

The Singapore Wound Registry



World's first major wound care registry based on Asian data in a tropical climate.

A national partnership between all 3 healthcare clusters in Singapore – National University Health System, National Healthcare Group and SingHealth.



Captures systematic key anonymized information from patients and clinics that serve to inform healthcare providers on opportunities to deliver and improve the quality of wound care.



“WCIT is a huge programme focused on an area of unmet need. It will provide a range of key learnings and innovations that will ensure patients with wounds who live in the tropics receive the best possible care of a globally leading standard.”

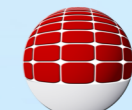
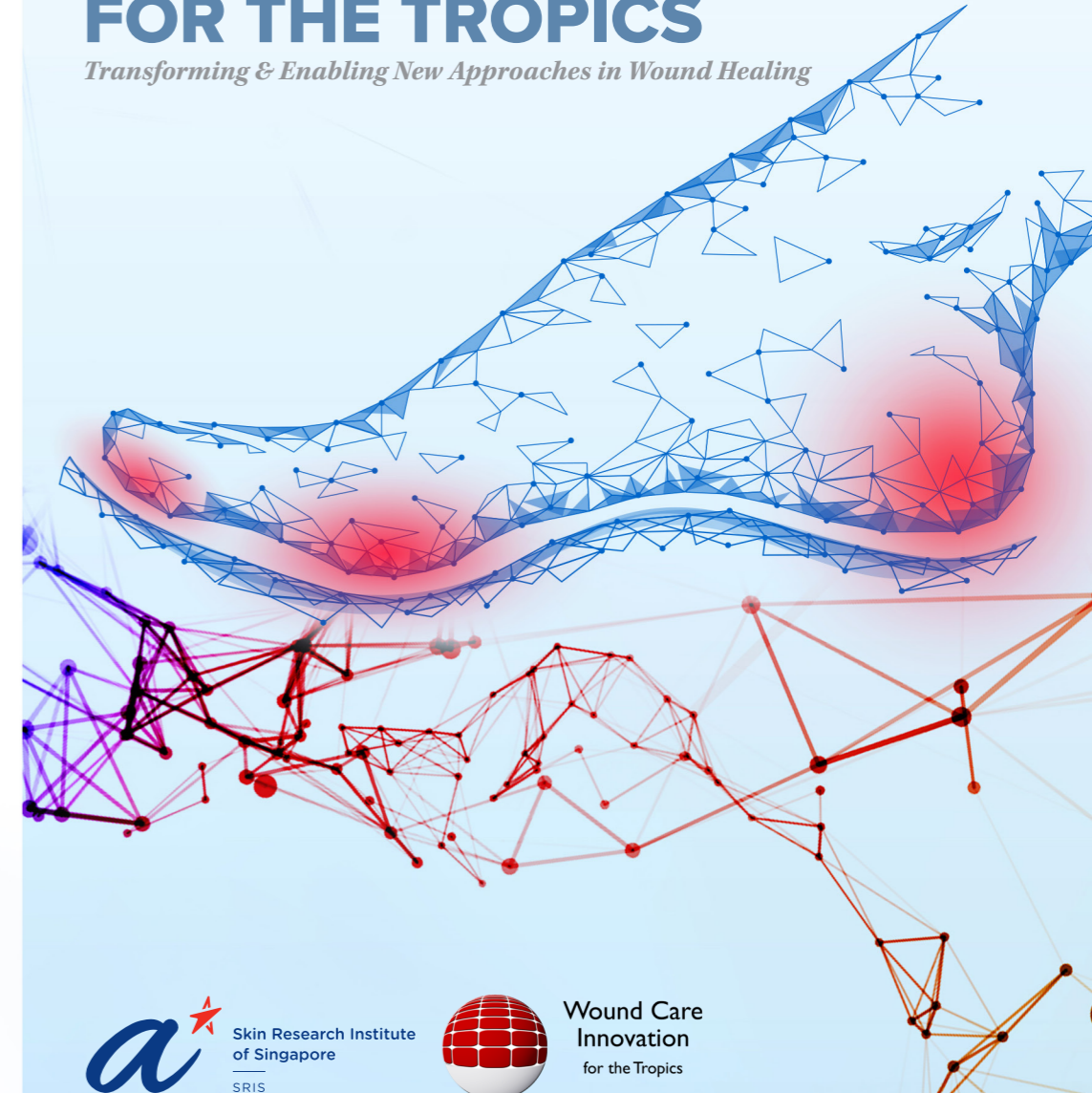
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WOUND CARE INNOVATION FOR THE TROPICS

