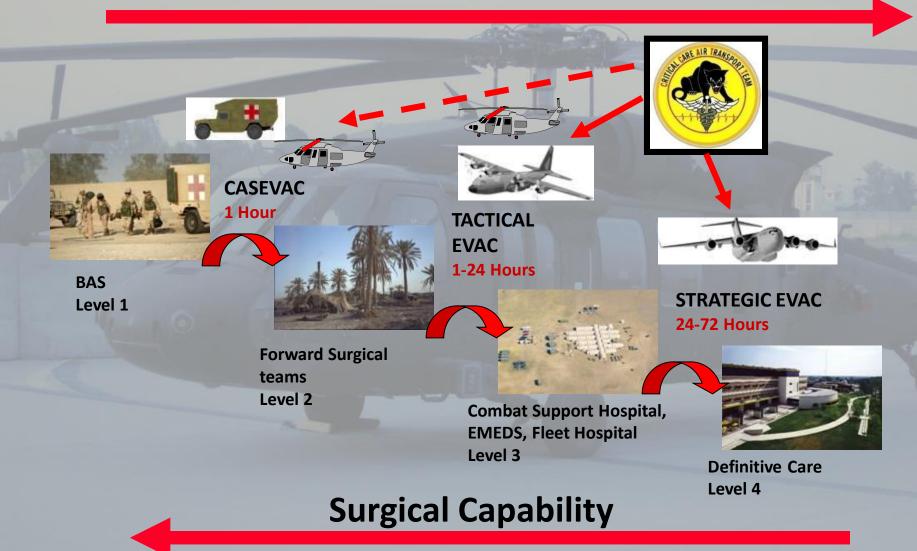
Continuous (En Route) Care

Current Route from Injury to Definitive Care



Components of care

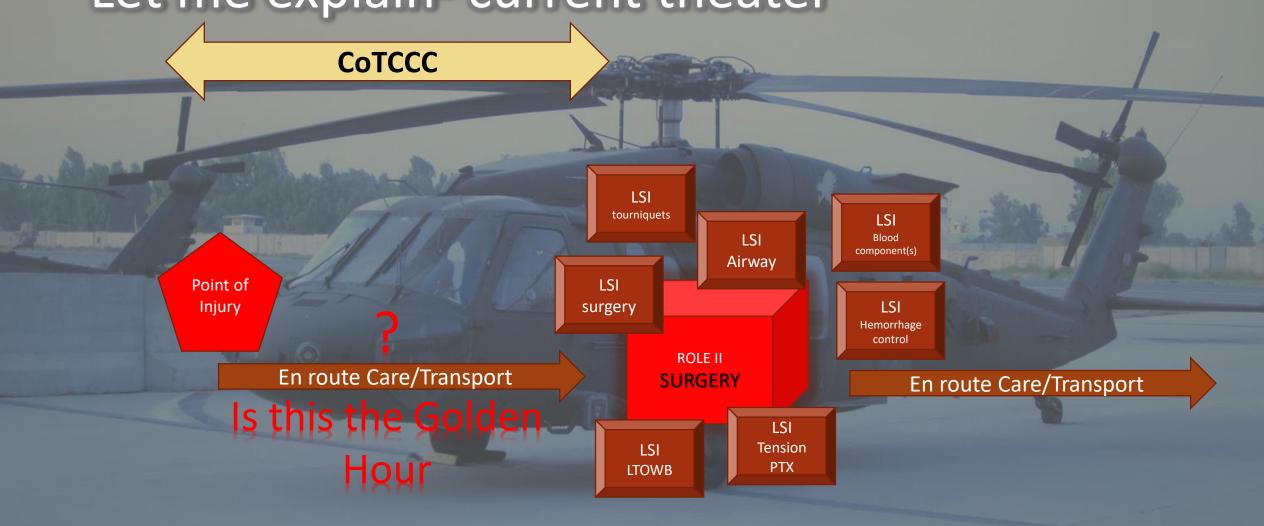
- 1.We learned well- are we static and (perhaps complacent)?
- 2.We must not plan based upon the past
- 3.Lightweight/modular/mobile/core capabilities and Life Saving Interventions
- 4.I will try to make my case for the opportunities at hand

