

Abstract

This research investigate the utility of *Plantago ovata* (psyllium) as a foundational element for a cost-effective, nationally embraced product designed to mitigate pediatric burn sequelae. Central to this research is the objective assessment of the extract's efficacy in ameliorating the dermatological repercussions of thermal injuries among children. This investigation is anchored in the premise of furnishing economically viable, environmentally sustainable therapeutic modalities through the utilization of natural resources, thereby delineating a novel paradigm in burn care that harmonizes economic considerations with ecological stewardship.

In the empirical phase, the research team formulated an extract derived from *Plantago ovata* and administered it to a pediatric subject afflicted with first-degree burns. Observational data, systematically catalogued in a tabulated format and supplemented by photographic documentation, revealed a marked diminution in dermal irritation and erythema, thereby empirically corroborating the hypothesized therapeutic potential of the *Plantago ovata* extract in the context of burn treatment. The successful outcome of this trial underscores the extract's capacity to serve as a palliative agent for burn-induced cutaneous disturbances.

Subsequent qualitative methodologies, including interviews, facilitated a deeper comprehension of the botanical properties of *Plantago ovata*, whilst engagement with regulatory bodies and dissemination through various media platforms underscored the feasibility of integrating this botanical extract into the healthcare marketplace. This research delineates a scalable model for leveraging phytotherapeutic agents in pediatric burn care, offering a blueprint for the development of cost-effective, sustainable healthcare solutions that prioritize patient well-being and environmental integrity.