Washington, DC November 14, 2011 The ACS COT Structure and Function







To Serve All With Skill and Fidelity





Committees on Trauma 2007 Blue Book Guide to Organization Objectives and Activities

Vision



The COT strives to be a resource for our profession and other entities, professional, public, and governmental, in topics concerning trauma prevention and care. The COT's major areas of activity should include education, standards of care, quality of patient care, and financial assessment of care. The scope of its activities will be national and international.

Committees on Trauma 2007 Blue Book Guide to Organization Objectives and Activities

Mission



The mission of the COT is to develop and implement meaningful programs for trauma care in local, regional, national, and international arenas. These meaningful programs must include education, professional development, standards of care, assessment of outcome, and financial accountability.

Committees on Trauma 2007 Blue Book Guide to Organization, Objectives and Activities

Leadership in Development of Standards for Trauma Care

Trauma Education

Objectives

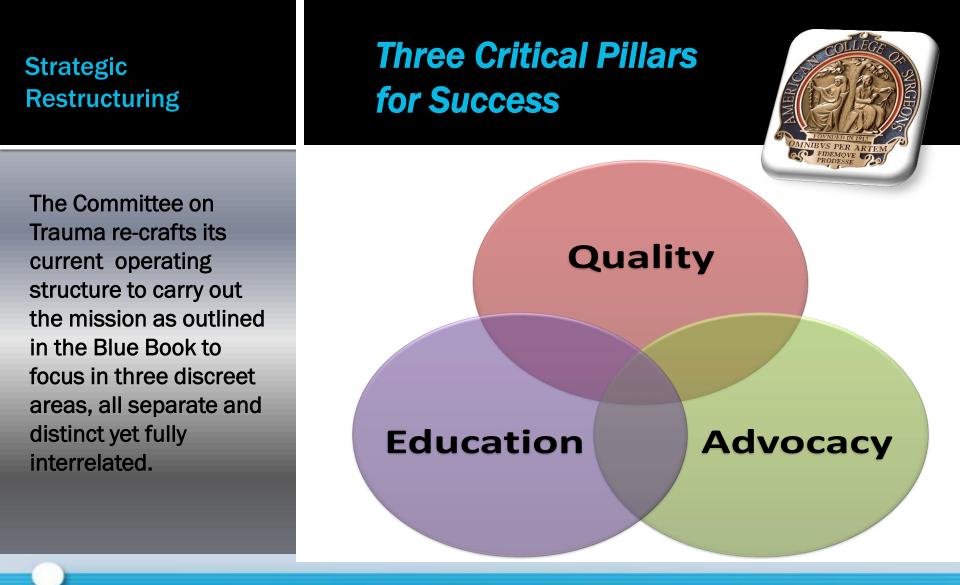
- Develop Measurement Tools for Trauma Hospitals and Inter-hospital Comparison
- Development of Trauma Systems
- Foster and Develop Trauma Prevention
- Develop Trauma Group Relations

Components

Leadership Medical Director •Chair •Vice Chair Membership Information •NTDB NTDS •TQIP •PIPS

Basic Infrastructure





Structure of the American Colle of Surgeons

Education

- ATLS
- PHTLS
- RTTDC
- DMEP
- Surgical Skills
 - ASSET
 - ATOM
- SBI
- Optimal Center
- Congress Courses
- Scudder
- East/West/Mid

Medical Director Chair/Vice Chair Membership

Advocacy

Quality

- Systems
- VRC
- EMS
- Rural
- Disaster
- Prevention

Information Engine

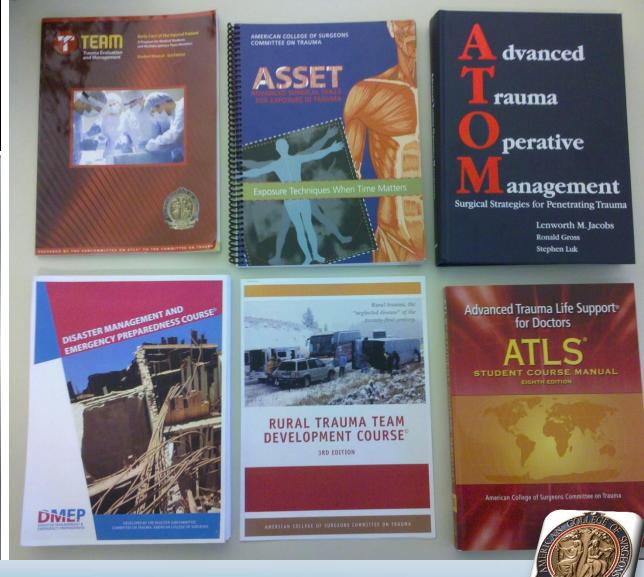
- NTDB TQIP
- PIPS

Info Tech

Tangible Work Product!

