

TATRC Staff Participates in AHS Mission Command & Interoperability in MDB Seminar

Two key staff members from TATRC's Medical Intelligent Systems Lab (MISL) were invited as guest speakers to present at the Army Health System Mission Command and Interoperability in Multi-Domain Battle (MDB) Seminar, 3-6 April, at the Health Readiness Center of Excellence (HRCoE) at Joint Base San Antonio, TX.

The purpose of the seminar was to inform the Army Campaign of Learning leadership that focuses on achieving overmatch in a MDB through enhanced interoperability with joint, inter-organizational, and multinational (JIM) partners. This event explored Joint Interagency Multi-National (JIM) health system interoperability for medical mission command, plans and operations, treatment, evacuation, logistics, patient movement and medical regulation during MDB.

There were about 60 seminar participants which included diverse representation from the Army, Air Force, Navy, and Marine Corps in addition to participants from the United Kingdom and Australia. There were over 20 presenters to include a British Liaison Officer and an Australian Exchange Officer. MG Brian Lein, Commanding General, AMEDD Center & School, HRCoE, kicked off the four-day seminar.

Seminar participants received high-level plenary information briefs and participated in facilitated working groups. Facilitators led discussions capturing comments and insights to support the seminar end-state and outputs.

The seminar focused on six key objectives that included:

- Examine mission command and interoperability challenges to include varying interpretations of interoperability, differences in mission command, culture, and language
- Determine areas required for JIM health system interoperability for MDB to include protocols and policies; compatibility; and requirements for standardized training, skills maintenance and credentialing
- Identify requirements for JIM uninterrupted mission command and an integrated Medical Common Operating Picture
- Identify forward medical capability requirements for MDB
- Identify early entry medical capability requirements for MDB
- Identify opportunities to explore and exercise JIM health system interoperability

Mr. Nathan Fisher, Project Manager for Medical Robotic and Autonomous System (RAS) briefed the potential operational benefits of utilizing future RAS systems for medical applications within the MDB operational framework. He stressed the importance of integration of medical capabilities



with multi-purpose Army RAS platforms and the need to promote system interoperability and information exchange not only between medical and non-medical assets, but also between U.S. forces and JIM partners to successfully address some of the challenges imposed by the MDB concept.

Mr. Thomas Bigott, the Research and Development Information Technology Project Manager provided a detailed presentation entitled: "Ongoing Research in Operational Telemedicine at the Tactical Edge" focusing on MISL's past and ongoing research in data collection at the point of injury (POI), medical communications prototype technologies for the theater – moving casualty information from POI to a theater cloud-based electronic health record thereby making that information available to Theater medical personnel; as well as the organization and ongoing efforts of TATRC's Virtual Health Support Office to support the Army Surgeon General, CONUS and OCONUS Virtual Health and operational telemedicine applications worldwide. Mr. Bigott stated, "This was an important seminar for TATRC to attend and be a part of as the seminar focused on expected technologies for the U.S. military between 2030 and 2050. Typically, TATRC has developed technologies with a five to ten year horizon; with its new orientation on technology research for 2030 and beyond, TATRC is also now focusing on more visionary technologies for which research must be initiated decades before they are used in combat." ■■■