Myths and stretches

- There is a Golden _____
 (Hour, time span, opportunity, minute, day)
- The Myth of the Golden Hour is leveraging an enormous cost on the Medical Corps
- •FACT- previous data has affirmed that 87% of our casualties die before reaching a Surgically capable facility
- We are smart enough to sort this out—but must not shrink from the opportunity to break a few paradigms and assumptions

Let me explain- current theater **CASEVAC** LSI LSI Blood **Airway** 1 Hour component(s) **TACTICAL** LSI LSI **EVAC** Tension tourniquets PTX LSI BAS LSI Point of surgery LSI EGIC EVAC Level 1 <u>Hemorrhage</u> **LTOWB** Injury control advanced ours medical/surgical care En route Care/Transport En route Care/Transport Is this the Golden Combat Support Hospital, Hour **EMEDS, Fleet Hospital** Level 3 **Definitive Care** Level 4 Surgical Canability

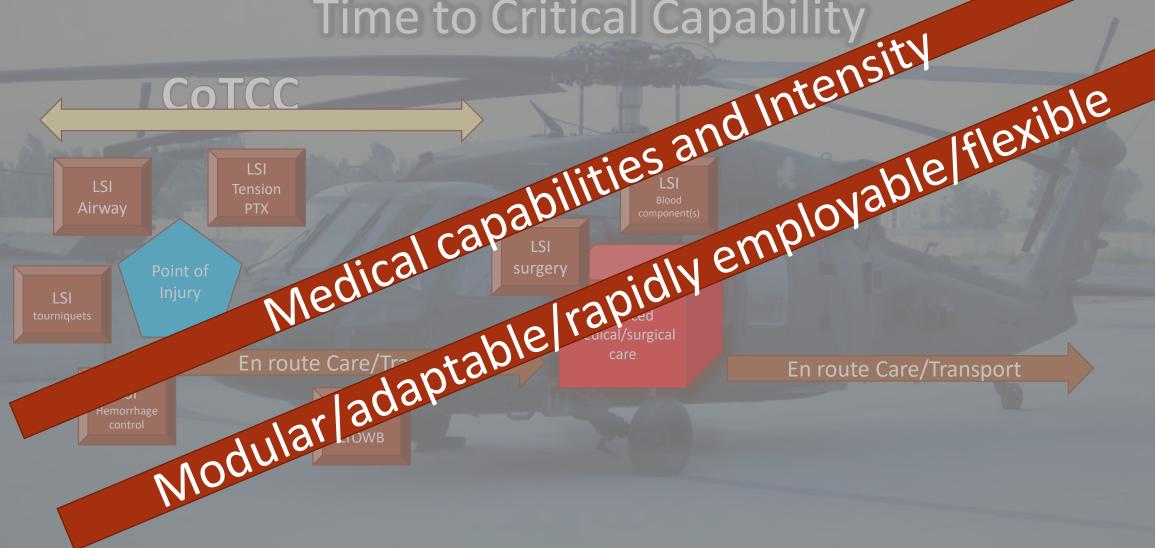
Let me explain- current theater



Opportunity

- Future analysis of death(s) on the battlefield need to start afresh and abandon the "Golden Hour paradigm
- Analyze data on
 - Why
 - When
 - Where
- Example
 - · Examine casualty data based upon if, and how many LSI's were performed from POI onward
 - When and Where did they occur
 - When death occurs; how many LSI were performed
- Match these casualties who had LSI prior to arrival at Role II to those that did not
- Some LSI(s) may be anticipated to extend survival more than others

The Golden Hour ---???????? Or Time to Critical Capability



Opportunity -

- •We (care providers) must responsibly report these opportunities
- To do so requires data
 - Data acquisition is the Achilles heel of the DoDTR and our ability to analyze
 - < 50% of casualties have a CoTCCC card filed
 - The data quality of the DoDTR may be seriously wanting; not for lack of effort but as the result of the enormous challenges of collecting data in a combat zone
 - Care providers
 - Data capture (pencil and piece of paper) ?Seriously?
 - Data transmission
 - Data verification

The Setting





Damage Control-extend the survival



By any means- Enroute Care



Role III – Incredibly capable, but often because of force of personality rather than sustained planning







