

Formulation and Characterization of Antimicrobial Chewing Gum Delivery of Some Herbal Extracts for Treatment of Periodontal Diseases

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Abstract : Chewing gums are mobile novel drug delivery systems, with a potential for administering drugs either for local action or for systemic absorption via the buccal route. An antimicrobial chewing gum delivery system of the methanolic extracts of Beatea monosperma (barks and twigs), Cordia obliqua (leaves and seeds) and Cuminun cyminum (seeds) against periodontal diseases caused by some oral pathogens, was designed and characterized on various parameters. The results of the study support the traditional application of the plants and suggest, plant extracts possess compounds with antimicrobial properties that can be used as potential antimicrobial agents and gums can be a good carrier of herbal extracts. Developed formulation will cure/protect from various periodontal diseases. Further development and evaluations chewing gums including the isolated compounds on the commercial scale and their clinical and toxicological studies are the future challenges.

Keywords : periodontal diseases, herbal chewing gum, herbal extracts, novel drug delivery systems

Conference Title : ICPNDDS 2016 : International Conference on Pharmaceutics and Novel Drug Delivery Systems

Conference Location : London, United Kingdom

Conference Dates : April 22-23, 2016