



**GOTU KOLA (CENTELLA ASIATICA) AND BAMBOO FIBER
BANDAGES AS WOUND HEALING PATCH**

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ABSTRACT

Effective wound care is critical in protecting the body's largest organ, the skin, which plays an important role in maintaining physiological equilibrium and protecting against the external environment. From 2011 to 2018, data show that open wounds were the most common type of injury among patients in the Philippines, accounting for 37.56% of reported cases. In 2014, this sort of injury claimed the most fatalities among trauma victims (Imee et al., 2020). This research led to the development of innovative wound care treatments that combine the benefits of Gotu Kola with bamboo fiber to improve wound healing efficacy. It provides useful information about the feasibility, safety, and efficacy of integrating these natural materials for advanced wound care applications. White mice are employed as test subjects to evaluate the efficacy of medicated pads because their skin conditions are standardized, making them ideal for studying changes in skin health over time. The study results show that Gotu Kola and bamboo fiber bandages have a

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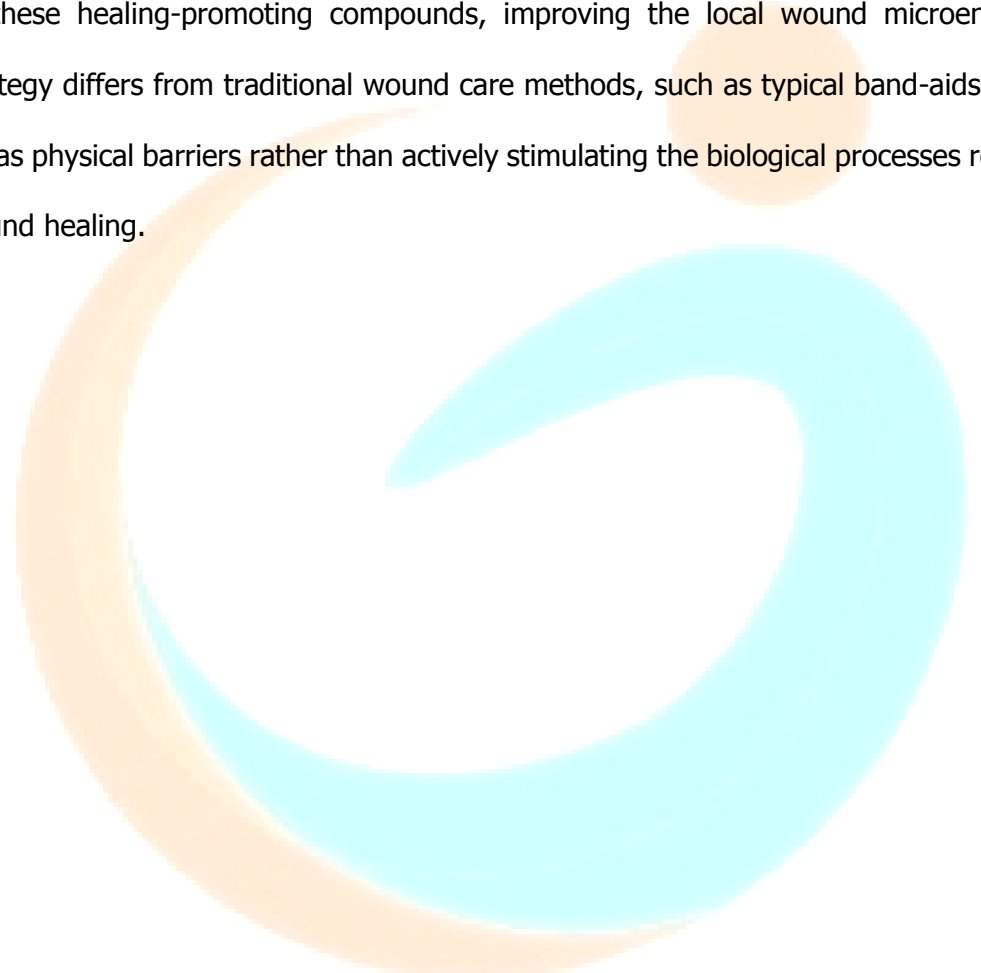
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significant impact on wound healing during a 7-day period. The inclusion of Gotu Kola extract in the bandage formulation played a critical role in boosting tissue regeneration through different mechanisms. The persistent and targeted distribution of bioactive components from Gotu Kola extract within the bamboo fiber bandage guaranteed that the wound site was constantly exposed to these healing-promoting compounds, improving the local wound microenvironment. This strategy differs from traditional wound care methods, such as typical band-aids, which primarily act as physical barriers rather than actively stimulating the biological processes required for quick wound healing.



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