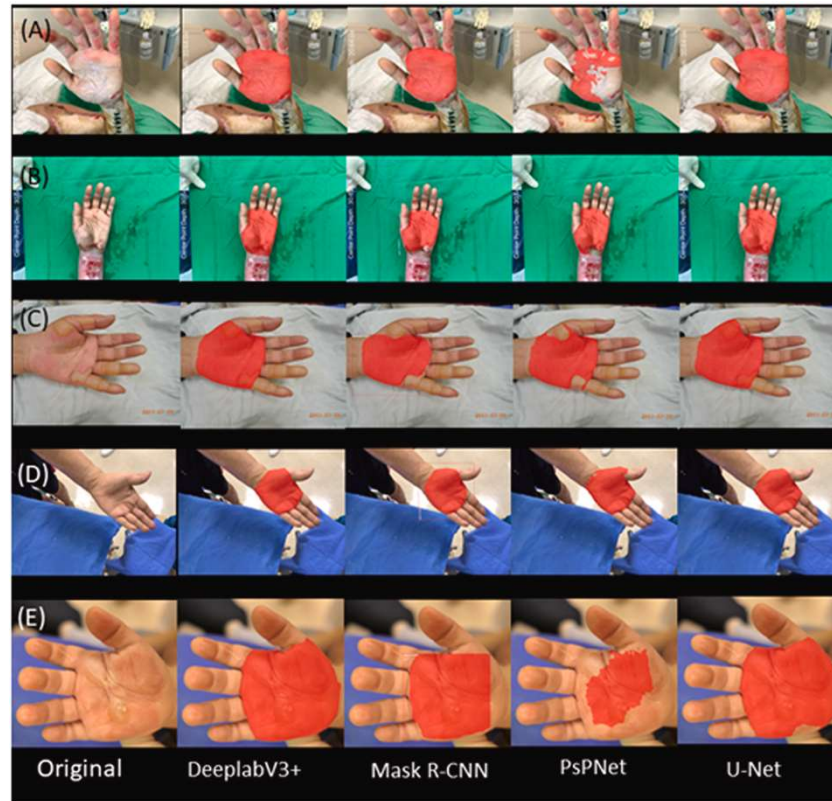
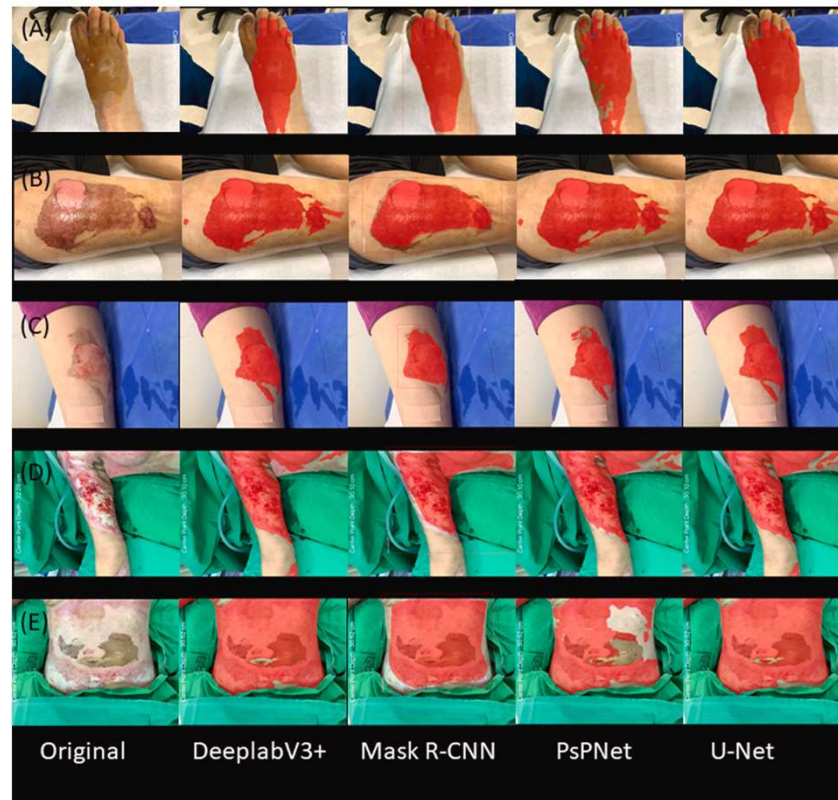


