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Formulation and Evaluation of Dental Gel by using Moringa Leaves

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Abstract: *This study aimed to formulate and Evaluate a dental gel utilizing the anti- Inflammatory properties of Moringa Oleifera leaves extract. The gel was Prepared using a simple method, Incorporating various concentrations of Moringa extract to determine the Optimal formulation. Evaluation Parameters included pH, viscosity, Spreadability, and in vitro release Kinetics.*
Additionally, the anti- Inflammatory activity of the formulated Gel was assessed using an in vitro Model. Moringa oleifera is a highly potent medicinal plant that has anti-inflammatory and immuno-modulatory properties. In our study, we aim to design, formulate, and evaluate the antibacterial efficacy of M. oleifera extract for local drug delivery (LDD) as periodontal treatment.Moringa oleifera, known as the "drumstick" or "horseradish" tree, is believed to have medicinal properties regarding a range of medical conditions, though there is limited information on its use in oral medicine. This narrative review focuses on the use of Moringa extracts in the management of oral conditions, including oral infections, inflammatory conditions, the remineralization of hard tissues, oral wound healing, and tissue regeneration, drawing from both in vitro and in vivo studies which indicate that the potential of Moringa extracts isupporting dentin-pulp regeneration after caries or trauma is worthy of more careful consideration.

Keywords: dental gel

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