"Productivity is never an accident. It is always the result of a commitment to excellence, intelligent planning, and focused effort."

Paul J. Meyer



Resources for Optimal Care of the Injured Patient: 1976-2006



Optimal hospital resources for care of the seriously injured

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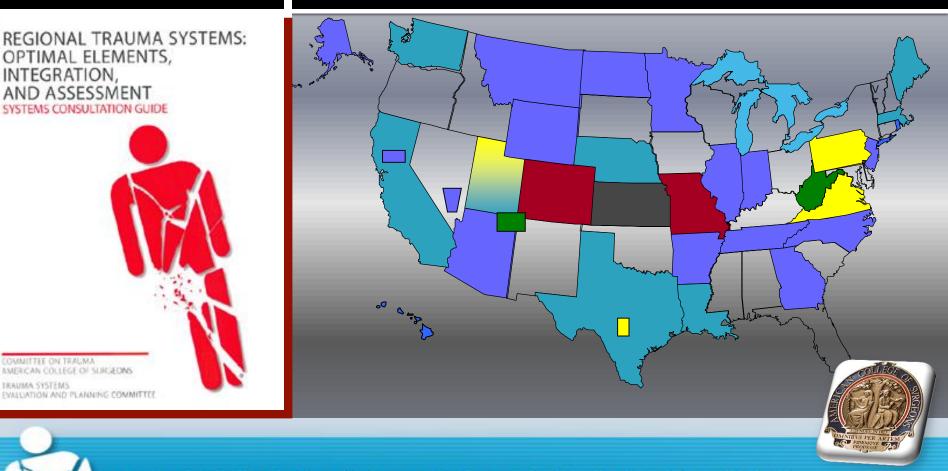
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of the Injured Patient and Appendices A through J

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Tangible Work Product! *Trauma Systems Planning and Evaluation Consultations*



2007 Systems Guide



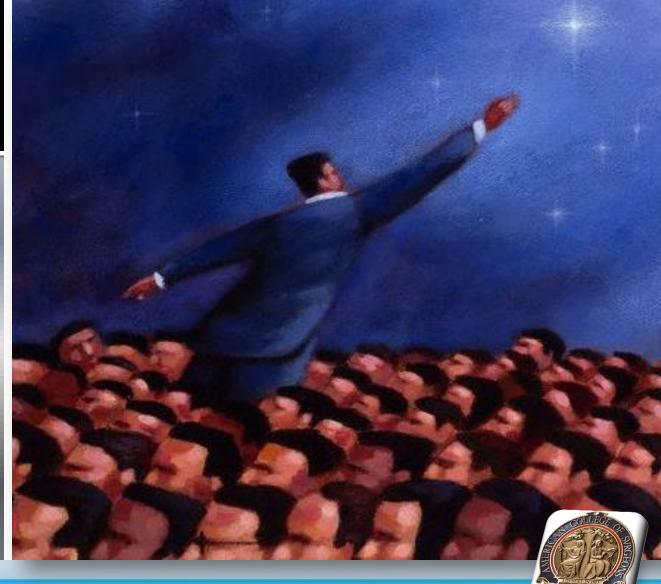
- Assessment: regular and systematic collection and analysis of data to determine status and need for intervention
- Policy Development: establish comprehensive policies to improve health
- Assurance: goals to improve the public's health by providing regulated services



Leadership

"The best executive is the one who has sense enough to pick good people to do what needs to be done, and selfrestraint to keep from meddling with them while they do it."

