sensbalance *Software*

BMS *(baseline measurement software)*

Collect data regarding your balance & core stability training and visualize progression in time. An effective clinimetric tool for mapping and following several aspects of balance behaviour.

During short guided exercise protocols movements are measured and analysed automatically.

This allows capabilities studies concerning:

- Range of Motion
- Static Balance
- Proprioception
- Reaction
- Coordination

This software extension is optional. It works with each individual member of the Sensamove product range. With this professional tool for recording, analysing, archiving and reporting movements on Sensamove products, you will be able to visualize and quantify the progression of balance capabilities during treatment.

Sensamove is a young, dynamic and innovative company that develops and produces interactive exercise equipment. Sensamove wants to encourage exercising by giving useful visual bio-feedback, making therapy more fun, and its results readily measurable.

sensamove
Quality of free movement

Sensbalance analysis Software: BMS

With the optional software BMS for recording, analysing and reporting balance capabilities, your client is guided through several short exercise protocols in which the client needs to move a red dot on the screen following different tasks. During these tasks the movement data are recorded and analysed.

Fully adjustable exercise protocols

The Baseline Measurement Software consists of sequential, short, guided exercise protocols of 10-20 seconds. For each capability study a dedicated protocol exists. All protocols are performed by the client starting in the neutral start position with the red dot in the middle of the monitor screen. Clients are asked e.g. to move the red dot on the screen to a target disk which appears in one of the four movement directions FRONT, BACK, LEFT or RIGHT. The number of directions and number of different protocols are customizable. So the length and diversity of your examinations can be decided by yourself.

ROM

- The ROM protocol exercise measures the maximum sway and (a)symmetry of the movement.
- Following protocol exercises are performed at 80% of the maximum ROM to prevent overstretching and overload.

Static Balance

- Static Balance is analysed using measured data during 6 seconds, in which the red dot needs to be kept as stable as possible on the position of a target disk. The standard deviation is measured in three blocks of 2 seconds, and presented as three values in the report, and thus visualizing static balance capability at the beginning, the middle and the end of the exercise.

Dynamic Balance, subdivided in three exercise protocols:

Proprioception

- The proprioception exercise protocol consists of two parts. In the first part a target needs to be reached with visual feedback. In the second part the moving dot disappears and the target needs to be reached without visual feedback, just by remembering the feeling in the body. Both sense of direction and sense of distance is measured and visualized.

Reaction

- A target disc appears suddenly. The reaction time and travel time to the target is used to quantify the ability to reach the target accurately and as fast as possible.

Coordination

- Data are recorded during a controlled and smooth movement along the FRONT-BACK axis or the LEFT-RIGHT axis.

Clear reporting

A clear report helps to visualize and quantify the findings. Reports can be printed and supplied as hand-out. By comparing data gathered during the complete treatment period progression in time can be shown. Reports can be stored in the client database of the Sensbalance Software, or as PDF file anywhere on your computer.