

Greater Measurement Accuracy with the MolecuLight *i:X* Led to Improved Tracking and Documentation



Practitioner

Rose Raizman, RN-EC, MSc, with over 19 years of experience, leads the Save Our Skin (SOS) team at Scarborough & Rouge Hospital located in Toronto, Canada, to combat pressure ulcers of hospital inpatients. She also oversees the wound care clinic for inpatients and outpatients.



Patient Condition

90-year-old male with an irregularly shaped venous leg ulcer present on his left calf for more than a year. Patient care paradigm included Negative Pressure Wound Therapy to promote wound closure, MolecuLight *i:X* fluorescence images to routinely screen for bacterial presence, and antimicrobial dressings to manage bioburden.

References:

1. Khoo R and Jansen S. The Evolving Field of Wound Measurement Techniques: A Literature Review. *Wounds* 2016;28(6):175-181.
2. Flanagan M. Wound measurement: can it help us to monitor progression to healing? *J Wound Care*. 2003;12(5):189-194.

US FDA De Novo approval pending - the MolecuLight *i:X*™ Imaging Device is not available in the US.



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Accurate, reproducible, and rapid tracking and documentation of wound size is an important component of wound care. Precise documentation of wound size over time allows clinicians to gauge responses to treatment, improving healing rates by modifying interventions as required.^{1,2} Size has traditionally been determined using a wound ruler to measure wound length and width. However, wound length and width widely overestimate wound area in irregularly shaped wounds¹ and are difficult to consistently measure when wound shape changes. This is problematic given that serial wound measurements are a reflection of healing potential.² Using the MolecuLight *i:X*, clinicians can measure, track, and document wound area as well as length and width to improve measurement accuracy while maintaining consistency over time.

Due to this patient's irregular wound borders, standard wound ruler measurements overestimated wound area by more than 2-fold (36 cm² with wound ruler vs. 15.85 cm² with the MolecuLight *i:X* (Figure 2)). By improving wound measurement technique, the clinician was better able to gauge patient response to chosen interventions.



Figure 1: ST-image Mode.™ Image taken under standard lighting conditions with two MolecuLight WoundStickers.

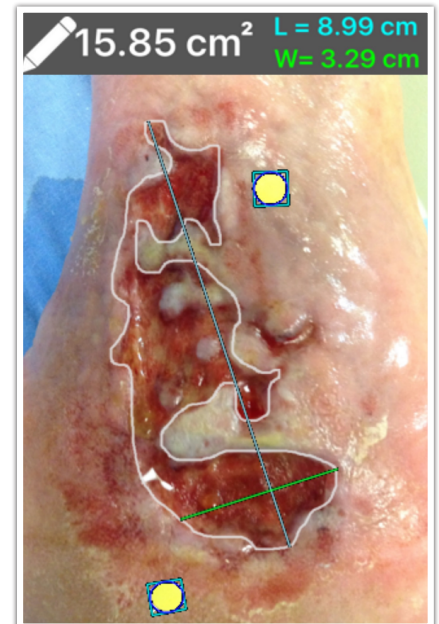


Figure 2: Wound area measurement of clinician traced wound border.

MolecuLight *i:X*™ Wound Intelligence Device

The MolecuLight *i:X* allows clinicians to quickly, safely and easily visualize bacteria and measure wounds at the point of care so they have maximum insights for accurate treatment and accelerated healing.

Testimonial

“The measurement feature will be incredibly helpful in tracking irregular wound borders such as this. For this patient, my ruler measurement is an overestimate. It cannot accurately track border changes over time.”

— Rose Raizman, RN-EC, MSc

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