

MolecuLight *i:X*TM Wound Imaging Device

Incorporating the MolecuLight *i:X* into standard care helps clinicians measure wounds^{1,2} and detect fluorescent bacteria³⁻⁷ to facilitate evidence-based clinical decision-making in these areas of wound management:

ASSESSMENT

In a multisite, clinical trial, red fluorescence on MolecuLight *i:X* images was indicative of bacterial loads of $\geq 10^4$ CFU/g (moderate/heavy levels) 100% of the time.⁴ This real-time information, used in conjunction with clinical signs and symptoms, may assist a clinician in their wound assessment and treatment plan.



DEBRIDEMENT

In clinical studies and case series, the MolecuLight *i:X* has been shown to demonstrate the need for debridement, identify the extent of debridement required, and facilitate targeted debridement to areas where fluorescent bacteria are located.^{3,6,9}



DOCUMENTATION

Provides objective documentation of the presence of fluorescent bacteria³⁻⁷ and the surface area of the wound.^{1,2}



ANTIMICROBIAL STEWARDSHIP

In case series, real-time fluorescence images prevented potentially unnecessary use of systemic and topical antibiotics in wound patients⁶ and identified asymptomatic wound patients with heavy bacterial burden, prompting antibiotic prescription.^{6,14}



CLEANING

In case series, the MolecuLight *i:X* has been shown to direct clinician focus for cleaning to areas where fluorescent bacteria are located,^{6,8} thereby optimizing wound bed preparation.⁸



SAMPLING

Guides where to sample;^{4-6,10} in a clinical trial, fluorescence targeted sampling was more accurate than standard practice in detecting the presence of moderate to heavy bacterial loads.⁵ A meta-analysis reported an average fluorescence-guided sampling accuracy of 86%.¹¹



TREATMENT SELECTION

In a case series, fluorescence images provided real-time, objective documentation to support skin graft procedures;¹¹ planned grafting procedures were halted when fluorescent bacteria were visualized.¹¹ Clinical studies have shown that fluorescent images also provide real-time objective feedback on treatment plan effectiveness.^{6,11-13}



PATIENT ENGAGEMENT

In a clinical case study, fluorescence images facilitated patient engagement and were associated with an improvement in patient treatment plan adherence.¹⁵ Patients easily understood the bright colors on images in regions where fluorescent bacteria were present.¹⁵



MolecuLight *i:X*TM

Wound Imaging Device



Bacteria appear red or cyan in image.



Easy

Portable, touch-screen device with an intuitive interface.^{7,10}



Safe

No contrast agents and no patient contact required.^{4,7,10}



Precise

Allows for more targeted treatment protocols by knowing exactly where fluorescent bacteria are.³⁻⁷



Efficient

Clinical studies have shown that fluorescent images assist in targeting sampling and debridement, and inform the decision whether or not to use an antimicrobial product.³⁻⁶



Fast

A clinical study reported that the acquisition of real-time fluorescence images takes less than 30 seconds.⁷



Focused

Allows clinicians to focus on areas that may contain harmful bacteria with the guidance of fluorescence imaging.⁴⁻⁶

References:

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The MolecuLight *i:X*TM Imaging Device is approved by Health Canada (Medical License #95784) and has CE marking (Certificate #G1160292355002) for sale in Canada and the European Union. The MolecuLight *i:X*TM Imaging Device has received FDA De Novo clearance, please see <https://us.moleculight.com/> for USA specific intended & indications for use.

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