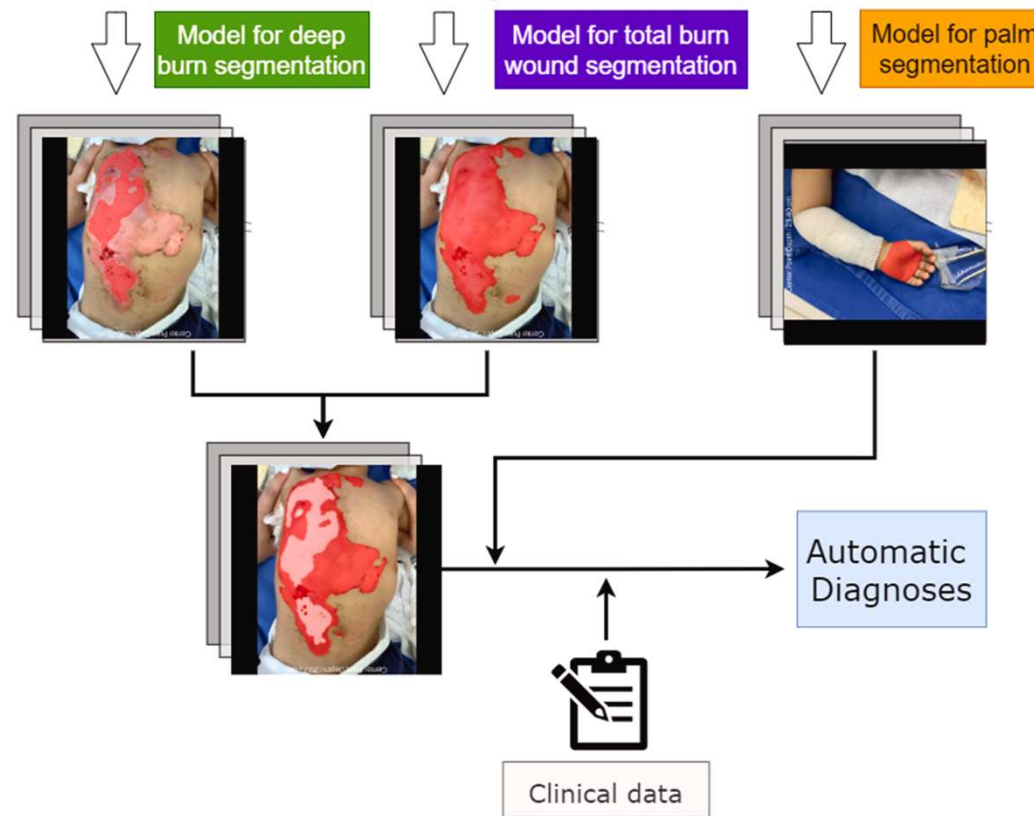
Artificial Intelligence/Machine Learning



Artificial Intelligence/Machine Learning



Artificial Intelligence/Machine Learning



Artificial Intelligence/Machine Learning

中華電信 476 B/s 84% 22:12 中華電信 462 B/s 83% 22:12
 國立臺灣大學 亞東紀念醫院 FAR EASTERN MEMORIAL HOSPITAL
 國立臺灣大學 亞東紀念醫院 FAR EASTERN MEMORIAL HOSPITAL

%TBSA estimation by AI	0.672 %
Deep Burn Ratio	2.021 %
IV in 1st 8 hrs :	Keep Baseline IV
IV in next 16 hrs :	Keep Baseline IV
%TBSA estimated by user	0.800 %
IV in 1st 8 hrs :	Keep Baseline IV
IV in next 16 hrs :	Keep Baseline IV
%TBSA Final Adjustment	0.67 %
IV in 1st 8 hrs :	0.000 ml/hr
IV in next 16 hrs :	0.000 ml/hr

