

EQUIPMENT REVIEW**III REHAB – A 2-IN-1 INSTRUMENT FOR ASSESSMENT AND MANAGEMENT OF BALANCE DYSFUNCTION****Ganvir Suvarna¹, Harishchandre Maheshwari², Sheikh Jasmine³**^{1,2}Professor, ³Asst. Professor (Dept. of Neurophysiotherapy), Dr. Vithalrao Vikhe Patil Foundations College of Physiotherapy, Ahilyanagar.

Balance impairment is common in patients with neurological dysfunction which needs specific assessment and management. Variety of tools are available for assessment and management separately. But very few instruments offer both facilities.

III Rehab by Physiosensing is a lightweight Balance Plate offers a series of Assessment protocols to test the Balance of an individual and also includes variety of treatment options. It also has a wide range of Rehab activities with varying levels of difficulty that you can adjust as per the patient's level of impairment or capability. This unit can have an add on feature Libra VR Software and Goggles for Virtual Reality for Vestibular Rehab.

Physiosensing also offers other models like the III Max Rehab which is a longer Platform which includes protocols like Forward Lunge, Step Up and Over along with the protocols of the III Rehab. In addition, the Physiosensing Kinesim is a unique Dynamic Platform which Induces Perturbation and challenges the subject's ability to maintain Balance. The visual stimulus provides realistic environment that matches the perturbation.

There are 14 balance protocols available in III Rehab including CTSIB, body sway- posturography, Falls risk assessment via measurement of Limits of stability, Unilateral stance, static analysis, weightbearing squats along with other features of balance. There are 4 balance games which keeps the patient engaged through task specific exercises. It

also includes 30 balance exercises of varying complexity.

It also has Podo Software which helps to understand the pressure map of patient's foot during the weight bearing. It also generates static and dynamic baropodometric analysis.

The instrument is primarily composed of Pressure Plate, Podo software and balance Software. Along with assessment, instrument can also be used for balance training with biofeedback in various neurological disorders affecting balance.

Graphic Devices specialise in equipment for Human Movement Analysis and are trained to perform the installation of the equipment and impart the user training as well. Information available on website www.graphicdevices.co.in.

**References**

1. <https://www.embs.org/press/wearable-device-for-balance-exercises/>
2. <https://www.physiosensing.net/>

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