacuation Standar Op and Procedures
- ❖Adopt Clinical Practice Guidelines
- *****Communicate
- **❖**Train

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- Linkage with Materiel Developers
- Service Centers for Health Promotion and Preventive Medicine

Supports Research

- ❖ Provide Raw Data IAW Established MOAs and Protocols
- ❖ Provided statistical information through approved protocols

Leadership Communication

- ❖Trauma Die or Coordinators / Registrars
- **❖Intr The ter**
- In r-T each
- ec mized Lead Agent and Consulting Assets

Education & Advocacy

- ❖ Linkage with Service Medical Education and Training Centers
- ❖Joint Combat Trauma Management Course (JCTMC)
- ❖Trauma Outcomes and Performance Improvement Course -Military (TOPIC-M)

Information Systems

- ❖ Joint Theater Trauma Registry (JTTR)
 - ❖Data for PI and Analysis
 - ❖Data from Theater Medical Data Store (TMDS)
 - ❖ Modules to Support Related Functional Disciplines
 - ❖DoD Trauma Registry Longitudinal Trauma Registry
- ❖ Provide Data and Information Needs for MTFs / Services / DoD



Performance Improvement

- Data driven process
- Involved multidisciplinary staff
- Inclusive of entire continuum of care
- Evaluate system response
- Improve patient outcomes
- Ensure standardization of provider practices



Performance Improvement

- Trauma System Process Improvement
 - Pre-hospital Care and Triage
 - Timeliness of Care and Procedures
 - Review of Care
 - Appropriateness and Legibility of Documentation
 - Compliance / Development of Guidelines,
 Protocols and Pathways
 - Prevention



JTTS Performance Improvement

- Each Level III (and Role 3)
 - Morbidity & Mortality conferences
 - Reviews done by Theater Trauma Coordinators
- Reviews at each facility (LRMC, WRAMC, BAMC, Bethesda)
- Weekly Patient Management Conferences
 - 0800 Eastern Time
- Monthly System-Wide Trauma conferences



Theater Performance Improvement Sample Indicators

- Last recorded temp prehospital
- First recorded temp at Level III
- Nurses TTR
- MD TTR
- Occult injury not found on initial history and physical
- Penetration of PPE
- DVT prevention

- Laparotomy for abdominal trauma >4hrs
- Craniotomy for head trauma >4hrs
- Initial treatment for open fracture or joint laceration >8hrs
- Unplanned return to OR within 24 hours of initial surgery
- Re-intubated within 24 hours of extubation



CPGs

Joint Theater Trauma System Clinical Practice Guideline

POST-SPLENECTOMY VACCINATION								
Original Rele	ase/Approval	30 Mar 2008	Note: This CPG requires an annual review.					
Reviewed:	Dec 2008	Approved:	5 Jan 08					
Supersedes:	Post Splenec	t Splenectomy Vaccination, 5 Nov 08						
Minor C	hanges (or)	Changes are	Changes are substantial and require a thorough reading of this CPG (or)					
Significant Changes Added Appendix A: Includes 6-month review of use of the CPG in theater; included additional clinical references.					cludes			

- Goal. All post-splenectomy and functionally asplencic trauma patients in the CENTCOM AOR will receive appropriate and timely vaccination. All vaccinations will be documented in the longitudinal medical record and include date/time of physician order and date/time of administration by nursing personnel.
- 2. Background. Overwhelming, post-splenectomy sepsis (OPSS) is a rare but devastating complication with a case mortality rate in most studies approaching 50%. OPSS represents a life-long risk, with the incidence in trauma patients estimated to be < 0.5%. It is estimated that splenectomized individuals are up to 540 times more susceptible to lethal sepsis than the general population. The majority of trauma surgeons provide some sort of post-splenectomy vaccination to their patients, although to date, there is no consensus on timing of initial vaccination, vaccination regimen, or future re-vaccination. In 2002, Shatz conducted a survey of trauma surgeons regarding their vaccination practices in post-splenectomy patients. Of 261 active surgeons, 99.2% immunized their splenectomized patients: 1) All but two provided the pneumococcal vaccine, 2) 62.8% advocated the meningococcal vaccination, 3) 72.4% added the Haemophilas influenzae vaccine, and 4) 56.7% gave all three vaccines. The timing of vaccination ranged from the immediate post-operative period to six weeks following surgery.