Center Point Depth: 27.73 cm

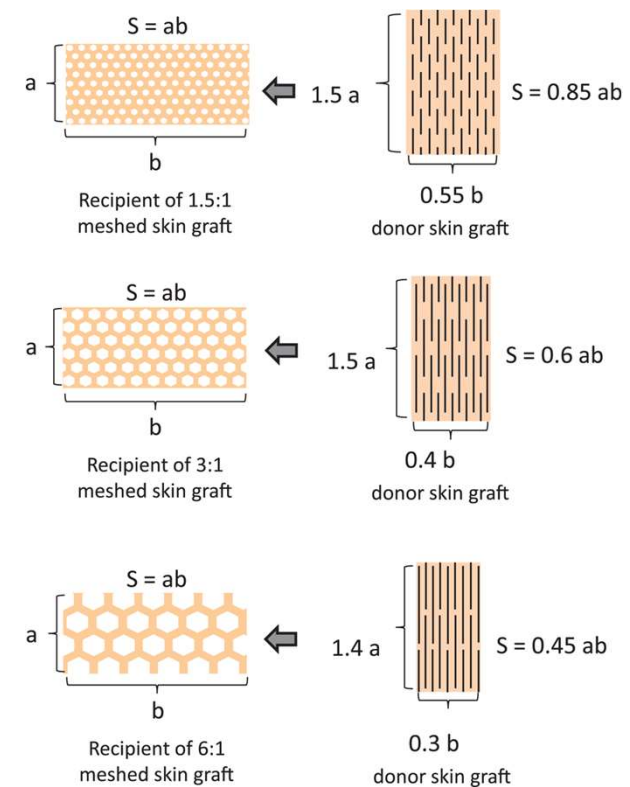
Burns
Center Point Depth: 15.15 cm

Advancements in Wound Closing

Problem: Large %TBSA wounds (>40%) require **significant** donor tissue

Previous Solutions:

1. Wide-spaced meshing (4:1)
2. Repetitive grafting and regrafting



Advancements in Wound Closing

Problem: Large %TBSA wounds (>40%) require **significant** donor tissue

Previous Solutions:

1. Wide-spaced meshing (4:1)
2. Repetitive grafting and regrafting

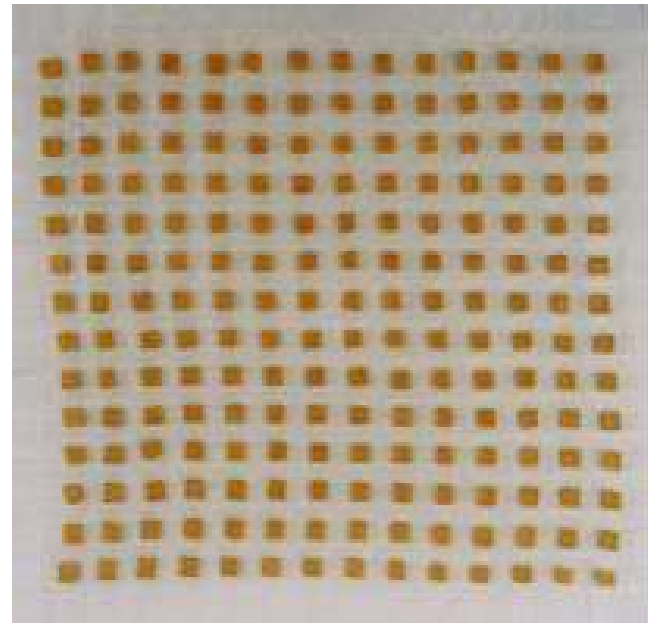


Advancements in Wound Closing

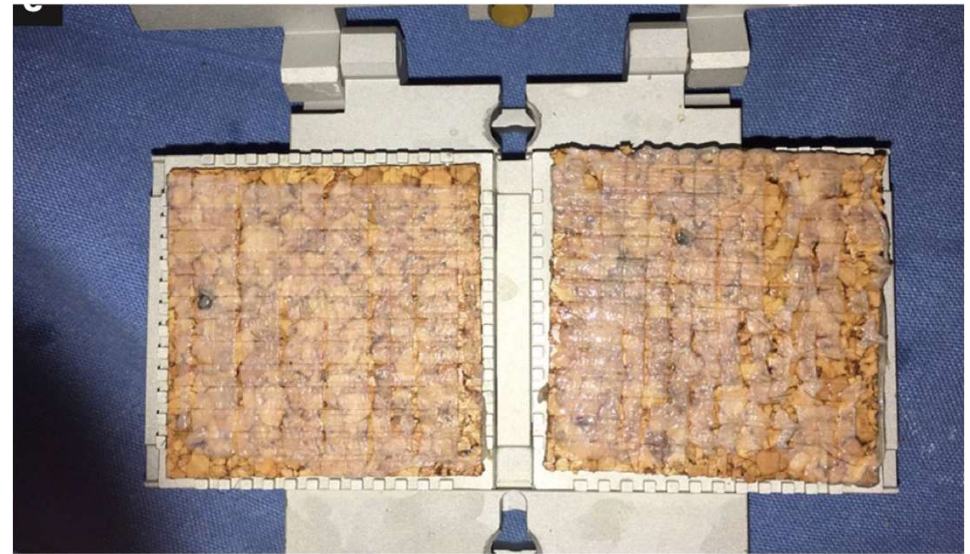
Problem: Large %TBSA wounds (>40%) require **significant** donor tissue

