Lightweight, Portable Balance Assessment and Training
Athletes to Older Adults
Instrumented platform with easy-to-read 15.6" touch-screen display sets up in minutes to perform interactive training and standardized testing.

www.biodex.com/biosway
NEW BioSway™

FEATURES:

- Lightweight Instrumented Platform — sets up in minutes to provide static force testing for interactive training modes or standardized testing environments, including the Clinical Test for Sensory Integration of Balance (CTSIB).
- Fully Portable — Conveniently portable within a facility for in-resident care. For satellite locations, the optional hard-shell travel case provides added protection when transporting to community-based health fairs or school settings for athletics. The case fits easily into small car trunks.
- NEW Fall Risk Screening Test — Using static force platform, objectively quantifies postural sway velocity to predict fall risk.
- NEW Limits of Stability Test — Uses angle from center to determine sway capabilities as a percentage of the standard. Allows for completion of sway assessment without minimum threshold requirements.
- NEW Bilateral Comparison Test — Measures and compares stability of one leg to the other using single-leg trials. Reports individual sway index and percent difference to assess deficit in orthopedic injuries.
- NEW Software and Larger Display — Intuitive navigation, 15.6" touch-screen display for improved user experience. Accommodates external keyboard and mouse.
- NEW Microsoft SQL Database — Allows clinician to easily store and retrieve patient data, multiple tests per patient. Export to Excel® for reporting and analytics.
- Objective Documentation — Printed color reports prove need, track progress and document outcomes — ideal for insurance reimbursement. (Printer sold separately.)
- Custom Reporting — Allows entry of unique comments to test results and assignment of CPT codes.
- G-Code Reporting — Improve documentation of rehab effectiveness with automated G-code calculations and impairment level reports. These efficiencies foster continuity of care, simplify audits and reduce claims denial.
- Enhanced Sensory Integration Balance Testing Capabilities — Ability to perform a modified version of the Clinical Test of Sensory Integration of Balance (CTSIB) popular for concussion management. Customize existing CTSIB and BESS test parameters or create and save unique sensory integration protocols.
- NEW Normative Data — Healthy populations stored for test comparison of older adults for fall screening and student athletes for concussion management.
- Multipurpose Connectivity — Allows connection to larger monitors and projectors to enhance interaction for visually impaired patients.
- Display Stands — The BioSway includes a tabletop stand that can also be used to wall mount the display. The display can even attach to compatible display mounts. A telescoping adjustable stand, available separately, is compact and portable with its own travel bag.

Objective Documentation

Sample reports available.
www.biodex.com/biosway

Biodex has partnered with Concussion Health to provide clinical education tools to support best practices in concussion rehab.
Ask about educational opportunities available with your NEW BioSway.
www.biodex.com/concussionhealth

Prove Need. Progress. Outcome — All test results and training sessions can be stored and printed. Comparison to normative data helps communicate need, progress and outcome.
A fixed platform, **portable** Balance Assessment and Training device

**Training Modes:**

**POSTURAL STABILITY** – Emphasize specific movement patterns or strategies by placing markers anywhere on the screen. Score reflects how many times a target is hit.

**MOTOR CONTROL** – Challenges the user to move through a movement pattern consistent with one’s “sway envelope”, which is the area a person can move their center of gravity within their base of support.

**WEIGHT SHIFT** – Patients are challenged to shift and control their center of gravity within two parallel lines, in the medial lateral, anterior posterior and transverse planes of movement.

**MAZE CONTROL** – This defined movement pattern encourages proprioception and motor control. Various skill levels challenge a wide variety of patients.

**RANDOM CONTROL** – Introduces a cognitive component to balance training. An undefined movement pattern where the patient is challenged to keep pace with a moving target. Ideal for motor control and vestibular training.

**PERCENT WEIGHT-BEARING** – Provides real-time feedback on a patient’s foot, ankle, knee, hip, body side, and such. In this mode, targets can be set that encourage patients to focus on goals in anterior, posterior, medial, and lateral movements.

**STANDARDIZED TESTING ENVIRONMENTS**

Postural Stability, Limits of Stability, Bilateral Comparison, Motor Control, Fall Risk and Clinical Test of Sensory Integration of Balance (CTSIB) are all included.

“The Biodex BioSway has become an important tool in our clinical research for concussions in young athletes. There are many important questions that we hope to answer. The portability and objective data make it a great tool.”

Mark V. Paterno PT, MS, MBA, SCS, ATC
Coordinator of Orthopaedic and Sports Physical Therapy
Cincinnati Children’s Hospital Medical Center
Who can benefit from the BioSway?

Older Adult

Older adults can be tested for balance deficiencies, and training programs can be established to help them remain mobile or regain their mobility. The portability of the BioSway allows the testing and training to be done either “in-facility” or on location.

Note: ICD-10-CM Z91.81 History of Falling includes patients identified as “at risk of falling.” For additional codes that apply see www.biodex.com/ptcodes.

Fall Risk Screening

Using the Fall Risk Screening capabilities of the BioSway, clinicians can test patients and compare balance test results to normative data.

Neurorehabilitation

The clinician uses the BioSway to assess balance and stability of those patients suffering from neurological disorders associated with Parkinson’s, Stroke or Peripheral Neuropathy, and to determine a course of treatment. The progressive testing and training modes are applied to treat and retain balance and gait. Patients are motivated with real-time biofeedback while their progress can be documented and printed for review.

Vestibular Patients

The portable BioSway is an evaluation tool, as well as a rehabilitative device, ideal for patients experiencing vestibular issues. Vestibular therapy includes balance retraining exercises designed to steady a patient while walking or standing through improvements in coordination of muscle responses and organization of sensory information. Coupled with the NEW VibroTactile System patients receive vibrotactile biofeedback resulting in improved postural control – eliminating the need for subjective verbal and hands-on therapist cueing. Learn more about the NEW VibroTactile System, www.biodex.com/vibrotactile

Post Surgical/Ampuette and Post Trauma Rehabilitation

The BioSway is a valuable tool when addressing balance deficiencies in post-surgical Hip, Knee and Ankle patients, as well as Ampuette patients. Balance evaluation, retraining, lower extremity strengthening and weight-shift training can speed recovery. The post surgical patients benefit from evolving difficulty of the training modes and the real-time biofeedback. The clinician benefits from ease-of-use, trackable documentation and fast results.

Athletes

Biodex Balance Assessment for Concussion Management delivers objective preseason baseline and post-injury balance assessment for athletes. Detailed summary and progress reports track recovery and provide quantitative data to aid clinicians with return-to-play decisions. For details visit www.biodex.com/concussion

www.biodex.com/biosway