Come on folks- help me here



The VTC is an incredibly powerful tool



CCATT= Enroute Care







What we don't know(data) – hurts them

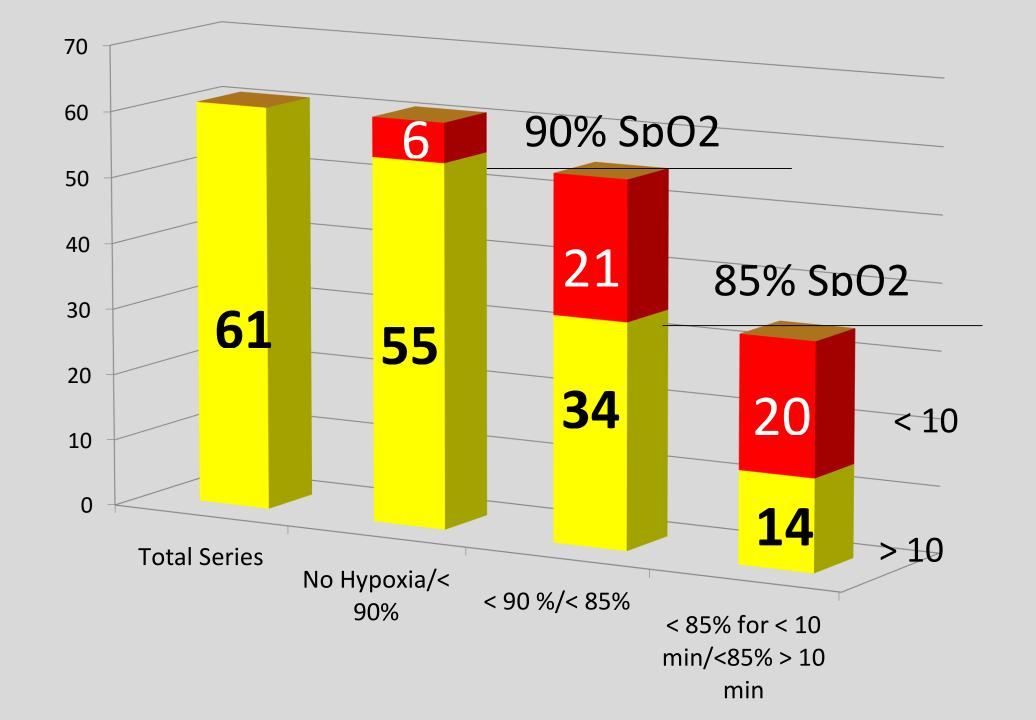


- •In over 8,000 CCATT transports the reported incidence of hypoxia is < 1%
- •That data comes from a 3899 report form filed by hand at the end of the mission
- What does a care provider do when hypoxia occurs— they fix it; they don't record it

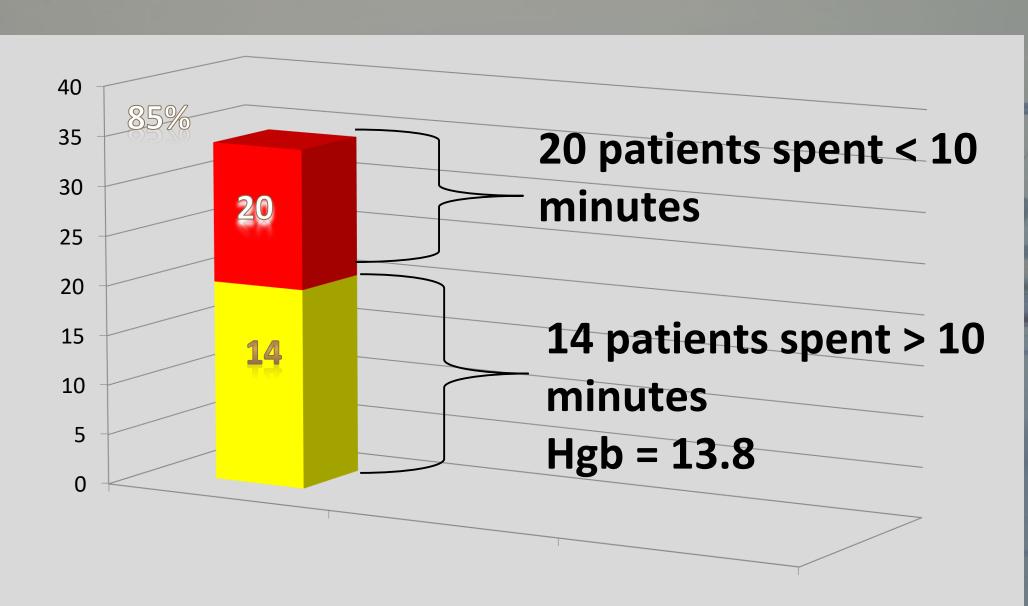
Scope of Study

- Utilize Digital Oximetry to continuously monitor Oxygen saturation and Hgb during ERC transport from theater to Landstuhl Regional Medical Center
- Observe patterns of oxygen saturation during transport and relation of Hgb to pulse rate
- Intentionally designed as a low risk protocol





