SHORT COMMUNICATION

Carica Papaya Mouthwash for Reducing Dental Plaque

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Abstract
Paraguay is a country that uses a lot of herbal products containing plants as active ingredients. The use of herbs is popular mainly to the reason that is safe and easy available. In the case of the mouthwash which is a complement to brushing, the use of Carica papaya has been studied.

Keywords
Papaya, Mouthwash, Herbs

Nowadays the trend is to use natural health products due the quest for suitable and affordable alternatives. This is especially common in Paraguay, which is a country that uses a lot of herbal products containing plants as active ingredients. Herbs are being widely explored to discover alternatives to synthetic antibacterial agents as they are easy available, cost effectiveness and don’t have any side effects.

Carica papaya is widely cultivated in tropical and subtropical countries and is used as food as well as traditional medicine to treat a range of diseases [1]. Carica papaya seeds contain chemical compounds such as saponin, tannin, alkaloid and flavonoid which are able to exhibit anti-inflammatory and antibacterial activity [2]. The use of Carica papaya as a mouthwash has been studied.

A clinical trial concluded that the Carica papaya leaf extract dentifrice is effective in the reduction of gingival bleeding and inflammation [3]. The findings in this study indicate that Carica papaya mouthwash used alone is safe, as mentioned in an in vitro study [4], but does not inherently mean the absence of any adverse outcomes.

Another clinical trial concluded that an herbal mouthwash of dried seeds of C. papaya as an adjunct to scaling provides more favorable approach in the treatment of plaque-induced gingivitis, periodontitis and also oral malodor [5]. This study remarks that the proportionate high amount of tannins in the seeds of C. papaya explains its strong antimicrobial activity.

Other clinical trial study showed that rinsing with 10% Carica papaya L. seeds extract mouthwash ware able to reduce dental plaque score in patients with gingivitis [2]. In the case of 2.5% papaya leaf extract solution, the effect in decreasing plaque index and gingival index in moderate gingivitis is the same of 0.2% chlorhexidine according to a study [6].

The limitations of these studies were the small sample and short follow-up. So further research needs to be done on a long time and bigger samples.

References
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mouthwash & a combination of carica papaya with anan-
ascomosus in contrast with chlorhexidene against strepto-
