

## PROTXX announces results from pilot study of elevated fall risks in elderly populations

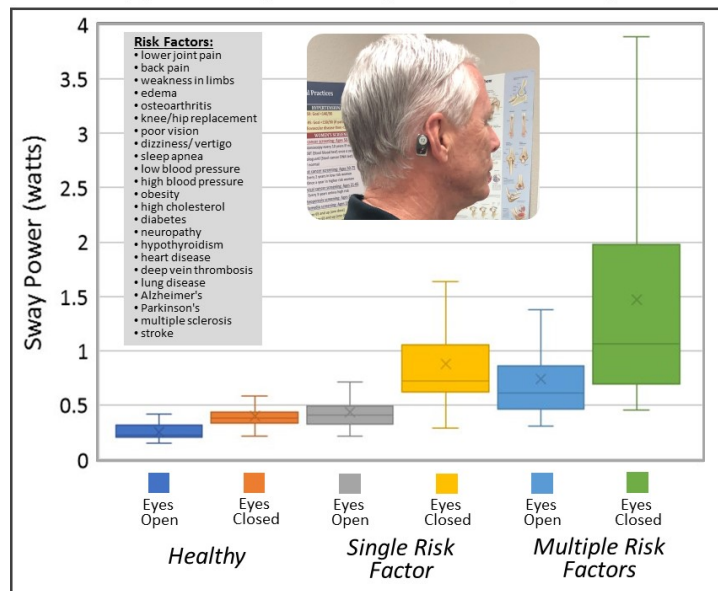
**Sacramento and Menlo Park, CA** – Wearable device and data analytics pioneer PROTXX Inc. today announced results from a pilot study of fall risk stratification and prevention in older populations using the **PROTXX Clinic** precision balance platform. Balance assessments were carried out during Medicare annual wellness checkups at the Rocklin Family Practice and Sports Medicine clinic between January and May, 2019, and during 1-day balance assessment clinics held at the Sun City Roseville retirement community and the Quarry Oaks Rocklin elderly community. Quarry Oaks is sponsored by the Department of Housing and Urban Development and managed by Volunteers of America. The balance assessment clinics were overseen by Rocklin Family Practice and Sports Medicine physician and PROTXX Chief Medical Officer Dr. Biljinder Chima, and supported by a team of Sacramento-based medical students. A total of 152 elderly participants received a free one-minute balance assessment using the PROTXX wearable precision balance sensor, a small device worn behind the ear. The test is administered using a mobile app connected to a powerful data analytics engine, and can identify neurological, vestibular, and orthopedic conditions that should be addressed to help with fall prevention.

Clinic coordinators at Sun City and Quarry Oaks commented: “The PROTXX test team members were very professional and pleasant to work with, the test was very simple, and the balance data was self-explanatory. Everyone who participated was pleased with the information they received after the test, and we look forward to being able to provide such testing on a regular basis.”

“The PROTXX precision balance sensor provides quantitative fall risk assessment with unmatched ease of use,” explained Dr. Chima. “Clinical balance measurements are used today to assess fatigue, injury, disease, medical-treatment, and age-related balance impairments that affect billions of people worldwide. Assessing fall risks in elderly populations is a very important application, but current solutions all require expensive clinical equipment and complex, time consuming testing procedures. PROTXX innovations in wearable sensors and rapid test protocols provide a much simpler and more cost-effective solution suitable for higher frequency clinical assessments and regular preventive testing. The test results allow us to stratify fall risks as a function of a broad range of risk factors observed in elderly communities.”

### Balance Impairments / Fall Risk in Elderly Population

(Age  $77.3 \pm 7.6$  yrs, min = 49 yrs, max = 98 yrs, N=152)





PROTXX CEO and Founder, John Ralston, added: “One exciting breakthrough from this initial study is the observation of unique features in the sensor data that may allow advanced machine learning models under development at PROTXX to identify, quantify, and monitor the evolution of specific physiological disorders that contribute to the observed balance impairments and increased fall risks. PROTXX is now working with leading clinical and rehab providers in the U.S. to expand the above studies to much larger elderly populations. These collaborations will focus on earlier detection of specific disorders with very high societal impact and healthcare costs, such as type 2 diabetes and Parkinson’s disease, and more quantitative assessment of therapeutics and rehab protocols used to treat neurovestibular and musculoskeletal impairments following disruptive events such as traumatic brain injury (TBI) and stroke.”

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