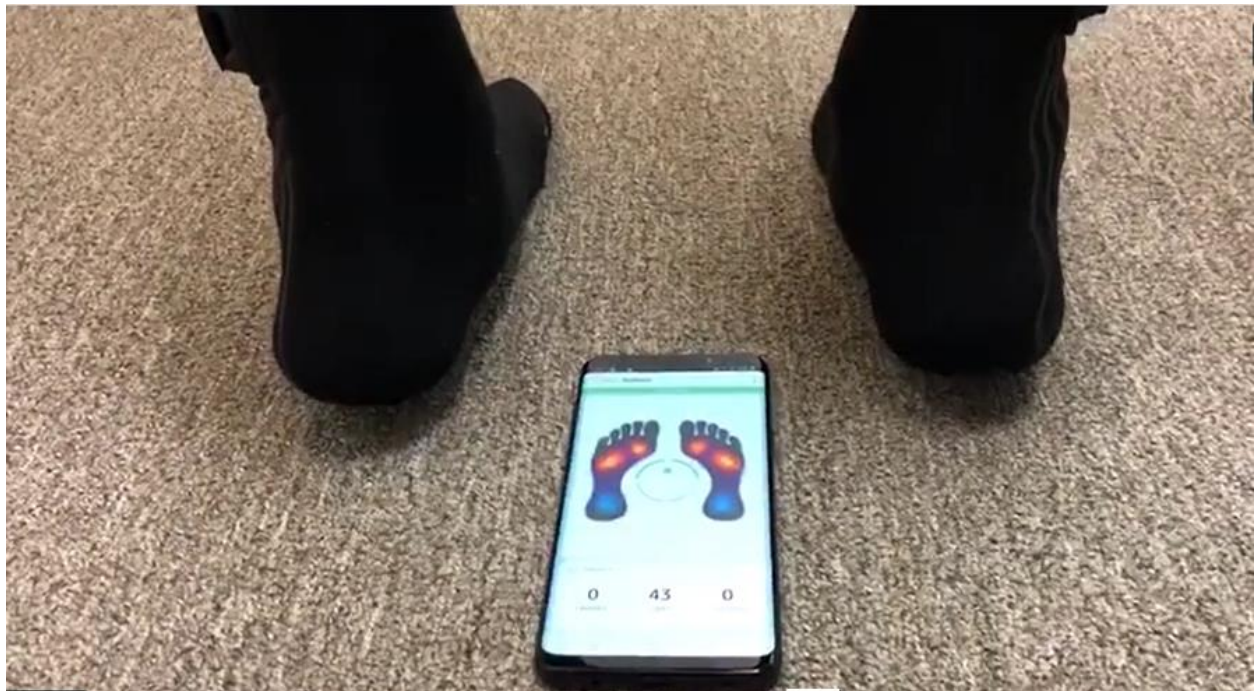




Sensoria Balance

In an independent study conducted by one of the oldest and most prestigious universities in Europe, “University Federico II” of Naples (Italy), a pair of our Sensoria smart sock v1.0 with three embedded textile pressure sensors was compared to the clinical gold standard: a stabilometric platform (Zebris ZP).

The [study's results](#) showed a significant agreement between the Sensoria smart socks and the Zebris ZP center of pressure (COP) measurements, suggesting a potential clinical use of Sensoria sock for low cost home care-based balance impairment assessments.