Modern Solutions:

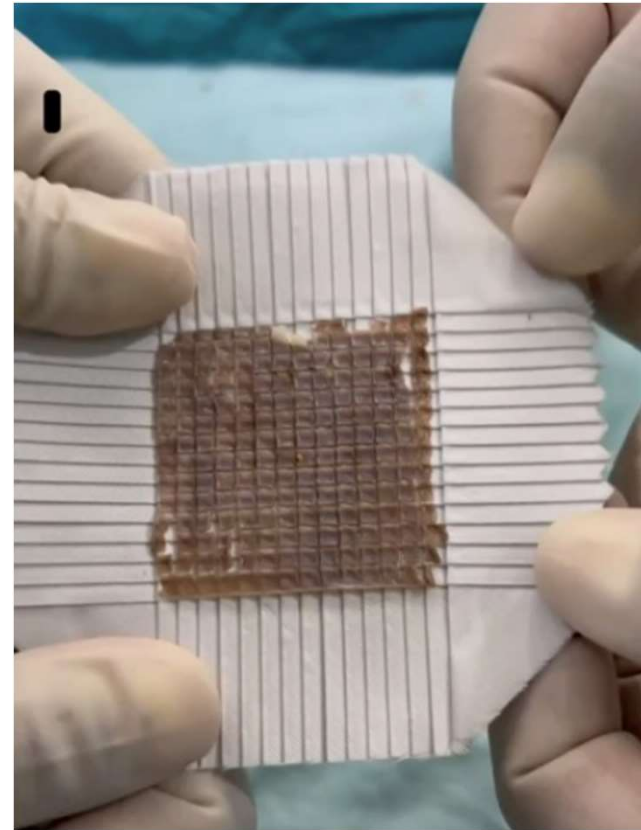
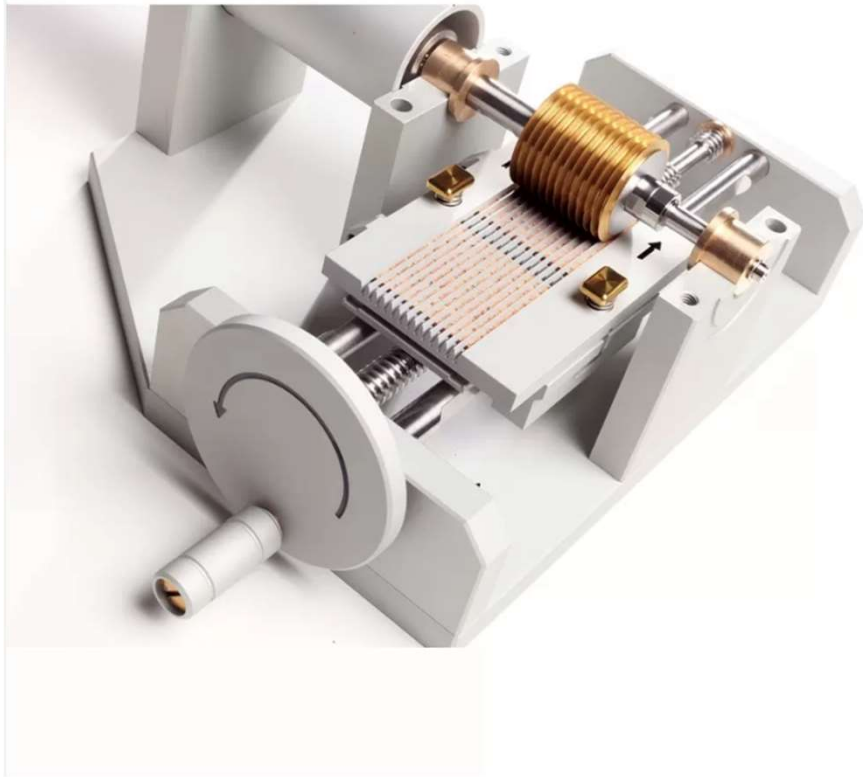
1. MEEK Micrografting (1:9)
2. ReCell Spray-On-Skin



