



*This novel technique equips wound care specialists with a powerful new diagnostic tool for assessing wound healing status and predicting healing trajectory to manage problem wounds.*

McMaster - Industry Liaison Office

## Tech ID

17-048

## Inventors

M. Stacey

S. Phillips

## Patent Status

PCT filed

## Stage of Research

Validation studies in progress

## Contact

Carmen Carrasquilla –  
Business Development Officer  
905-525-9140 ext. 21088  
carrasc@mcmaster.ca  
<http://milo.mcmaster.ca>

## Abstract

Chronic wounds due to venous disease or diabetes, which often exhibit impairments in healing, represent a significant healthcare burden due to high costs associated with treating these complications. Currently the leading approach to determine if a wound is healing is by repeated surface area measurements over multiple weeks to evaluate if the wound is decreasing in size.

Testing for specific wound biomarkers discovered by McMaster physician researchers can identify slow-to-heal wounds and guide treatment decisions more rapidly. This novel technique equips wound care specialists with a powerful new diagnostic tool for the management of problem wounds.

## Applications

- Diagnostic tool to determine the healing status of a wound
- Guide treatment regimens for chronic wounds
- Monitor healing process and response to treatment in patients with chronic wounds

## Advantages

- Novel biomarkers for evaluating if a wound is on a healing or non-healing trajectory
- Higher accuracy and stronger predictive power compared to current methods
- Allows care givers to adapt their wound treatment approach more quickly than with current methods