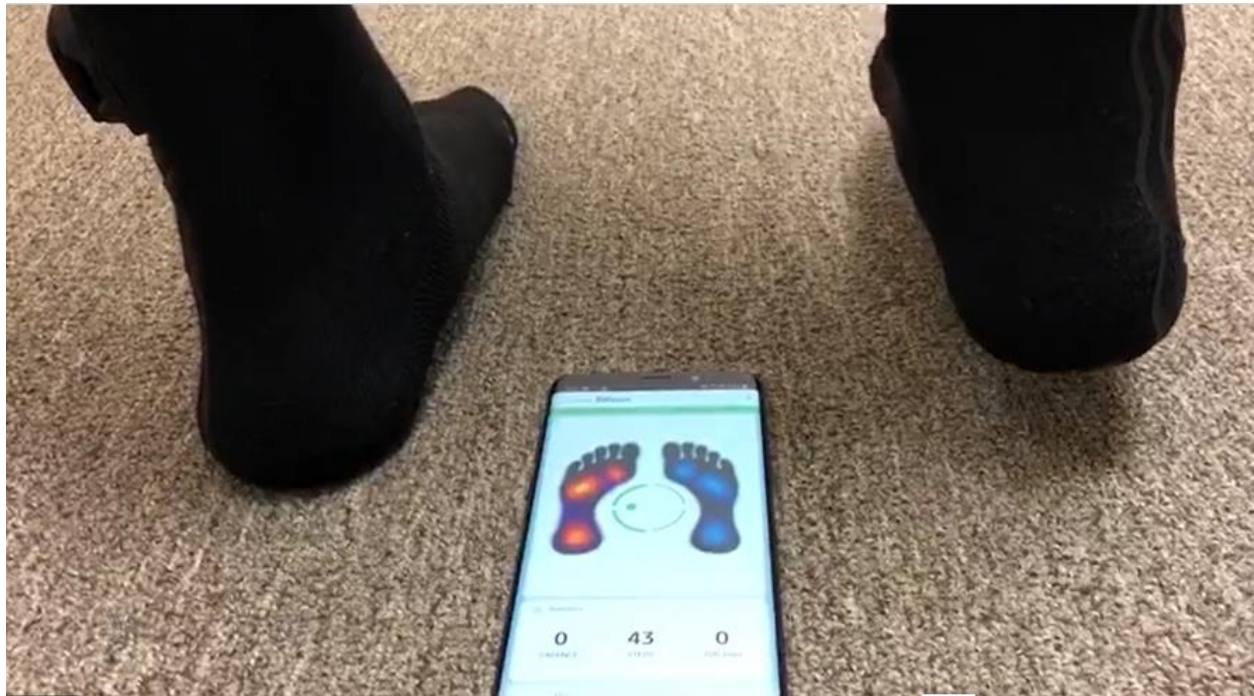


Available via our [Sensoria Developer Kit \(SDK\)](#), the new Sensoria Balance app monitors balance in near real time which has broad implications in both sport and fitness (i.e. golf, baseball, basketball, etc.) as well as many health care scenarios (i.e. Parkinson's, MS, etc.).

The new Sensoria smart sock v2.0 is now equipped with Sensoria® Core: a mission-generic microelectronic device equipped with a 9-axis IMU (accelerometer, magnetometer & gyroscope) combined with a mission-specific adapter designed to connect to sensor infused footwear and

garments. The size and the weight of the Core compared to the original device tested has decreased dramatically while simultaneously providing better accuracy and reliability.

As any coach and any player know, balance is absolutely essential for a sportsman. Proper balance is essential in order to complete a shot, a pass or a hit. Improper balance or injury to one leg will most likely negatively impact the outcome of the play irrelevant of the sport.



The use of balance data in healthcare spans from remote patient monitoring to Aging in Place. Through the collection of balance data from our textile sensor system, we will develop and apply predictive analytic techniques such as machine learning (ML) and artificial intelligence (AI) to recognize “patterns” in a patient’s gait prior to a fall which is impactful not only in fall detection but in fall prevention. In the United States today, 1/3 of the population aged 65+ will fall at least one time per year. According to Aging.com, statistics reveal that there is an elderly person receiving treatment for a fall every 11 seconds in the emergency room. Emergency facilities also treat more than 2.8 million cases a year due to falls. Of these cases, more than 800,000 result in hospital confinement and over 27,000 in death. Even having the capacity to decrease falls in just 1% of the population has significant cost savings for all parties (patients, healthcare providers and hospitals).

In the case of remote patient monitoring, we have the ability to extend the reach of the clinician beyond their four walls. Changes in the 2019/2020 CPT Physician Schedule code set reflect four new RPM codes that illustrate how health professionals can more effectively/efficiently use technology to connect with their patients at home to gather data for remote care management and coordination. The CMS adopted these codes for remote physiologic monitoring, making it easier to bring remote patient monitoring to Medicare beneficiaries.

In the near future, we believe that the Sensoria smart system may also allow clinicians to be reimbursed according to the new CMS guidelines per patient per month. For more information please email us at info@sensoriahealth.com.