

# Effect of 4% mangosteen gel as local drug delivery in adjunct to non-surgical periodontal therapy on gcf total antioxidant capacity levels and clinical parameters in chronic periodontitis patients- a placebo controlled, split mouth clinical trial

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## ABSTRACT

A review of the recent literature reveals an increase in the application of herbal extracts for the treatment of periodontal disease. 4% *Garcinia mangostana* L, known also as the mangosteen tree has been studied extensively for its anti-microbial, anti-inflammatory and anti-oxidant properties. However, there are very few scientific reports on the application of these properties for the treatment of periodontal disease. The aim of the present study was to evaluate the anti-microbial, anti-inflammatory and anti-oxidant properties effects of *Garcinia mangostana* (GM) L. pericarp gel when used adjunctively in the treatment of chronic periodontitis patients.

## Biography

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## Recent Publications

1. Liu QY, Wang YT, Lin LG. *Food Funct.* 2015 Feb;6(2):383-93. doi: 10.1039/c4fo00758a. PMID: 25520256.
2. Pedraza-Chaverri J, Cárdenas-Rodríguez N, Orozco-Ibarra M, Pérez-Rojas JM. *Food Chem Toxicol.* 2008 Oct;46(10):3227-39. doi: 10.1016/j.fct.2008.07.024. Epub 2008 Aug 6. PMID: 18725264

3. Mohamed GA, Al-Abd AM, El-Halawany AM, Abdallah HM, Ibrahim SRM. *J Ethnopharmacol.* 2017 Feb 23;198:302-312. doi: 10.1016/j.jep.2017.01.030. Epub 2017 Jan 18. PMID: 2810838

**Citation:** Ovalle-Magallanes B , Effect of 4% mangosteen gel as local drug delivery in adjunct to non-surgical periodontal therapy on gcf total antioxidant capacity levels and clinical parameters in chronic periodontitis patients- a placebo controlled, split mouth clinical trial