All Patients < 85%

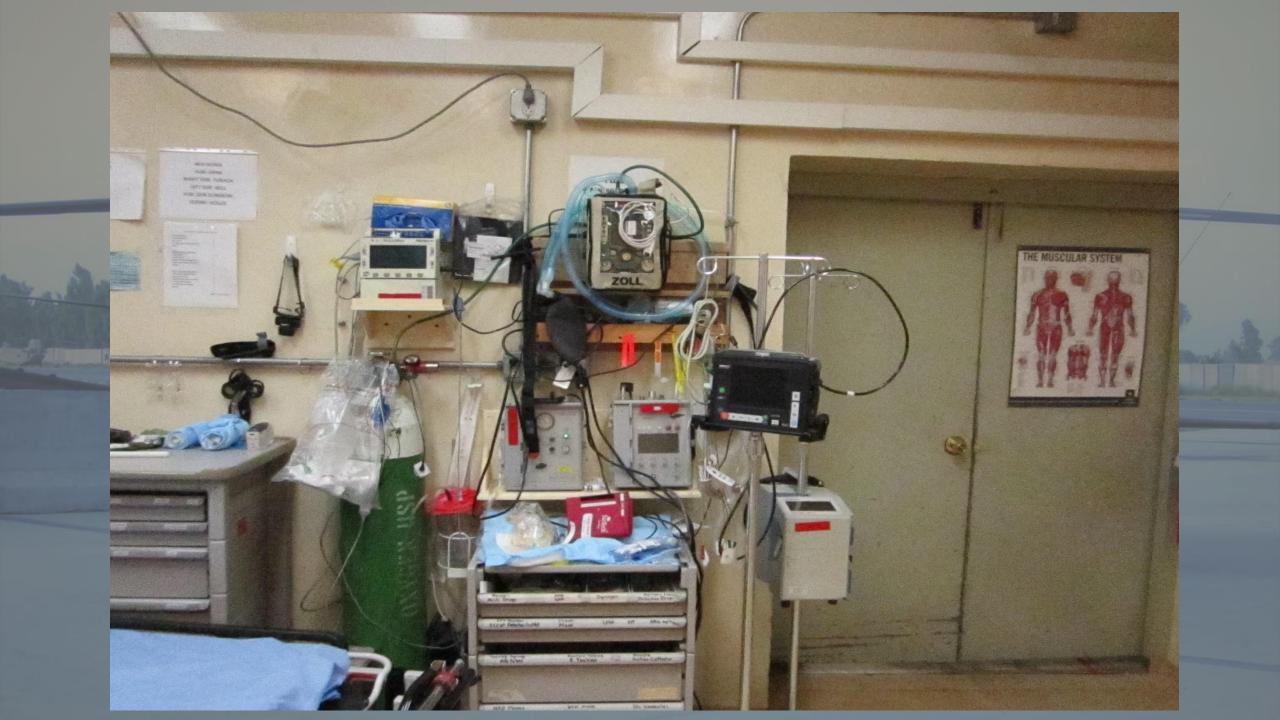


Opportunities

- Fix the disconnect between equipment acquisition and procurement
- Demand that all future equipment must.....
 - Continuously capture and forward transmit data
 - Be infinitely upgradeable rather than replaced
- My poor understanding is that we have two hurdles
 - Translating need to Medical logistics acquisition and not having them down select on the basis of cost
 - Fighting for money from the line who is deciding whether to buy bombs, bullets or tanks versus new medical equipment







Which has better instrumentation?



The Challenge is there—will we let it slip?





EMBARGOED

Not for public release before

FRIDAY, JUNE 17, 2016, AT 11:00 A.M. (ET)

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