Transforming & Enabling New Approaches in Wound Healing



Wound Care Innovation for the Tropics

Overview

Chronic Wounds pose a significant burden to healthcare systems, accounting for up to 10% of healthcare expenditure in developed nations. Further, predicting wound healing is challenging for wound care professionals.

The **Wound Care Innovation for the Tropics (WCIT) programme** is a first-of-its-kind research programme in the world to focus on wound care in tropical climates.

We aim to transform the care of hard-to-heal chronic wounds and reduce the economic and social burden created by this silent epidemic. The programme focuses on accelerating the development of novel wound care therapies and practices, to transform how chronic wounds are detected, managed and monitored to accelerate the healing process. This will be achieved through:



Better stratification of wounds



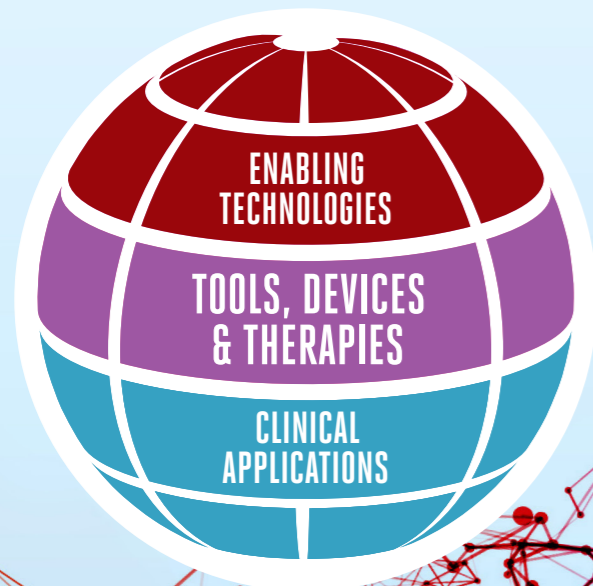
Effective discrimination between healthily colonised and infected wounds



Stimulation of healing, leading to a shorter time to wound closure

The integrated research activities in the WCIT Programme encompass the spectrum from quality improvement to disruptive technologies - this will enable product, service, process, system and social innovation in the wound healing space.

Harnessing the best in science, technology and clinical understanding, the WCIT programme uniquely positions Singapore as the go-to Research and Innovation hub for chronic wound healing. More importantly, the programme charts a path to change the paradigm of wound care and healing, in Singapore and beyond.



Enabling Technologies



“OMICS” analysis of the wound environment

- Involves investigation of the dynamic changes within the wound environment, through proteomics, metabolomics and microbial genotyping derived from one of the world's largest libraries of wound samples.
- Allows identification of diagnostic biomarkers and new therapeutic targets for use in precision medicine.
- Fosters a better understanding of wound microbiome and biofilms.



In vitro and in vivo models of wound healing

- Development of improved models for pre-clinical investigation and evaluation of new therapies and skin integrity products to enable the transition to clinical trials.



Tools, Devices & Therapies

Proof-of-concept projects include:



Development and validation of new portable imaging tools, diagnostic tools, and advanced wound dressings for clinical use, with a focus on primary care.



Creation of novel therapeutic approaches for enhanced wound healing.



Clinical Applications



Wound clinical trial capabilities and coordination

- Conduct of clinical trials for novel interventions in collaboration with healthcare providers from multiple disciplines.
- Development of a coordinated approach for clinical validation and safety studies.



Health services and economics research

- Guides healthcare providers on the burden of wounds for the individual patient and the healthcare system.
- Development of new integrated conceptual, methodological and translational solutions to population health challenges, and supporting product development and care strategies.



Singapore-wide multivariable wound registry

- The first-in-Asia national level Wound Registry, capturing quality data to help wound care management in Singapore.

