

ForceWIN10: A diagnostic device for musculoskeletal and neuromotor impairments

Published date: June 27, 2016

Technology description

ForceWIN10 is an integrated diagnostic tool developed to measure muscle force dynamics in patients with nervous system injuries and diseases.

Technology Description

ForceWIN10 is an integrated and portable data acquisition system featuring wireless sensor technology to assess muscle force dynamics in hands and orofacial structures in humans. ForceWIN10 is a powerful tool for diagnosing and treating musculoskeletal and neuromotor impairments in a wide range of clinical populations across the lifespan. Fixtures instrumented with strain gauges measure the upper lip, lower lip, tongue, jaw, oral angle and finger/hand compressive forces and relay the data to the host device.

Inventive Feature(s)

- Real-time, wireless bedside data acquisition and display
- Customizable test protocols
- Adjustable lip and tongue force sensors

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Application area

- Physical and rehabilitative therapy
- Speech therapy
- Sports medicine
- Geriatric medicine

Advantages

- Non-restrictive - provides complete mobility to patients during evaluation
- Universal - usable for patients of all age groups
- Portable - can be used in a hospital, medical clinic, rehabilitation center or at patient' s home

Institution

[University of Nebraska, Lincoln](#)

Inventors

[Steven Barlow](#)

联系我们



叶先生

电 话 : 021-65679356

手机：13414935137

邮箱：yeyingsheng@zf-ym.com