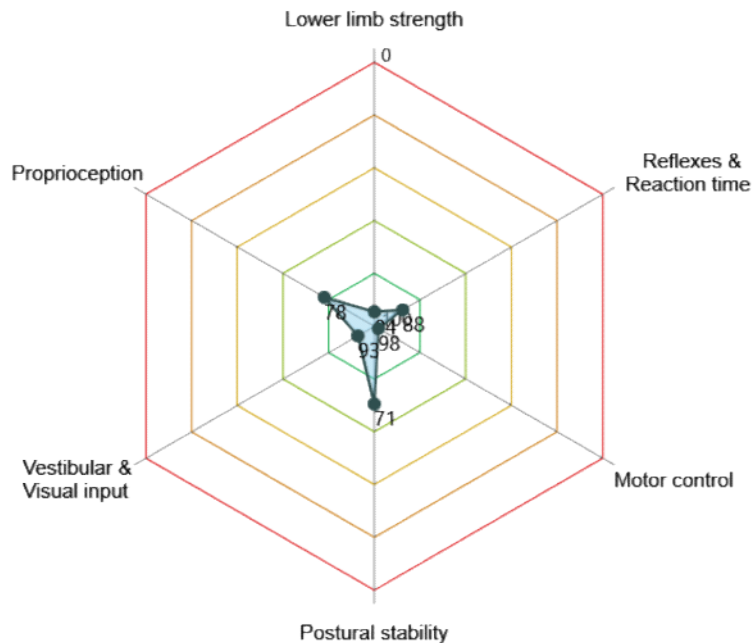


Clinical Report - Total Balance Pro

Name	John Stuart	Age	59	Device	PhysioSensing
Gender	Male	Date	06/02/2021 19:00:18	Clinic	
Height	1.68 m	ID	T04_10	Health professional	CT
Weight	72.0 kg				
Diagnosis Exercise	Analyses the balance integration through six categories - proprioception, vestibular/visual input, postural stability, lower limb strength, reflexes/response time and motor control.				

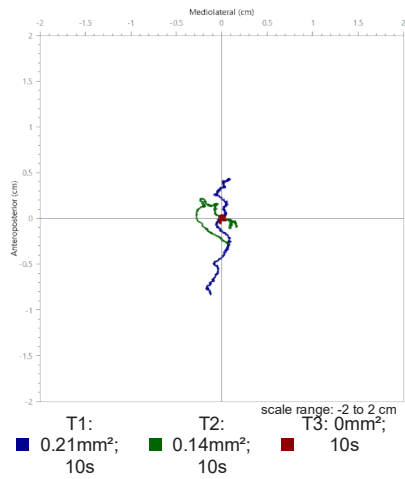
Summary results



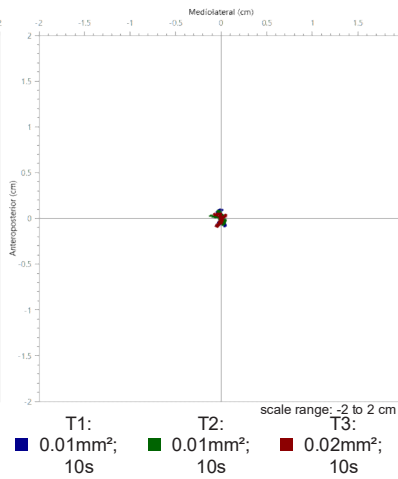
Note: This graph displays the categories that need intervention. The value of each category correspond to the weighted average of results in relation to their normative values. A value of 100% indicates that all results in this category are within the normative values. See in Detailed Results the parameters used for each category.

	Description	Clinical Considerations
Proprioception	Provide information to the brain for spatial orientation of the body and movements of body segments relative to each other from muscle spindles, tendon organs, joints and skin receptors.	Habituation exercises through static and dynamic activities on different surfaces, such as BAPS board training; stretching techniques for enhancing range of motion. Screening for peripheral neuropathy.
Vestibular & Visual input	Postural orientation and equilibrium from sensorimotor integration in static activities	Recognize the vestibular and visual contribution on balance. Refer to vestibular specialist for further investigation.
Postural stability	Indicates the ability and the effort to maintain balance analyzing sway parameters and asymmetries.	Acquire appropriate postural strategies, such as ankle and hip strategies. Train with balance control exercises and weight bearing (antigravity) postures.
Lower limb strength	Muscle strength of lower extremities during dynamic tasks	Empowerment of trunk and lower limbs. Use ankle weights and elastic resistance bands for functional training. Also focus on knee-flexor and extensor and plantar-flexor muscle train.
Reflexes & Reaction time	Spinal reflexes and voluntary response to specific stimuli	Adaptation exercises to train balance reactions such as stop and go, and changes of direction exercises. Also practice dynamic stepping routines and weight shifting exercises under sound and visual signals.
Motor control	Motor output ability during static and dynamic postural conditions	Practice weight shifting exercises with biofeedback for dynamic balance control and limits of stability training. Also train Tai-chi with slow rhythmic movements.