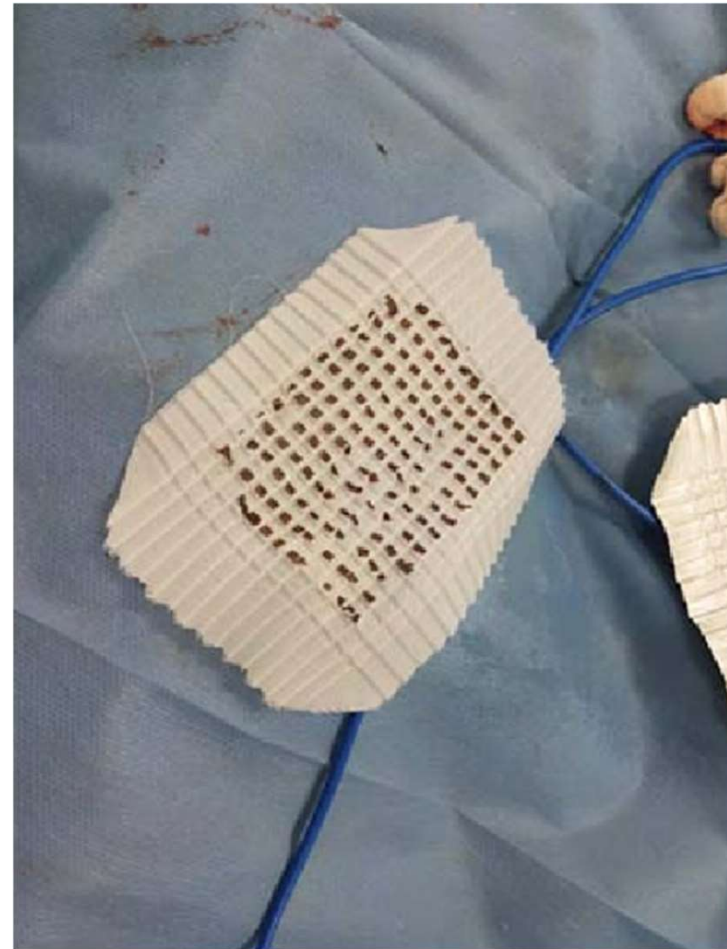
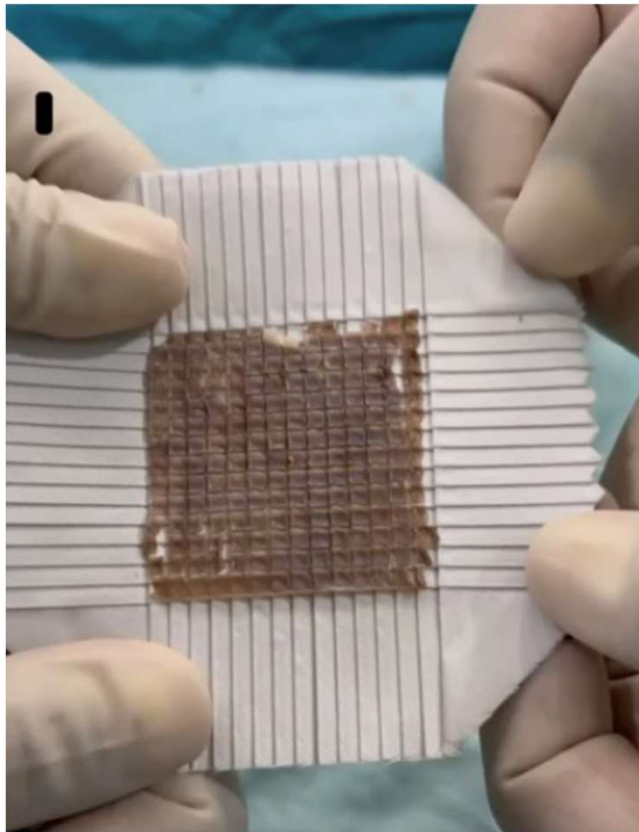
MEEK Micrografting