Theodore Roosevelt



Purple Heart

The United States Military Joint Trauma System Assessment: A Presentation to the Defense Health Board

Washington, DC 14 November 2011

Michael Rotondo, MD, FACS

Chairman, American College of Surgeons Committee on Trauma

The United States Military Joint Trauma System Assessment



A Report Commissioned by the US Central Command Surgeon

Sponsored by Air Force Central Command Surgeon

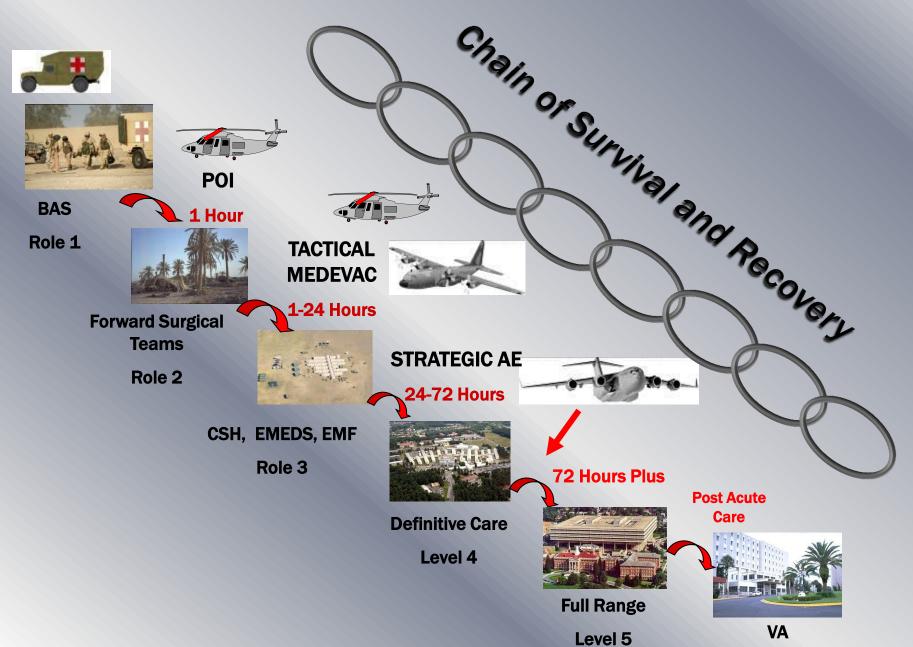


Vision

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



Continuum of Care: 2011



Construct



- Team of trauma system experts visited theater to conduct trauma system review and participate in Theater Trauma Conference
- US CENTCOM SG invitation; US AFCENT SG, US TRANSCOM SG, USAISR JTS, JTTS, and TF MED Support
- Visit Role II/III MTFs and evacuation units 2 12 October 2011
- Provide report of findings and recommendations to US CENTCOM SG

Military Trauma Systems Review Team

•Michael Rotondo, MD, FACS, Professor and Chair, Department of Surgery, The Brody School of Medicine, East Carolina University and Director, Center of Excellence for Trauma and Surgical Critical Care, Chairman, American College of Surgeons, Committee on Trauma

•Thomas Scalea, MD, FACS, Francis X. Kelley, Professor of Trauma, University of Maryland School of Medicine, and Physician and Chief, R. Adams Cowley Shock Trauma Center, Baltimore, MD.

•Lt Col Anne Rizzo, MD, FACS, USAFR, Associate Professor of Surgery, Virginia Commonwealth University, Vice Chair, Department of Surgery and Associate Surgical Residency Program Director; Associate Professor of Surgery, Uniformed Services University of the Health Sciences.

•Kathleen Martin, MSN, RN, Trauma Nurse Director, Landstuhl Regional Medical Center, Germany and is the Society of Trauma Nurses' Board of Directors' Chair of the Trauma Outcomes and Performance Improvement Committee.

•**Col Jeffrey Bailey, MD, FACS**, Director-Designate, Joint Trauma System, US Army Institute of Surgical Research (USAISR)

Military Trauma Systems Review Team



The Report to US CENTCOM SG

A strategic report to provide a platform for tactical development for the future direction of the Joint Trauma System (JTS), the US CENTCOM and future Joint Theater Trauma Systems (JTTS), including:

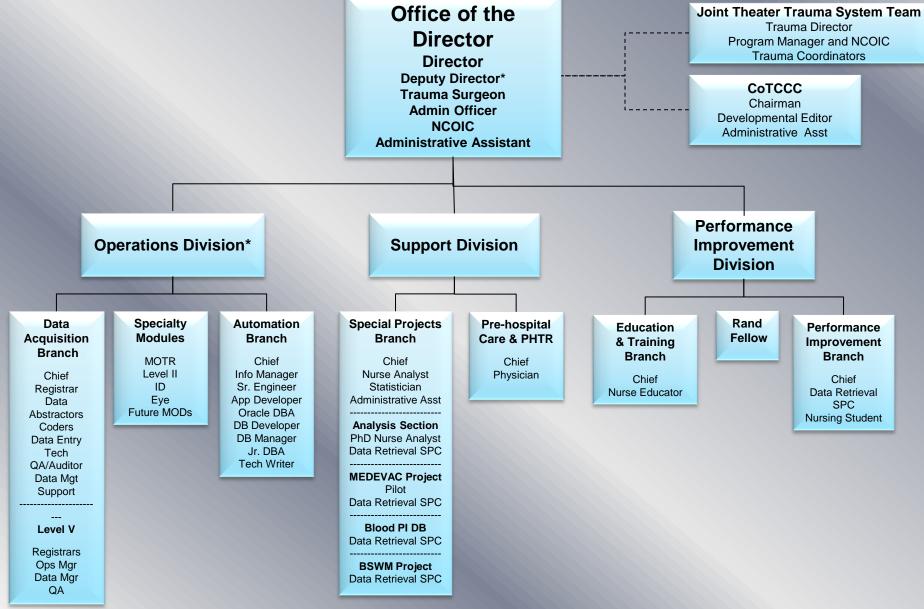
- Optimal elements
- Integration
- Sustainment

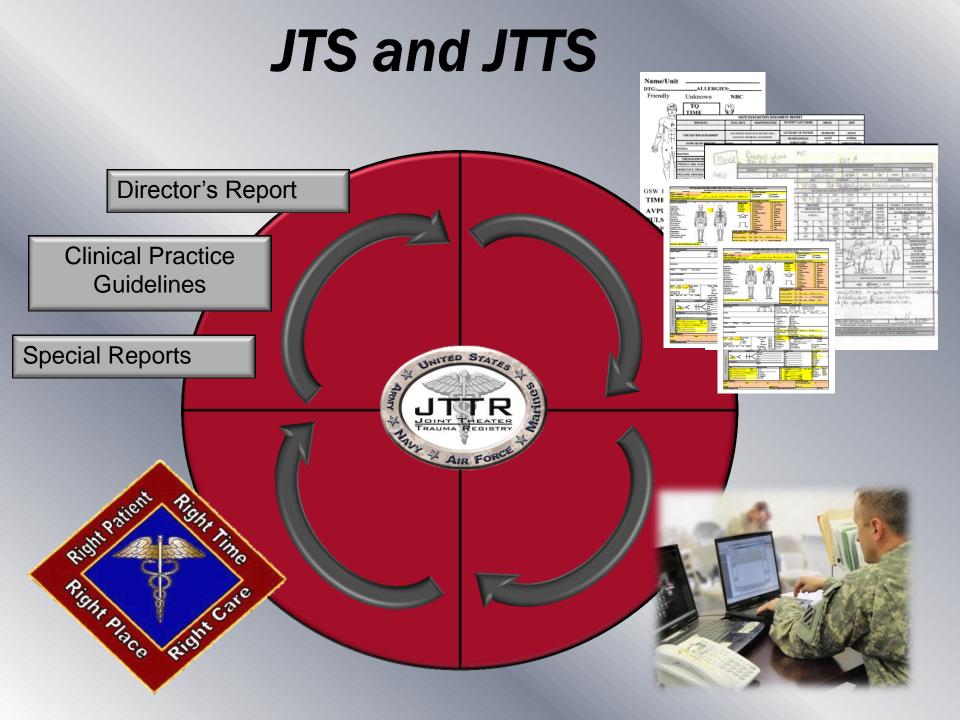
Background



- US CENTCOM "JTTS" implemented to structure trauma care in theater
- Initial efforts focused on theater ops: expanded to include CONUS care
- Continuity and guidance for JTTS at USAISR
- USAISR organization designated "JTS" to distinguish its global mission