Within the CENTCOM AOR, > 99% of splenic injuries are managed by total splenectomy. Since these patients are at risk for OPSS, there must be a standardized process to provide post-splenectomy vaccination, accurate documentation, and life-long tracking to identify outcomes (See Appendix A for additional clinical background).

- Indications. All splenectomized patients and those deemed to be functionally asplenic (i.e., < 51% normal architecture and/or vascularization in the remaining splenic segment).
- Dosing.
 - Streptococcus pneumoniae (23-valent polysaccharide): Single dose.
 - Haemophilus influenzae B. (Polysaccharide-protein conjugate) By patient age:
 - 2 6 months: Three doses + booster
 - 2) 7 11 months: Two doses + booster
 - 3) 12 14 months: One dose + booster
 - 4) > 15 months: Single dose
 - Neisseria meningitidis (Quadrivalent): Single dose



Access Trauma CPGs

Burn

Center

Combat Casualty

Care Research

http://www.usaisr.amedd.army.mil/cpgs.html

Casualty Care

Tactical Combat

JTTS Home Page (Google: USAISR)

U.S. Army Institute of Surgical Research Joint Theater Trauma System Clinical Practice Guidelines



Information

The Joint Theater Trauma System (JTTS) provides the following listed clinical practice guidelines for: (Updated 25 November 2009)

Opposing viewpoints are encouraged in the interest of advancing medical treatment. To submit an opposing viewpoint please e-mail: webmaster.usaisr@amedd.army.mil

- 1. CENTCOM JTTS CPG Development Approval Implementation and Monitoring Process
- 2. Acoustic Trauma and Hearing Loss

General

Information

- 3. Trauma Airway Management
- 4. Blunt Abdominal Trauma
- 5. Burn Care

Home

- 6. Compartment Syndrome and Fasciotomy
- 7. Damage Control Resuscitation at Level IIb/III Treatment Facilities

Joint Theater

Trauma System

- 8. Prevention of Deep Venous Thrombosis
- **Emergency Resuscitative Thoracotomy**
- Use of Electronic Clinical Documentation in the CENTCOM AOR
- 11. Extremity Soft Tissue Wound/Amputation Management
- 12. Frozen and Deglycerolized Red Blood Cells
- 13. Fresh Whole Blood (FWB) Transfusion
- 14. Hypothermia Prevention, Monitoring and Management
- Inhalation Injury and Toxic Industrial Chemical Exposure
- Irrigation of War Wounds: Wound Debridement, Washout and Irrigation
- 17. Management of Mild Traumatic Brain Injury (mTBI)/Concussion in the Deployed Setting



- CPG Index
- CENTCOM JTTS CPG Process 30 April 10
- Acoustic Trauma and Hearing Loss 16 Feb 10
- Amputation 16 Feb 10
- Blunt Abdominal Trauma 07 Nov 09
- Burn Care 21 Nov 09
- Catastrophic Care 16 Feb 10
- Cervical Spine Evaluation 16 Feb 10
- Compartment Syndrome (CS) and the Role of Fasciotomy in Extremity War Wounds – 30 Apr 10



- CPG nutrition 16 Feb 10
- Damage Control Resuscitation at Level IIb/III
 Treatment Facilities 13 Feb 10
- Emergent Resuscitative Thoracotomy 06 May 10
- Fresh Whole Blood (FWB) Transfusion 12 Jan 10
- Frozen and Deglycerolized Red Blood Cells (RBCs) -12 Nov 09
- Hypothermia Prevention, Monitoring, and Management
 12 Nov 09
- Infection Control 16 Feb 10



- Inhalation Injury and Toxic Industrial Chemical Exposure – 07 Nov 09
- Initial Care of Ocular and Adnexal Injuries 16 Feb 10
- Intratheater Transfer and Transport of Level II and III
 Critical Care Trauma Patients 19 Nov 09
- Management of Mild TBI (mTBI)/Concussion in the Deployed Setting – 21 Nov 09
- Management of Patients with Severe Head Trauma 13 Feb 10
- Management of War Wounds 16 Feb 10