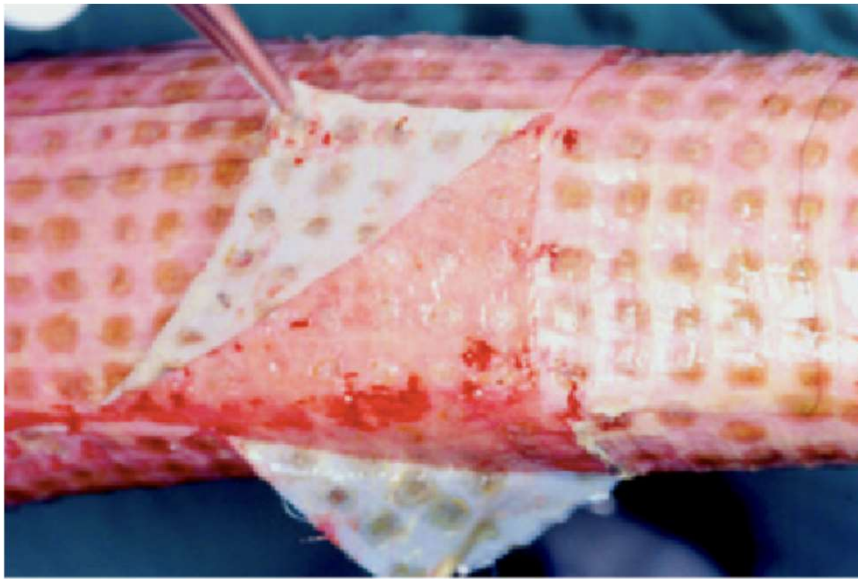
MEEK Micrografting



MEEK Micrografting



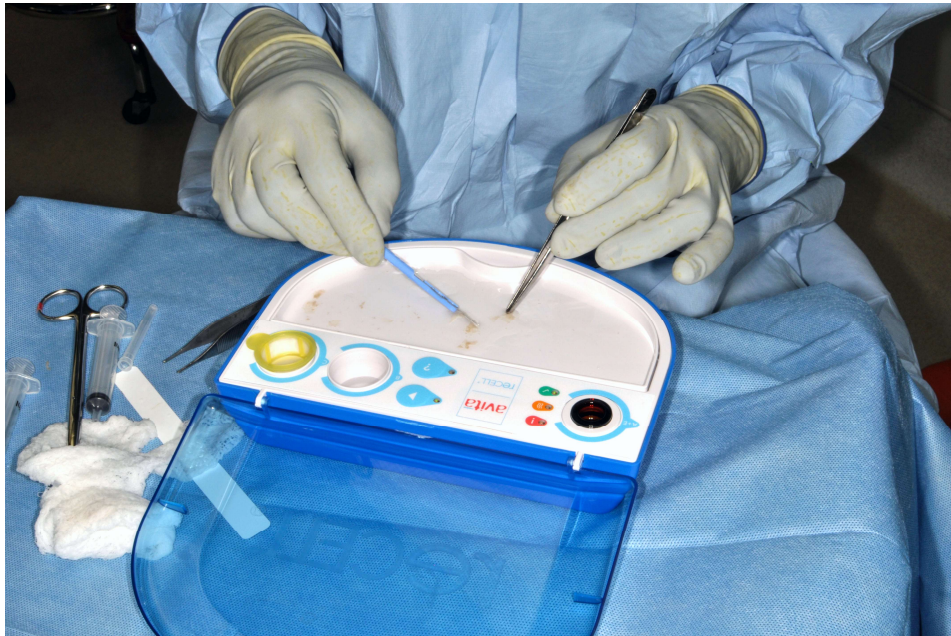
MEEK Micrografting



ReCell Spray on Skin



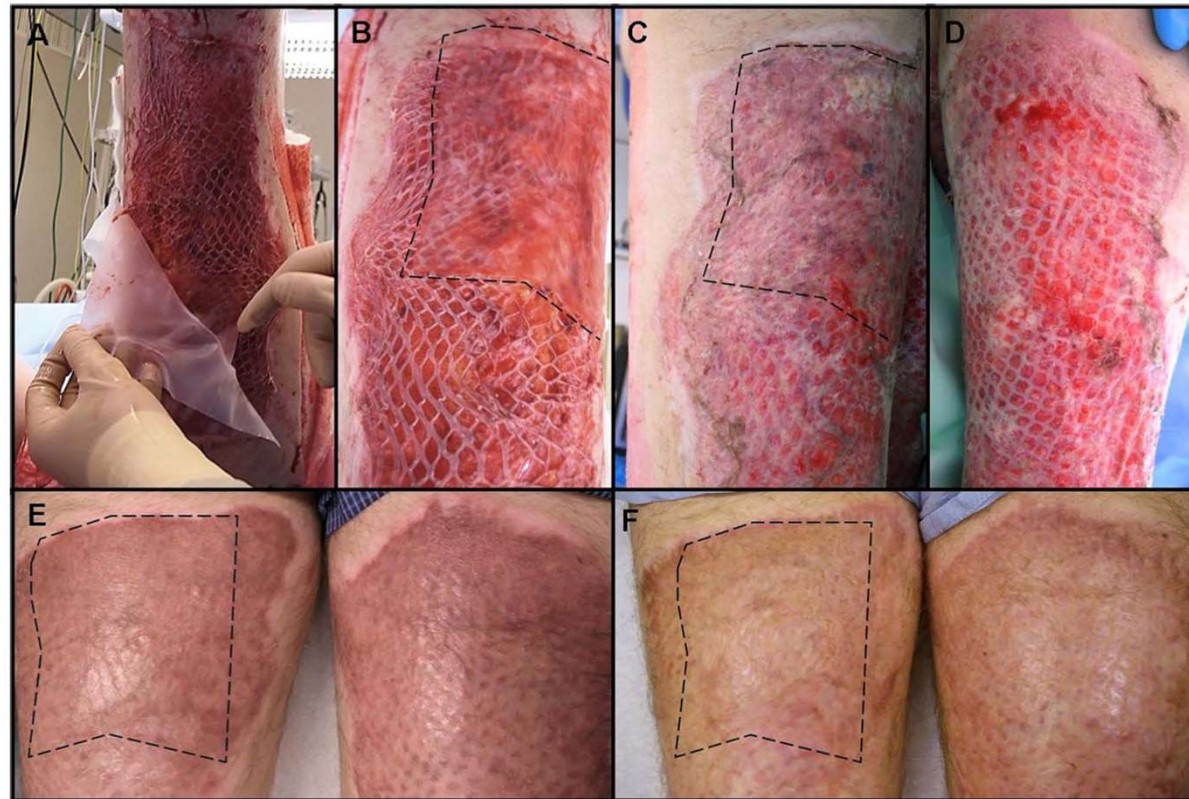
ReCell Spray on Skin



ReCell Spray on Skin



ReCell Spray on Skin



Local Advances

**Modern advances are not always
so modern**

Bara Burns Prevention Program



Bara Burns Prevention Program

Starting Point:

- Majority of burns occur at **home**
- 80% due to **hot water**
- 72% are **3 years** or younger
- 38% receive **no** first aid
