



Next Generation Stadiometer OTT#1476

TECHNOLOGY

This novel device allows a single clinician to accurately and reproducibly measure an individual's arm span. Currently, the arm span is the most widely used surrogate measurement of height in clinical and research settings. As no standard measurement method exists to measure recumbent height, our device is poised to lead to widespread adoption and standardization due to its ingenious design. Created by nurses for nurses and other clinicians, our device can be operated by a single person while not sacrificing accuracy of the measurement, leading to increased productivity, consistency and improved long-term patient care. Widespread adoption offers the possibility of inclusion of data in NHANES and better standardization practices within the disabled, obese, exercise science and dietetics communities. Accurate Body Mass Index calculations are requisite for obesity screenings, a common problem in the recumbent community that can be better addressed with improved height measurement tracking. Equally important uses for height monitoring include observing trends in growth, establishing correct drug dosages, and administering correct pulmonary tests that rely on height measurements.



FEATURES/BENEFITS

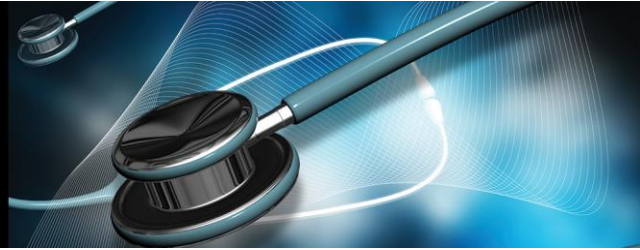
- A device that can be operated by a single individual, calibrated to provide an accurate, reproducible measure of height for a recumbent patient.
- The potential to develop standards or protocols of measurement for individuals unable to stand upright or stand straight.
- Enables more precise body composition measurement, improved accuracy in obesity screening results, drug prescriptions and pulmonary function tests.
- Having a valid and reliable measure of height will improve obesity treatment for individuals with disabilities by providing a standard of measurement in population-based measures and/or databases.

INTELLECTUAL PROPERTY

A provisional patent application has been filed with the U.S Patent and Trademark Office. An initial prototype has been created at the UWM and we are looking for partners to aid in bringing this product to market from the prototyping phase.



Technology Overview



MARKET

The global market for hospital supplies is projected to reach \$49.21 billion by 2020. The aging population is on the rise with Americans 65+ comprising 14.5% of the population. They are expected to reach 21.7% by 2040.¹ Spina bifida occurs in approximately 1 in 1,000 births worldwide, making it one of the most common congenital formations. As of 2015, an estimated 240,000 U.S. citizens suffer from a spinal cord injury, with 12,500 new injuries occurring each year. Hospital-acquired infections are on the rise, with 1 in 25 U.S. patients contracting at least one infection during hospital care. Major economic revival in emerging nations and an increasing number of communal diseases are the major driving factors for the hospital supplies market.

INVENTORS

Michele Polfuss, Ph.D.

Dr. Polfuss joined the University of Wisconsin-Milwaukee College of Nursing as an assistant professor in 2013. Her research has focused on pediatric obesity and its related co-morbidities with a special interest in the role of the family through parenting and feeding behaviors and obesity within the special needs population. She is a certified pediatric nurse practitioner both in acute and primary care. Previous clinical experience includes working in pediatrics within the subspecialties of obesity, endocrinology, and cardiology.

Andrea Moosreiner, MS

Ms. Moosreiner is currently the Program Manager of Bionutrition at the Medical College of Wisconsin (MCW) and the State Regulatory Specialist at the Wisconsin Academy of Nutrition and Dietetics. Ms. Moosreiner has worked with the MCW in the past as a Clinical Research Assistant and Laboratory Technician for many years. Before receiving her Master's of Public Health from the MCW, she received her B.S. in Dietetics from Mount Mary University and an Associate of Science from Colorado Mountain College.

Bethany Forseth, MS

Ms. Forseth received her Bachelor's in Exercise and Sport Science from University of Wisconsin-La Crosse and her Master's in Kinesiology from University of Tennessee-Knoxville. She has previously worked at the University of Tennessee Medical Center in the Cardiac Rehabilitation division.

For further information please contact:

Audrey Salazar

Licensing Associate

UWM Research Foundation

1440 East North Avenue

Milwaukee, WI 53202

Tel: 414-906-4657

Please reference: OTT ID. 1476