The Use of Temperature Data in the Assessment of Wounds and Body Surfaces

V. Chowdry Pinnamaneni, MD
Diane Langemo, PhD, RN, FAAN
Thomas J. Spanh, MD, FACS

Abstract

Accurate and repeatable measurement of size is essential for documenting progression or regression of wounds. The gold standard in wound measurement is the use of a ruler. However, this method is flawed because it can lead to measurement errors due to the use of inaccurate or poorly calibrated rulers. Current commercial wound measurement tools suffer from similar flaws. In this paper, we present the Use of Temperature Data in the Assessment of Wounds and Body Surfaces. The WoundVision Scout is a device designed to measure wound size and be used in conjunction with infrared imaging for more accurate wound size measurement. This tool allows for objective assessment of relative parities and disparities between the entire wound site. This allows clinicians to save and discard redundant assessment of wounds.

Potential Clinical Uses

- Diabetic foot monitoring
- Step therapy
- Post-surgical/wound infection
- Re-vascularization

Testimonials

- "Thermography is a promising technique to more accurately stage wounds, track healing, and identify deep tissue injury."
- "Infrared imaging using intelligent software may become a promising, objective method for identifying incipient PrUs and provide clinicians with specific anatomical locations for increased preventive measures.""