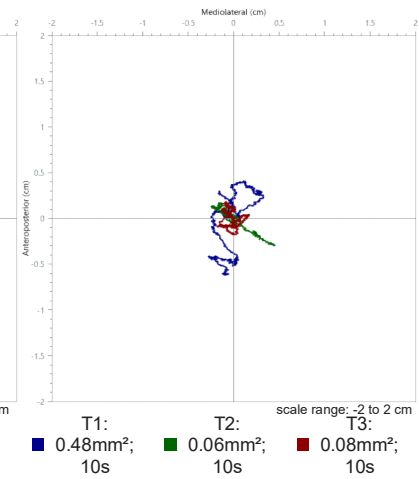
1. Firm surface eyes opened



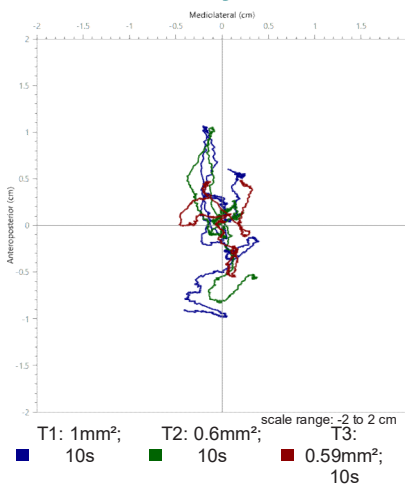
2. Firm surface eyes closed



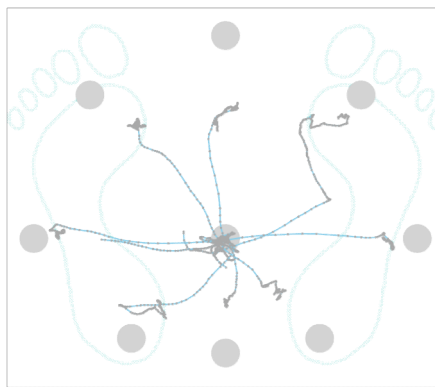
3. Foam surface eyes opened



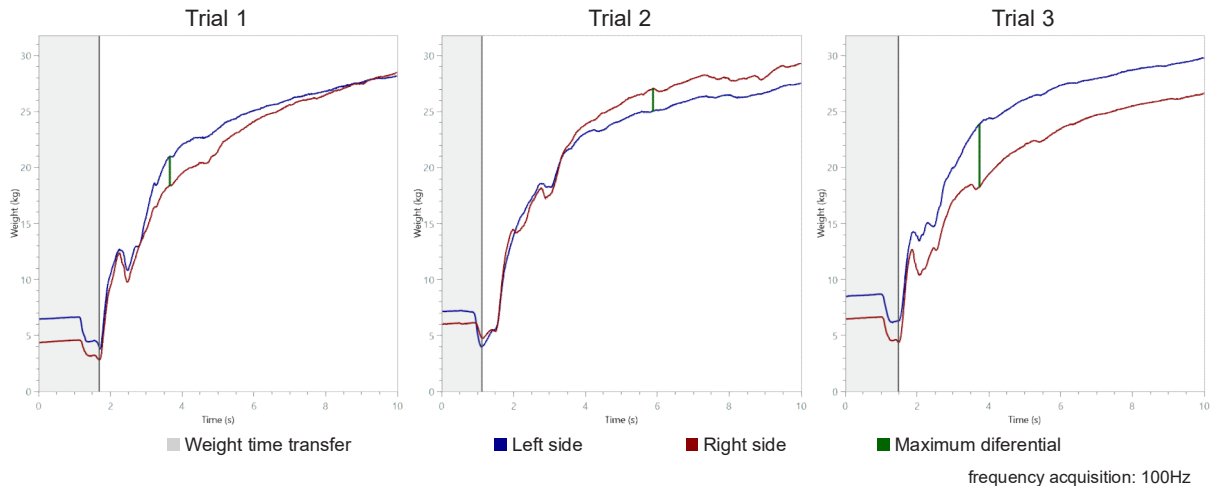
4. Foam surface eyes closed



5. Limits of Stability



6. Sit-to-Stand



Detailed Results

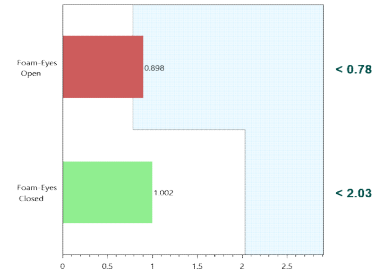
Proprioception

Sway velocity (°/s)*



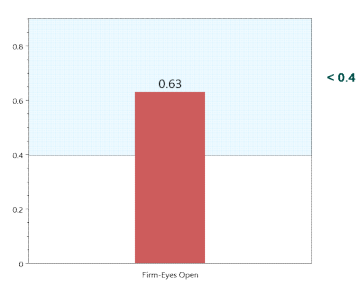
Vestibular & Visual input

Sway velocity (°/s)*

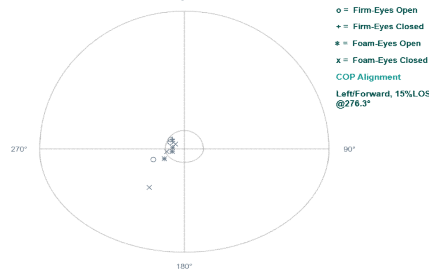


Postural stability

Sway velocity (°/s)*

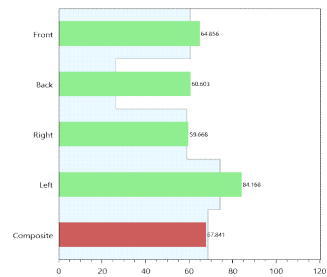