USAISR Joint Trauma System Directorate: 2011





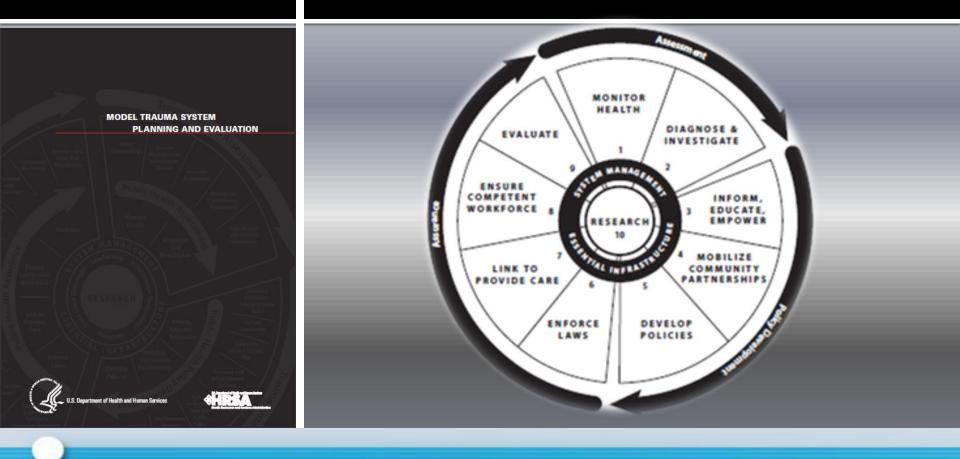
Overarching Principles: Systems Theory

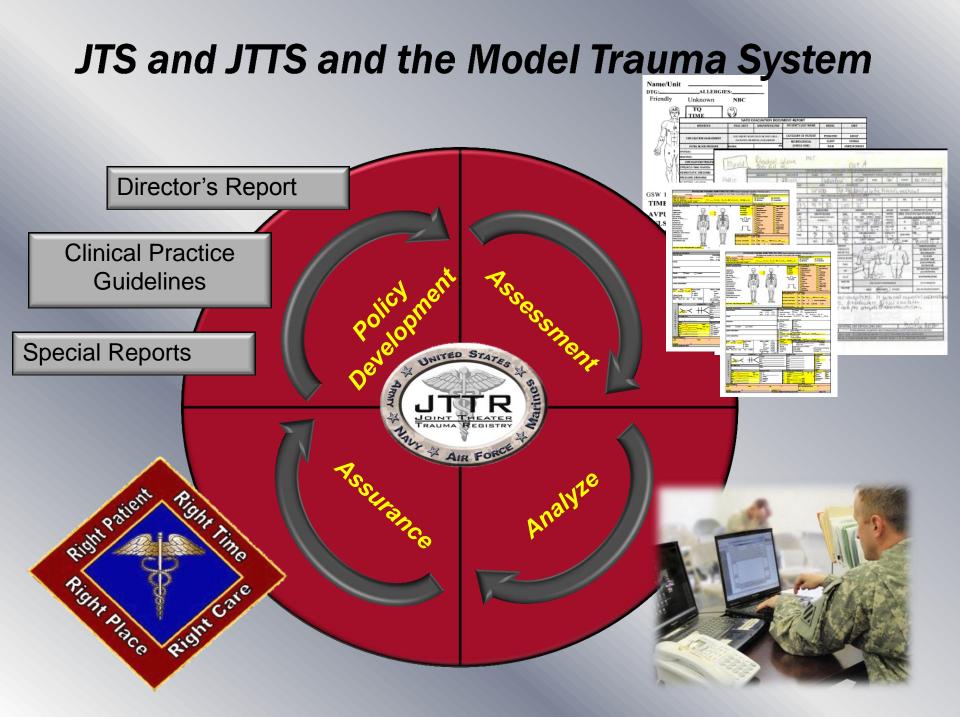


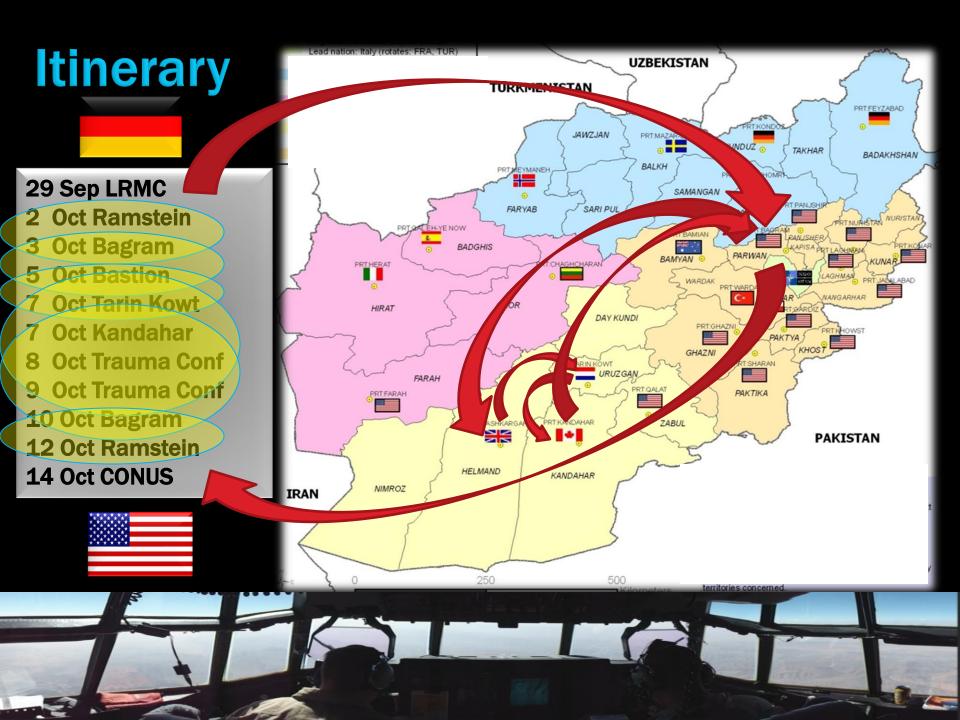
- Elemental components as well as the interaction
 those components as it relates to primary system function.
- Even if the elements function effectively, it does NOT necessarily mean that the system is functioning optimally.
- The system can only function optimally if individual elements are linked through infrastructure that demonstrates effective relational function among elements.



Overarching Principles: Systems Theory **Assessment – Policy Development – Assurance**







Units Visited/Activities

JOINT OPERATING B

Bagram Air Field Craig JTH JTTS TF 44 MED A Tarin Kowt Forward Surgical Element Role II

Camp Leatherneck RC SW Surgeon

Camp Bastion Role III CASF MERT Pedro C-130 Fever Kandahar Air Field Role III Trauma Conference



Clinical Excellence

Obvious at the Elemental/Component Level

Committed leadership Committed clinicians Teamwork

- Damage Control Approach
- CABC
- MDR Microbes



 Fully integrated infrastructure
 Lead agency to knit the components together



Priority

The war fighters control the battle space and require ultimate flexibility to achieve their objectives.

Wounded warriors must receive the responsive, nimble state of the art care regardless of distance, geography, weather or tactical situation.

These are not mutually exclusive...both require resources.

Critical Observations and Recommendations

