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Research Abstract

Type 2 diabetes mellitus have reached epidemic proportions worldwide. Hence the percentage of secondary complications including diabetic wounds has increased exponentially for the last few decades. Sadly, the treatment options currently available to treat diabetic wounds pose significant challenges in reaching target site of wound or infection. Consequently, recent trends leaning towards developing novel topical products that target diabetic wounds at the site of infection either by reducing the inflammation or infection. In regards, mounting evidences suggest that n-3 fatty acids, including eicosapentaenoic acid (EPA), docosahexanoic acid (DHA) are beneficial in combating diabetic wounds. But their effectiveness in treating diabetic wound depends on preserving their functionality and bioavailability. Moreover these compounds are both very unstable, water insoluble and have very unpleasant aroma. Hence we propose to use microencapsulation technology to overcome the drawback. In this we propose insights on the development and applications of Nano/micro encapsulated formulation, including EPA, DHA loaded Chitosan wound matrix.

Fellowships: Govt/Non-Govt: No

Awards & Scholarships:

- Published 01 National and 05 International journals with high impact factor of 7.42

Way Forward:

Next coming 5yrs iam going to do the development of EPA/ DHA loaded Chitosan scaffold and it's potential to treat Diabetic wounds matrix type of formulation in Nano/ micro encapsulation. Significantly challenges in reaching target site of wound (or) infection to treat the diabetic wounds.