

Neofect Smart Board

With Functional Arm Reaching, Neofect Smart Board effectively improves the patient's coordinated movement across multiple joints and active range of motion.



Target Group

Cerebral palsy | Spinal cord injuries | Multiple sclerosis | Stroke | Traumatic brain injury
Musculoskeletal diseases | Bone fractures | Rheumatism | Tendon and ligament lesion

Features



Results in Real Time

Measuring of AROM before and during training. Recording of time trained, range of motion and reaction time.



Gamified Exercises

Intensive, repetitive, task-oriented training for motoric learning in accordance of patient's individual level of performance.



Data and Outcomes Tracking

Evaluation of arm, shoulder and elbow movement data. Analyzing and monitoring of patient's training progress.

Rehab Protocol

Main Features

- Ergonomic design allows full movement of arm
- Movement task specified on areas of daily living
- Quantitative analysis of the patient's skills and their progress
- Real time biofeedback through infrared sensors
- Customizable learning algorithm

Upper Extremity Movement

- Scapula: Protraction and retraction
- Arm: Extension and flexion
- Arm: Horizontal adduction and abduction
- Arm: Internal and external rotation
- Arm: Circumduction
- Elbow: Extension and flexion

Goals of Treatment

- Training of active range of motion
- Improvement of coordination

Rehab Process



Assessment & Evaluation

Free exploration, destination arrival, and path drawing are evaluated with three movements, and the patient's condition and movement are analyzed based on data.

Training

Gamified exercises encourage the patient to continually challenge himself / herself assigning tasks on the appropriate level games with the algorithms.

Result & Report

For each training, the progress is reported with key results like movement speed, range of motion, quality of the movement and the degree of improvement.