

Project Title: Development and Evaluation of stickREMs: Novel Omani Nature-Derived Medical Dressings.

Students: Sara Al Mawali, Maather Al Selemi, Eman Al Kindi ,Sara Al Amri, Ibrahim Al absi

Supervisor: Dr. Einas Osman & Dr. Rayya Al Balushi

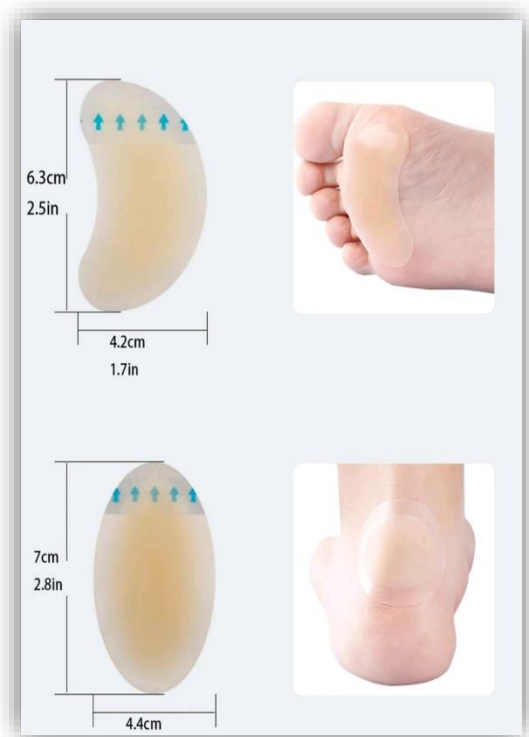
College/Center: College of Applied and Health Sciences.

Abstract:

This study presents the development and comprehensive evaluation of StickREMS, a pioneering medical dressing crafted from natural ingredients sourced from Oman's diverse ecosystem. The formulation process involved harnessing the inherent properties of Omani botanicals, minerals, and other organic materials to create a gel-based dressing with therapeutic benefits. The evaluation encompasses various aspects, including efficacy in wound healing, biocompatibility, cosmetic appeal, and sustainability. Results demonstrate the potential of StickREMS as an effective and aesthetically pleasing solution for wound care, with minimal ecological footprint. This research contributes to the advancement of sustainable medical innovations by leveraging the abundant resources offered by nature.

Objectives of this study

- Providing a solution for diabetics, as we have designed a special medical adhesive for them that protects and treats them quickly and also provides a therapeutic substance for them.
- Exploiting national wealth to provide a solution that keeps pace with global health.
- Solving the problem of pollution, as this adhesive solves the problem of environmental pollution by replacing plastic adhesives with stickREMS , as it is environmentally sustainable and biodegradable.

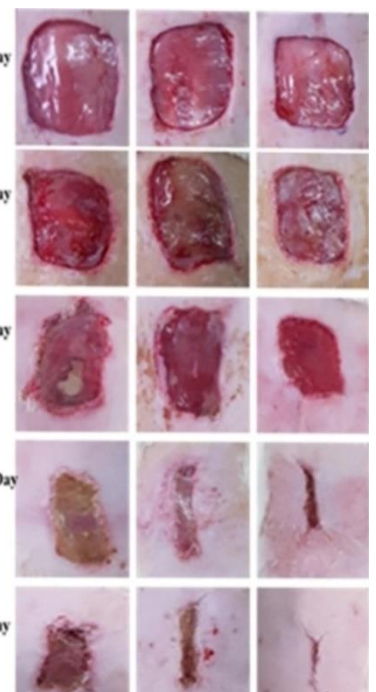


Results & Discussion

We applied it to mice to demonstrate the validity of this study. These results require more than one experiment to prove them.



Open the wound to
try the ointment on it



These results show a study of 3 mice with the same wound on which we tested our ointment and other ointments from other herbal companies. The third mouse is the one on which we tested the REMS ointment.



Our participation in Sultan
Qaboos University