New CRADA Agreement in Place with Sensogram Technologies, LTD

he Operational Telemedicine team under TATRC, pursues research objectives that support medical data exchanges of information for Tactical Combat Casualty Care (TC3) in the Prolonged Field Care environment to enhance the delivery of healthcare by military medical personnel from the point of need throughout the continuum of care in the operational environment to a Role III facility. The enhancements range from capabilities local to the care provider, virtual health initiatives, as well as cloudbased data exchanges. Examples of local capabilities include the ability for a care provider to be able to monitor multiple patients with small medical devices, such as the different technologies within the SensoTOUCH Platform family, that help populate care documentation, inform medical decision support systems, and exchange of the medical information with other local and remote medical providers . The virtual health initiatives would utilize the information gathered at the local level to accurately inform remote medical specialists and experts of a patient's condition in a rapid fashion. This would maximize teleconsultation or telementoring data exchanges, versus exchange of patient condition information that is required to inform the medical direction and guidance. These data exchanges would occur over cloud-based technologies that provide additional benefit in ease of dissemination of information as well as reducing the maintenance footprint.

In August 2017, TATRC completed a Cooperative Research and Development Agreement (CRADA) with Sensogram Technologies to conduct an early evaluation of the SensoTOUCH platform's Ring form factor in a military representative field environment to assess the suitability of technologies under development and to obtain feedback from uniformed military medical personnel. One test participant wrote, "Size, BP/P/R/ SpO2... [in] The Ring... Wow! This is awesome!" Needless to say, the SensoTOUCH platform was received positively by the uniformed military medical personnel, resulting in the desire for continuation of additional cooperative research to assess the SensoTOUCH platform in different environments.

With support from both the U.S. Special Operations Command (SOCOM) and Project Manager, Medical Evacuation Mission Equipment Package, TATRC and Sensogram Technologies formalized the follow-on CRADA on 21 November



2017 and formed a working group consisting of other DoD partners. These partners include the SOCOM, U.S. Army Medical Evacuation Proponency, U.S. Army Medical Material Agency, U.S. Air Force Research Laboratory's BATDOK program, and the Naval Surface Warfare Center Dahlgren Division.

In addition to utilization of the small form factor SensoTOUCH platform for physiological status monitoring, TATRC is planning to explore the use of the SensoTOUCH platform for patient identification and for transfer of patient medical information contained in the electronic Tactical Combat Casualty Care (TC3) card. TATRC is working with the different Department of Defense partners to conduct research events to assess the SensoTOUCH platform in operational environments. With approved Defense Health Program 6.7 funding and sponsorship from Program Executive Office Aviation, TATRC will be able to further assess the military utility of the SensoTOUCH platform as a small form factor physiological status monitor in military exercises, such as Island Marauder and the upcoming Network Integration Exercise as part of their AeroMedNet initiatives.