Flavonoids and Tannins Phenols from Mangrove Plant: An Effective Solution against Gingivitis

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Objectives: This study was designed to determine whether there is effect of the compounds Flavenoids, Tannins Phenols existing in the Mangrove plant on the bacteria that cause inflammation of the gum. Methods: The study tested the affect of the Mangrove plant extracts containing these compounds to eliminate the bacteria. Extraction was performed by the "Jenkinson & Ladd method". Two extracts were collected an aqueous phase and an alcoholic phase. Each extract was further separated into five fractions utilizing spectrometric protocol. The flavonoids and tannins phenols fractions were tested separately and in combination. Data were collected using the disc method of antibiotic. sensitivity testing for Treponema Fusobacterium and Teeth Fusobacterium samples that cause inflammation of periodontal abscess teeth and gums. Results: The extracts were tested on a range of bacteria including Treponema Fusobacterium. Flavenoid and Tannins fractions resulted in 36% and 93% elimination, respectively. Using the two fractions in combination at 150 ml concentration had the most effect eliminating 93%. Bacteria were eliminated by 84% in 48 hours and 93% after two hours and 23 minutes on the third day (what combination/concentration) Conclusions: The Mangrove plant extract is very effective in eliminating the bacteria that cause gingivitis.

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