MyACTome™ MOBILE ASSESSMENT APP

MyACTome™ is a smartphone-based software solution that provides a personalized digital fingerprint of an individual's fall risk and how that fall risk may be changing over time. MyACTome™ assesses baseline movement patterns, records changes in those movement patterns over time, and compares those patterns to other people in a like age group with known health statuses. Baseline patterns and changes can be associated with a variety of changes in health, including diseases that affect movement.

The current implementation of the software is based on the well-known Lockhart Monitor iPhone application, using a structured fall risk assessment that can be completed by a user in less than ten (10) minutes with minimal oversight (self-guided fall risk assessment). The software does not require the purchase of any additional hardware, just the accelerometers in the smartphone and the MyACTome™ proprietary nonlinear dynamics algorithms. These algorithms have been developed and extensively validated by Dr. Lockhart and have been licensed by MyACTome™.

The mobile application software consists of four (4) assessments, which are based on everyday user activities. There are two (2) baseline assessments and two (2) advanced assessments, with each assessment providing unique data to give an overall risk assessment. The two (2) baseline assessments evaluate Postural and Dynamic Stability while the two (2) advanced assessments look at Gait Speed and Timed Up&Go. The complete assessment takes approximately ten (10) minutes in total to perform. The data returned from these assessments provides specific information about balance, stability, and fall risk and can be seamlessly shared (if desired and appropriate) with a clinical care team at a medical practice, hospital, insurance company, etc., through the MyACTome™ administrative web portal. The data can then be compared to other user's movement patterns and baseline assessments for the same age and health profile, initially, and then monitored over time (longitudinally) to determine if there has been an improvement or decline in the patient's health condition.

MyACTome™ ADMINISTRATIVE WEB PORTAL

The companion Web Portal is a proprietary cloud-based application designed to be an administration "Dashboard" for collecting, assessing and monitoring data generated from the Mobile Assessment Application. This software application allows a clinician or navigator at an institution to invite a patient to download the mobile app through email or SMS and assign an assessment schedule to the patient. The dashboard then provides up to date information about each patient's compliance with their assigned assessments and their resulting scores, as well as aggregated data which can be filtered by provider and institution. Distinct user classes at the institution allow for different administrative rights to create clinician or administrative profiles (e.g. doctors, physician assistants, physical therapists, medical assistants, safety officer, etc. that work at the company/institution), combine clinicians into care teams, manage the user base for the company/institution, view dashboards and filter data.

The Web Portal allows members of the clinical care team to review both recent assessments as well as historical data to evaluate if their patient is progressing toward better health. The result of a patient's longitudinal scores may also help the clinician decide if a patient will require skilled nursing care or other post-operative help following surgery.

Shown below are two examples of the Administrative Web Portal

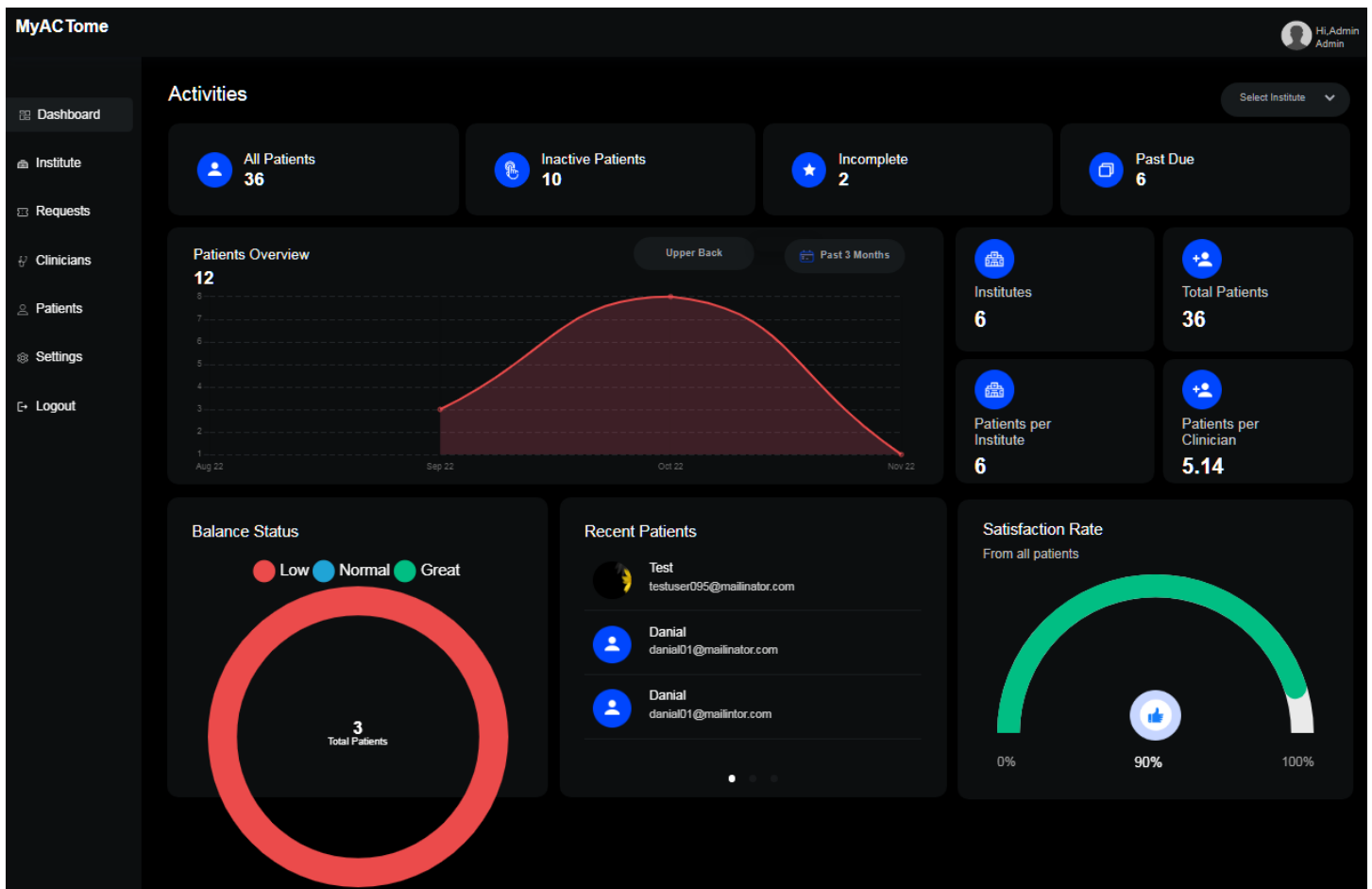- Figure #1 is an example of the Main Dashboard.

