

# Deployed Exercise Using T6 Health Systems Mobile Application Electronic Trauma Resuscitation Documentation and Decision Support



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# **OBJECTIVES**

- Current trauma resuscitation are recorded/documented on handwritten 5-page form in real time in ED at all roles of care
- Document later scanned and uploaded into EHR
- Often results in lost records or delayed availability
- Scanned documents not searchable/downloadable into dataset
- To improve accessibility, implemented software application which mirrors handwritten process in electronic format
- Documentation was conducted on a hand-held device:
  - assisted with data visualization and real time tracking
  - prompted clinical practice guideline compliance
  - provided coding/grading of injuries and patient scoring relevant to the trauma registry
  - ability to export this record in a searchable PDF document that can be uploaded to the patient EHR

### **METHODS**

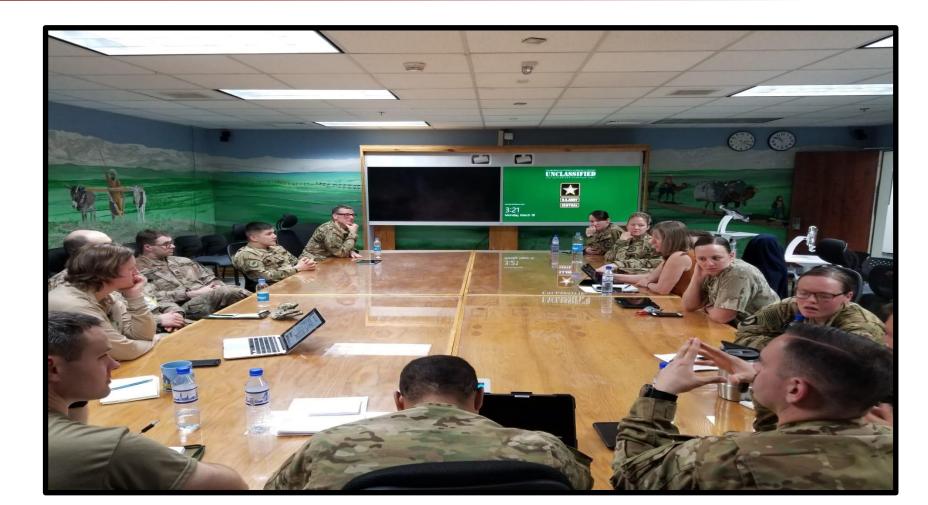
- Set up hardware/ software at Role III hospital in Afghanistan
- Conducted orientation and table-top exercise with participants from various roles of care
- Assess the feasibility/ usability of application across the theater continuum of care



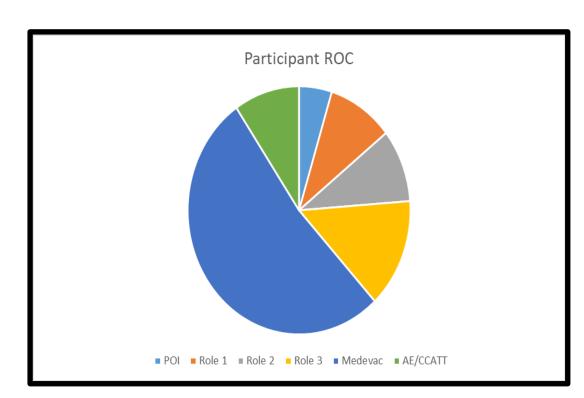


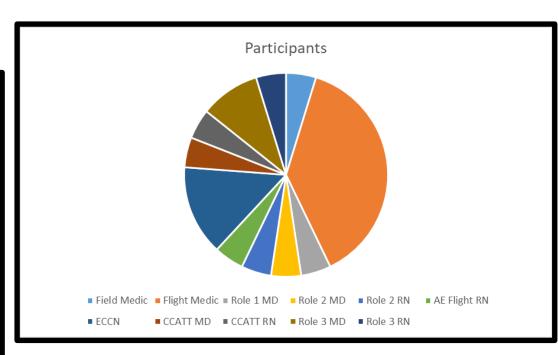
# **RESULTS**

Table top
exercise at
CJTH Role 3
hospital, BAF,
Afghanistan



**Key Point** 





<b>.</b>	1 1 1
Medic (POI/Medevac)	Current operational environment and capabilities
Medic (POI)	Connectivity/pt hand-off ("WiFi-like", bluetooth, plug/download, secure WiFi
Medic (POI/Medevac)	Need to incorporate application into formal training courses
Medevac/ AE/ CCATT	Audio recording would be useful
Medevac/AE	Ability to scan documents and take photos important
Medic (POI)	Need to be easy to use by non-medical POI prsnl entering information
Medic	TCCC & MIST at POI should use smaller device (iPad mini/ iPhone)
AE	Minimal documentation, have iPads, if synchronizes with EHR then useful
CCATT	All handwritten, difficult to track/maintain; ability to document MIST, VS, Tx
All	Sections based on skill level; not all alerts needed for each; medic/RN/MD
All	Protocols and algorithms ties to roles of care (configuration)
RN/MD	Info forward populate, ability to sign off each section, defined editing capes
Medics, Role I	Integration of PFC guidelines after set time
Medevac/ AE/ CCATT	Integration of various monitors to feed info (vital signs) into application

# CONCLUSION

- Revealed the following:
  - areas of potential integration of POI devices and applications
  - configuration modifications to accommodate the combat environment
  - technological aspects that require mitigation for the application to function in the deployed environment.
- Helped define the requirements of a mobile application that can consolidate continuum of combat casualty care of patients into one record.
- Next phase is to determine if the application effectively captures all patient data, conducts digital electronic health record upload, provides real-time clinical decision support tools, and allows trauma registry data import by trialing on the network

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This study has been conducted in a manner approved by the Medical Research and Materiels Command.