- Pelvic Fracture Care 12 Nov 09
- Post-Splenectomy Vaccination 05 Jan 10
- Prevention of Deep Venous Thrombosis (DVT) 21
 Nov 09
- Trauma Airway Management 26 Nov 09
- Urologic Trauma Management 07 Nov 09
- Use of Electronic Clinical Documentation in the CENTCOM AOR – 07 Nov 09
- Use of Trauma Flow Sheets 01 Dec 09
- VAP 16 Feb 10
- Vascular Injury 07 Nov 09



CPG "Authority"

 Approved by CENTCOM JTTS Director, JTS Director and Deputy Director and CENTCOM SG



What is the JTTR?

- It is NOT the medical record
- It is NOT a research database, although it supports it
- It is NOT a patient tracking tool
- A trauma registry is a compilation of identified information taken from the medical record, expert clinical inference, scoring and coding schematics, probability determination and performance improvement data requiring human intervention



JTTR

- Largest combat Injury database in existence
- All services injury data derived from level Ilb, III, IV and V medical charts
 - Scoring of Injuries (AIS, ISS, MISS)
 - Diagnosis and Procedures
 - Outcomes
- Currently represents >24,000 US trauma patients, >53,000 total patients, >90,000 total patient-records



JTTR

- Comprehensive initial database
 - -Demographic
 - -Mechanism
 - -Anatomic
 - -Physiologic
 - -Acute outcomes
- Increased commitment tracked II/III through level V
 - Documentation / capture prior Level II needs improvement

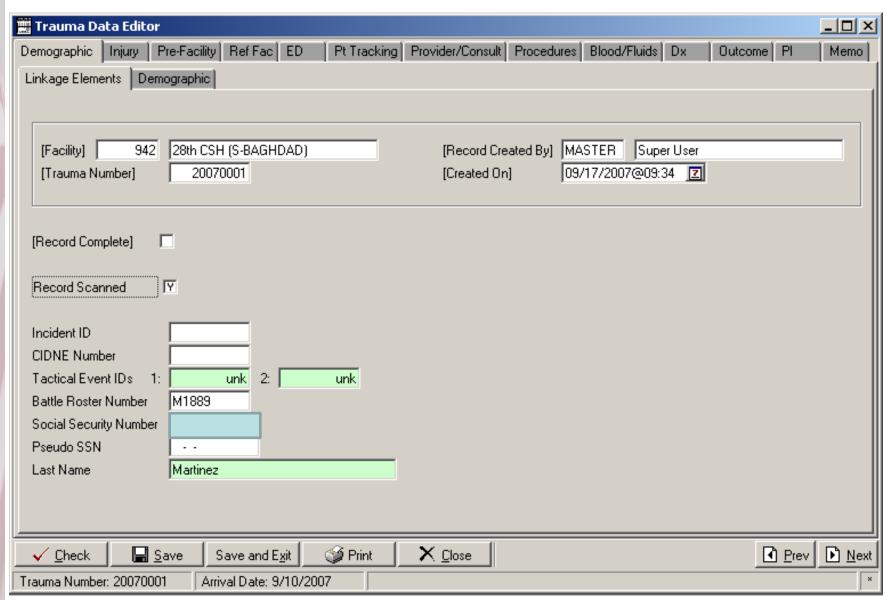


Why are Data Important?

- Data improve practice
- Data drive doctrine and policy



Key Data Elements





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From Where Do JTTR Data Come?



TC2 Progress Note Author: XXXXX, XXXXX BAGRAM/CAMP LACY(7459)

OP NOTE

pre/post op dx: penetrating trans-abdominal/trans-spinal injury

procedure: re-laparotomy, splenectomy, re-resection of distal transverse

colon, temporary abdominal closure

surgeon: xxxxxx/zzzz

GETA

findings: moderate peri-splenic hematoma tracking along the gastro-splenic ligament and up around the GE junction with some active extravasation. Splenectomy performed. Pancreatic tail in close proximity to the splenic hilum so blake closed suction drain placed in the LUQ.

