mHIC’s Home Diabetic Study Update: Mobile Application Design Features

The TATRC mHIC team has completed an assessment of the required and necessary features for a home health component to the secure mobile communication environment (MHCE system) and its secure mCare mobile app. Presently, the mobile code is being compiled to achieve all of the new functionality requirements. New features to the mobile interface include:

• A dedicated section of the application to access all the aggregated information from personal devices, including a glucometer, blood pressure cuff, weight scale and activity tracker.
• Options to upload data from a personal device or provide manual entries.
• Comparison displays of data from the four devices on a weekly basis.
• Detailed, graphical data for a single day, 7 day and/or 30 day timeframe.
• Ability to expand complex graphs for easier viewing on a mobile device.
• Ability to customize each graph by turning on and off data field displays.

• The ability to enter notes and data classifications, and display that information from hover boxes over the graphs.
• Default and customized data ranges to help patients determine if their lifestyle choices are making a difference in their clinical measurements.

The mHIC team is still in the initial phases of building the app itself. This phase is scheduled to be completed in August 2016, and will be followed by an assessment both at Madigan Army Medical Center (MAMC) and at Nellis Air Force Base (AFB) before moving into the second phase of actual patient use.

The TATRC mHIC team is diligently working in concert with the Patient Centered Medical Home (PCMH) teams at MAMC and Nellis AFB as part of a larger partnership with the Clemson University School of Public Health. This effort is funded by the Joint Program Committee – 1.

Examples of screenshots featuring the new functionality and graphical displays of a user’s data.