## TATRC TIMES

## Joint Team Researches Battlefield Virtual Health of the Future

joint team of collaborators came together at Camp Bullis, TX from 8 – 12 April to review and provide initial feedback on TATRC's Medical Data Cloud (MDC) research study by examining multiple medical functional areas enhanced through innovative technology solutions. The team included:

- TATRC's Medical Intelligent Systems Lab (MISL)
- The U.S. Army Virtual Medical Center (VMC)
- Marine Corps Warfighting Laboratory (MCWL)
- Combat Capabilities Development Command Aviation & Missile Center Systems Simulation, Software and Integration Directorate (CCDC AMC S3I)
- Combat Capabilities Development Command, Control, Communications, Computers, Combat Systems, Intelligence, Surveillance, and Reconnaissance Center Command, Power and Integration Directorate (CCDC C5ISR CP&ID)
- Air Force Research Laboratory (AFRL)

The multi-service team came together over four days to research and study mobile health solutions to support battlefield medicine. The first two days were focused on equipment set-up and the establishment of network systems. On the third day, personnel were trained on the utilization of the systems, culminating with the research testing on the final day. Mobile Medics (MM) from the VMC utilized AFRL's Battlefield Assisted Trauma Distributed Observation Kit (BATDOK) System to provide simulated patient data over simulated classified radio network



Figure 1: MM feed data into BATDOK.

for a medical dashboard on CCDC AMC S3I's cloud-based medical information exchange portal known as the MDC and MCWL's Medical Common Operating Picture (MedCOP). Providers from VMC's Advanced Virtual Support for Operational Forces (ADVISOR) TeleConsultation program viewed live, real-time data through a web-based interface. Some of the providers were located on site, while four other providers were located across CONUS. Brooke Army Medical Center's Chief of Logistics and Chief of Patient Administration provided expert feedback on logistics and medical regulating to improve future iterations of this capability. Michael Kile, Operational Readiness Program Manager at the Army Virtual MEDCEN stated, "This initial research concept offers the potential to provide a mobile capability to allow for Virtual Health solutions to connect forward



Figure 2: Providers viewing the dashboard on the MDC.



Figure 3: TATRC's James Beach receives feedback from an ADVISOR provider.

deployed medical personnel to Role I, II, and III Medical Treatment Facility personnel for bi-directional medical information exchange supporting telementoring, teleconsultation, and remote monitoring."

"This collaborative research event was a tremendous success. The joint partnership and idea exchange provided researchers with a large amount of information and concepts to refine the products, and make them more user friendly and relevant for medical needs in the current operational space," said Mr. James Beach, Project Manager from TATRC's MISL.