Distal aspect of the previously resected transverse

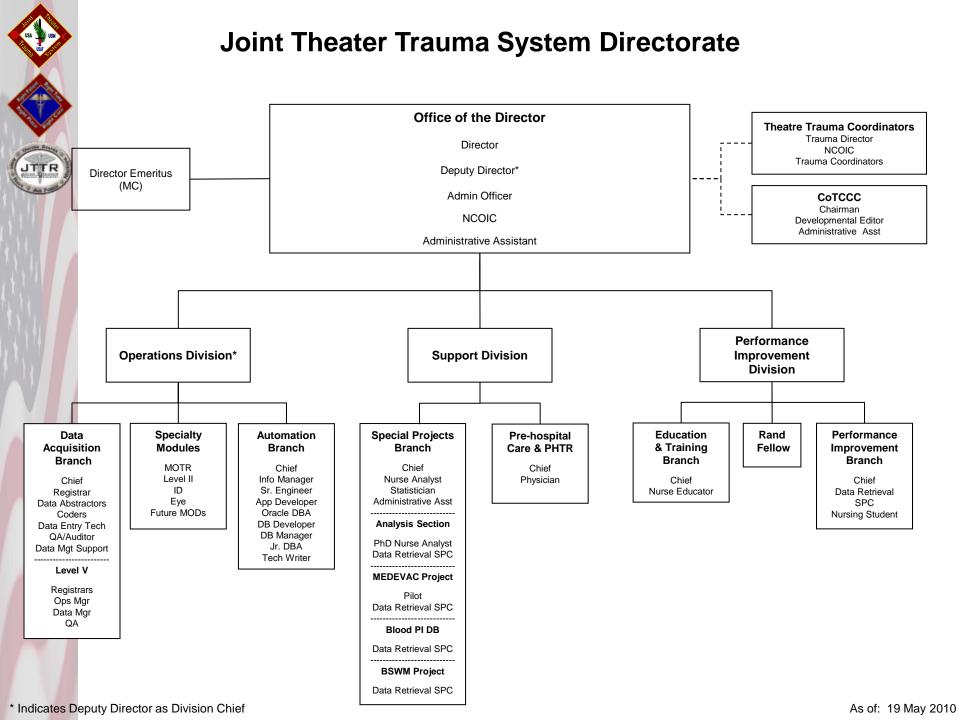
colon appeared dusky so an additional 2-3 cm were resected. The previous suture repair of the sigmoid colon appeared healthy. The L renal fossa and injured psoas muscles were oozing minimally--thrombin soaked gelfoam placed in the wound bed after irrigating with warm saline. R inferior renal pole floating but no expanding R perinephric hematoma seen so Gerota's fascia left intact. Due to previously identified collecting system disruption, closed suction drain placed in the vicinity of the R kidney. No additional injuries were identified the abdomen was irrigated with 6L warm saline and then a temporary abdominal closure was fashioned. He was transported back to the ICU intubated on the same drips as pre-op (neo, low dose propofol, fentanyl).

Plan: monitor labs and hemodynamics--if stable, plan for evacuation via next CCATT mission



The Future







The Future

- Military "White Book"
- COCOM site visits
- Medical Director Fellowship
- Program Manager Fellowship
- TNC Fellowship
- Tri-Service Military manning: Need Navy



Recommendations

Establish the JTTS as a program of record with the Army as Executive Agent and provide long-term funding and spaces to the Army that are sufficient to sustain JTTS operations both during and between periods of conflict. The ongoing presence of the JTTS and JTTR will ensure that the Department does not experience a recurrence of the deficiencies in theater trauma care identified in Operations Desert Shield and Desert Storm.



Recommendations

- Establish the permanent location of the JTTS and JTTR as a part of the US Army Institute of Surgical Research at the Battlefield Health and Trauma Research Institute at Fort Sam Houston, Texas
- The Board further recommends that this issue be reviewed after 18 months to evaluate the action taken on the above recommendations.

