ADVANCED CUTANEOUS EVALUATOR- Kiur©

PROTECTION

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BACKGROUND

Chronic wounds are difficult to manage due to the wide variety and combination of possible characteristics, as well as the proliferation of specialized dressings that complicate the selection of appropriate treatment. This condition, which accounts for up to 5% of healthcare expenditure, mainly affects elderly patients or those with reduced mobility, and is often managed by nursing staff with varying levels of experience in the field. This results in high variability in treatment choices, prolongs recovery, and increases costs.

In response to this problem, the need was identified to develop a digital tool to support clinical decision-making for nurses in the treatment of chronic wounds, optimizing product use and standardizing care, especially in settings with a shortage of expert personnel. Researchers in this field have focused on creating a digital solution that centralizes and simplifies access to relevant clinical information, enabling more consistent, efficient, and evidence-based decision-making.

ACHIEVEMENTS AND RESULTS

KIUR© is a clinical decision support system (CDSS) that, through its **digital platform (ACE)** accessible via a mobile application, uses artificial intelligence based on deep learning to analyze images of chronic wounds and images of chronic wounds and, together with the information provided by the healthcare professional, recommends the most appropriate topical treatment from the catalog of products available at each institution.

ACE reduces variability in treatment, accelerates healing, and lowers associated costs. Its explainable algorithm ensures traceability and standardization of treatment, adapting to available resources and facilitating use by professionals with different levels of experience, establishing it as a standard in chronic wound management.

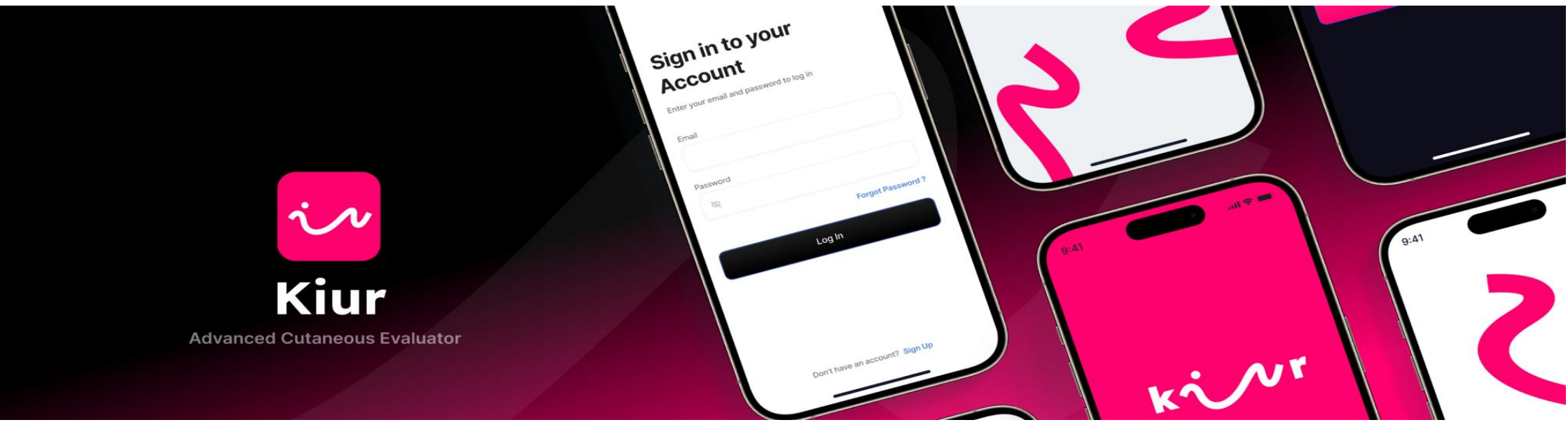
PURPOSES AND ADVANTAGES

The **main advantages** of this technology are:

- It provides objective and standardized support for selecting the optimal treatment for chronic wounds, reducing clinical variability.
- It uses advanced artificial intelligence to analyze images and detect tissue types, combining this information with clinical data for personalized recommendations.
- It adapts recommendations to the catalog of products available at each institution, ensuring practical applicability.
- It facilitates decision-making even by non-expert staff, improving confidence and reducing the mental workload of healthcare professionals.
- It helps accelerate healing, improve clinical outcomes, and reduce the costs associated with chronic wound treatment.
- It is designed for use in settings with a high prevalence of chronic wounds, such as primary care and nursing homes, benefiting patients, families, and healthcare providers.
- It will be certified as a class IIa medical device, with high-quality evidence supporting its safety and effectiveness.
- It does not require specialized equipment, operating on common mobile devices, which facilitates its implementation in different centers.

COLLABORATION OFFER

Searching for partners for the commercialization of the product.
If you are interested in or need more information about the KIUR® Application Tool, please contact us.



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