JTS Authority



- Communication and Cohesion
- Informatics
- Performance Improvement
- Clinical Investigation
- Training

JTS Authority



Observations:

- JTS has no authority to develop or set policy or standards for trauma care
- No authority to implement a verification process for facilities or the system
- Does not function as DoD level asset

JTS Authority

Recommendations:



- Establish JTS as the statutory lead agency and DOD authority to set policy and enforce standards of excellence in the care of the injured.
- DOD delegated authority to recommend external system review
- JTS should be elevated within the DOD in order to align its position with its joint and global responsibilities



Communication and Cohesion

Observations:



- Clinical personnel spend large volumes of time performing clerical tasks reducing efficiency, delaying transfer and creating frustration
- Transmission of important clinical information like radiographs is difficult
- Clinicians encounter resistance when attempting to transfer patients

Communication and Cohesion

Recommendations:

- Clinical information sharing between colleagues and the every other weekly trauma directors' conference should be consolidated/enhanced
- Trauma conferences such as those held recently at Kandahar is one such example that significantly enhanced system cohesion; should be replicated
 VTC should be focused on providing patient outcomes
 - to all providers as a potent communication forum

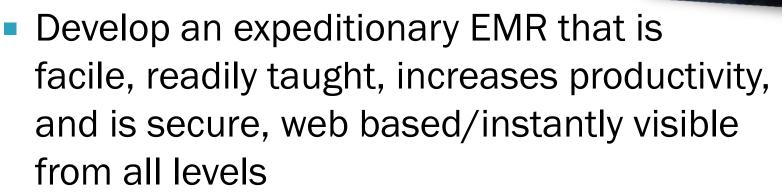
Informatics

Observations:

