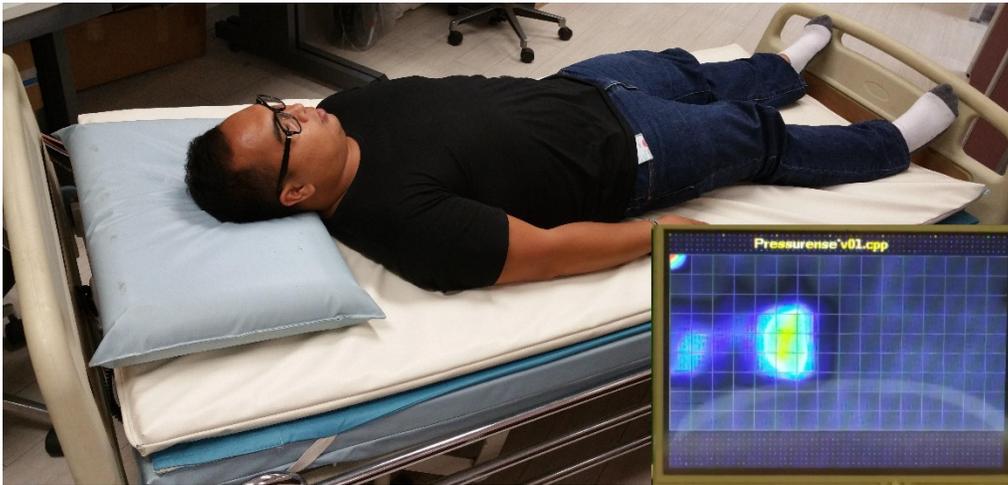


Bed Pressure Mapper



Technology Overview

This technology provides convenient and immediate noninvasive measurements of pressure distribution across a body surface whenever an individual lies on the bed-sized sensor. High pressure points are highlighted and mapped out with colour contours. The individual is made aware of high pressure points so that he can adjust his sleeping position, or through other means, redistribute pressure more evenly. This reduces discomfort and lets an individual sleep better and more soundly. Reducing high pressure points also lowers the risk of developing pressure ulcers which are very painful, difficult to heal, and may require lengthy hospital stays.

Technology Features & Specifications

This technology uses a proprietary technique to reliably measure the pressure exerted across a large surface area of a foam substrate. Measurements are highly repeatable and are correlated to surface pressure to form a pressure distribution map with coloured contours. The resolution of the mapper can be scaled up from 170 sensing points to 640 and more (>1000) to match the application.

Potential Applications

This technology can be used in individual homes for the individual to get sound sleep and become more productive the next day. It is also very suitable for use in nursing homes and hospitals where patients spend most of their time in bed. In addition, this technology will help patients with pressure ulcers to recover quickly by avoiding further aggravation to the wound.

Customer Benefits

- The sensor shows non-intrusively and immediately, a continuous mapping of the pressure profile across his body.
- High pressure points guide the user on how to redistribute his pressure and become more comfortable.
- Easy to use - simply lie down on the bed with the sensor spread underneath.
- Wake up refreshed and productive (versus sleepy) from a more comfortable rest and a good night s sleep.

OVERVIEW

- Technology Category Healthcare - Medical Devices
- Technology Status Licensed But Available
- Technology Readiness Level [TRL6](#)



NGEE ANN
POLYTECHNIC

CONTACT:

Technology Development and Innovation Office
Website : www.np.edu.sg/tdi
Email: dept-tdi@np.edu.sg