Figure #1 -Main Dashboard
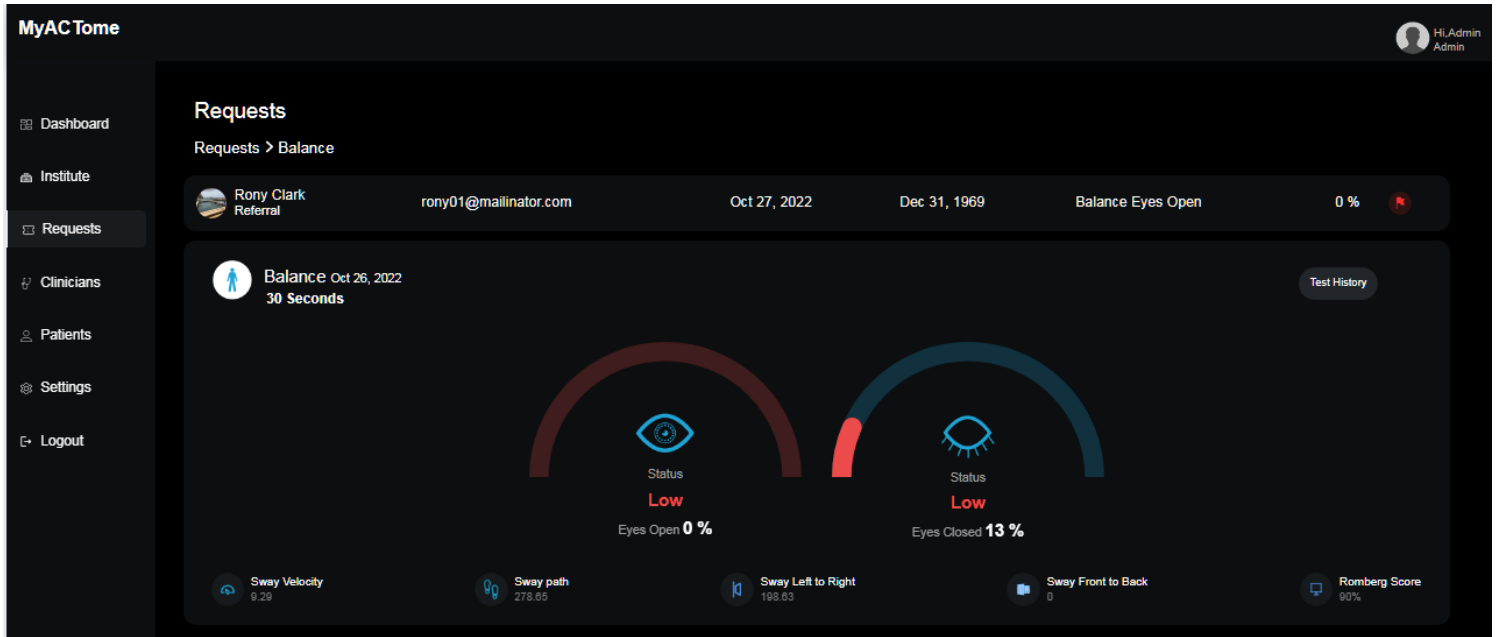
- Figure #2 is an example of a Postural Stability "Balance" Assessment on the Main Dashboard.

Figure #2 - Example of Balance Assessment