- There is no unified, contiguous electronic health record across the military continuum of care
- Limited capability for consistent collection of data on all injured war fighters across the continuum
- Capabilities for performance improvement across the system are primitive at best

Informatics

Recommendations:



- Resource to allow concurrent data collection across full continuum
- Enhance JTTR capability for real time PI

Performance Improvement

Observations:

- The trauma performance improvement and patient safety process is fragmented
- Efforts to implement rudimentary trauma related PI were present at each military trauma facility
- Varied evidence of effective communication of PI events or trends across the system
- No clear metric to link performance for the optimal outcomes

Performance Improvement

Recommendations:

- The JTS must develop an overarching PI and Patient Safety Plan
- System wide process for event identification, development of corrective action plans, methods of monitoring, reevaluation and bench-marking
- Enhance accountability for performance related to care of injured

Clinical Investigation

Observations:

- The interface between PI and research is indistinct
- The protocol execution process is lengthy
- The investigation proposal process is poorly understood
- There are multiple DB, not all communicate
- The JTS does not have executive oversight of trauma related clinical investigation
- There is little or no relationship between the JTS, JTTS and the IRB process

Clinical Investigation

Recommendations:

- The PI and research missions and proposal process must be reconciled to allow for unencumbered investigation
- The IRB process should be significantly streamlined
- All requests for clinically important data should be coordinated with JTS Director who should be charged with oversight of DoD trauma related clinical investigation



Pre-Deployment Training

Observations:

- There is no consistent pre-deployment training for medical personnel
- Current training is largely focused on combat skills
- Tactical "matching" of clinical expertise with deployed assignment could be improved
- Trauma training that exists focuses on individual, as opposed to team training
- The JTS has no authority to specify pre-deployment trauma training requirements

Pre-Deployment Training

Recommendations:

- Improve balance of combat skills and trauma training
- Align specialty and skill with deployed responsibility
- Establish consistent pre-deployment training to include leadership and clinical personnel
- Scale training to combat casualty care and system experience, knowledge, and skill
- Trauma directors at every Role 3 facility should have leadership and combat surgery experience
- The JTS should have oversight on standards of predeployment trauma training

Team Transition Training

EURODE IN FOR FROMEWORK

Observations:

- Each theater of operation has a unique role, terrain limitations and institution specific practices
- Effective team transition is not always possible due to logistics

Team Transition Training



Recommendations:

Units should consistently develop a manual or equivalent repository of updated institution specific information
Hand off between providers should be assured with sufficient time for effective team transition

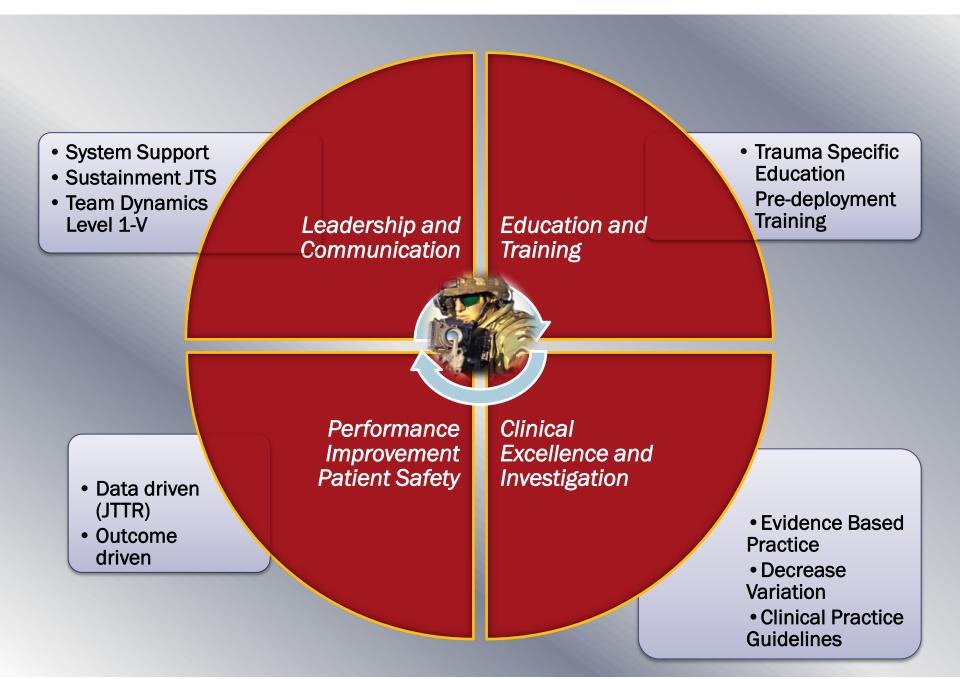
Conclusions

 Seek support of the leadership of the uniformed services, and civilian leadership in the DoD, for fundamental change in the command structure to enable the JTS as the lead agency for assessment – policy development – assurance

The way ahead...