- 25% receive **wrong** first aid



QAPHELA

Izingane ezingaphansi kweminyaka emihlanu zisengozini enkulu

Kungenzeka ekhaya lapho kukhona umuntu, nangesikhathi sokupheka, lapho umgezisa ngisho noma nidlala

5

Ukusha esikhathini esiningi kubangelwa amanzi ashisayo

Ukusha kubucayi. Ukusha kungavinjelwa

Asibanakekele ngathi siyabazala, anti

Surgeons for little lives

GAUTENG PROVINCE

surgeonsforlittlives.org

Bara Burns Prevention Program

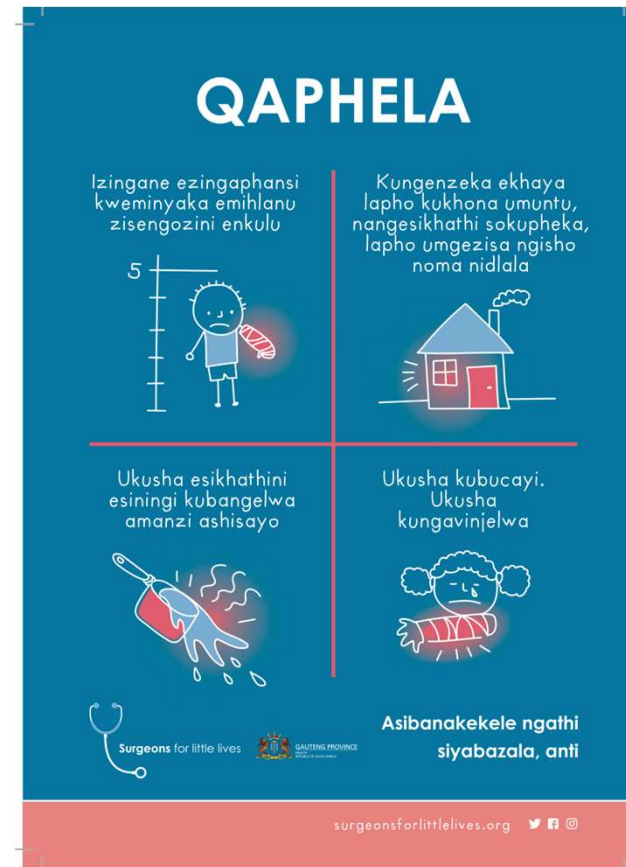
Prevention over Treatment

Target Areas:

- General Awareness
- Risk Reduction
- Appropriate Action

Mechanism:

- Simple message
- Local language
- Multimedia approach
- Repetitive messaging



Bara Burns Prevention Program

Health Promotion Sites via SFLL Community Health Care Worker

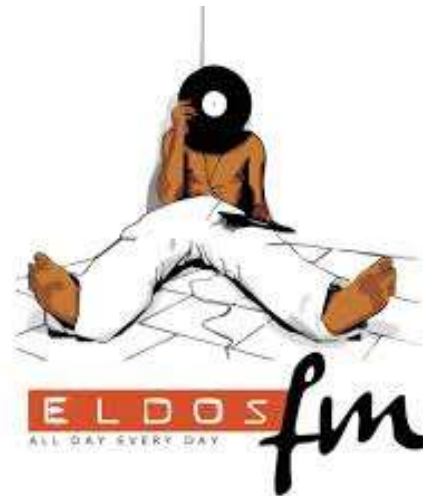
- Lenasia Clinic
- Lenasia South Clinic
- Chiawelo Clinic
- Discoverers' Clinic
- Alexandra CHC
- Diepkloof Clinic



Bara Burns Prevention Program

Multimedia Information Campaign

- Social media
- Radio programming
- Print and digital media



Bara Burns Prevention Program

Multimedia Information Campaign

- Social media
- Radio programming
- Print and digital media

Burn Awareness and Prevention in Children

We have started a burns prevention project at CHBAH with materials developed by Greengrass through the support of SFL. Please help us to create awareness!

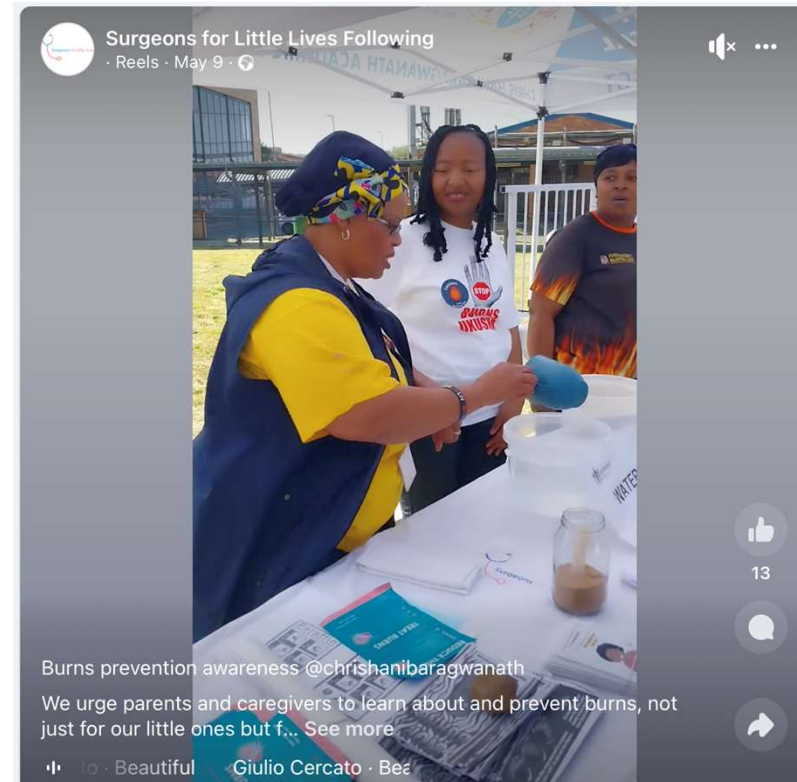
Understanding Burns ~ Awareness



Bara Burns Prevention Program

Multimedia Information Campaign

- Social media
- Radio programming
- Print and digital media



Bara Burns Prevention Program



Future Planning

Assess effectiveness of the programme:

- Study being planned
- Future health promotion and injury prevention





Questions?



UNIVERSITY OF THE WITWATERSRAND,
JOHANNESBURG

Department of
Paediatric Surgery
& Child Health



Surgeons for little lives