COP Alignment*

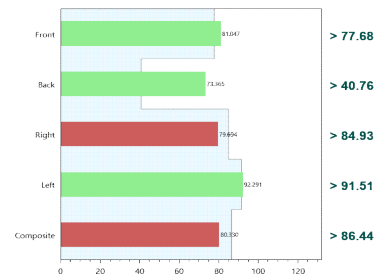


Lower limb strength

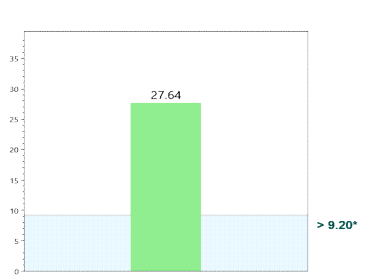
Endpoint Excursion (%)†



Maximum Excursion (%)†

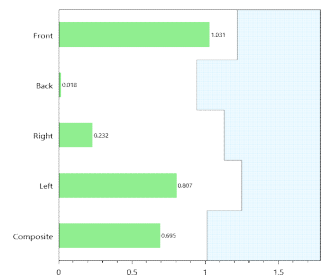


Rising index (% body weight)‡

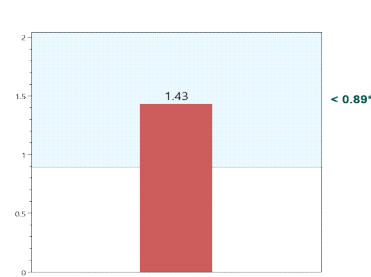


Reflexes & Reaction time

Reaction Time (s)†

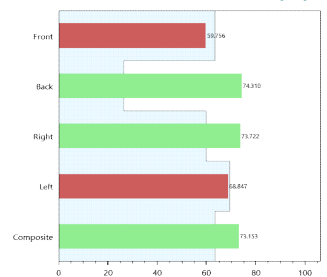


Weight time transfer (s)†

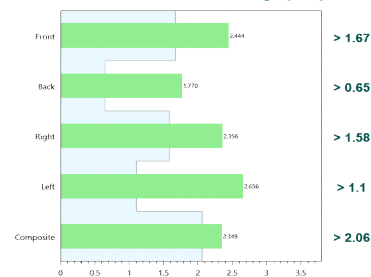


Motor control

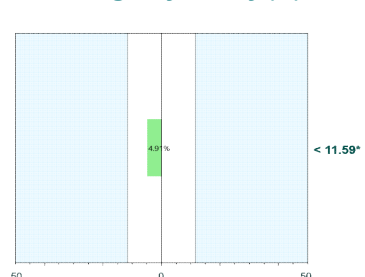
Direction Control (%)†



Movement Velocity (°/s)†



Left/Right symmetry (%)‡



* Static Balance Tests; † Limits of Stability; ‡ Sit-to-Stand