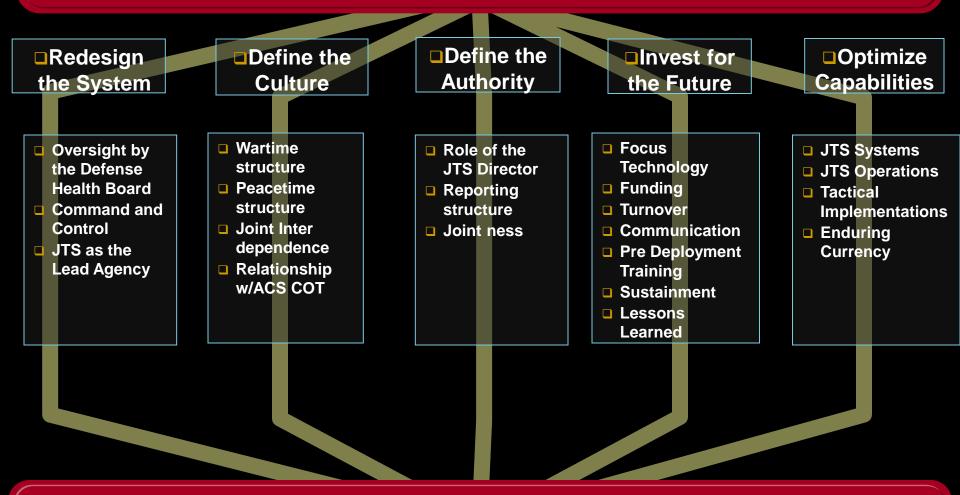
- Obtain leadership commitment
 - Transform the Joint Trauma System
 - Sustain the JTS beyond transformation

Obtain Commitment in Key Domains



Transform the US Joint Trauma System

A Joint Trauma Performance Enhancement and Clinical Excellence Campaign



right Patient, right Place, right Time, right Care

Why should the JTS Lead?

Military medical commanders at all levels, from Level II to Level V facilities are excellent leaders and have facilitated some of the JTTS work. Those commanders come from a great variety of backgrounds and are called upon to serve at these levels due to their leadership skills. While their focus is on achieving the mission to field the best possible health care center, their leadership training paradigm is appropriately focused on the essentials of personnel, logistics, execution, order and discipline. JTS excels at the current state of trauma affairs, has the corporate memory of all the health care teams that have deployed and re-deployed, the most current and the comparative historical data trends and all

versions of the Clinical Practice Guidelines.

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Committee on Trauma

The Next Steps



- Complete the document entitled: "Joint Trauma System: Development, Conceptual Framework, and Optimal Elements"; publish as ACS manual
- Create a JTTS Operations "Field Manual": describe structure, function and tactical deployment of JTTS
- Create a Tactical Implementation Plan to achieve the strategic goals with milestones for the immediate (6 months), intermediate (18 months) and long term (36 months); expectation that this plan will be completed by the end of three years



Recognition and Thanks

- US Central Command Surgeon
- Air Force Central Command Surgeon
- US Transportation Command Surgeon
- Air Mobility Command Surgeon
- Office of the USAF Surgeon General
- Office of the Joint Surgeon
- USAISR Joint Trauma System
- US Central Command Joint Theater Trauma System
- Command and Trauma Team Landstuhl Regional MC

- Task Force 44 MED A
- US Army Institute of Surgical Research (USAISR)
- Command and staff Craig Joint Theater Hospital
- Bastion Role III and CASF
- RC SW Command Surgeon
- UK MERT
- USAF Pararescue
- "Fever" Ops
- "Weasel" Ops
- TF Thunder
- Tarin Kowt FSE and Role II
- Kandahar Role III