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**Effect of different concentrations of guava extracts on *Streptococcus* and *Lactobacillus* bacteria**

**Gehan Gaber Allam**  
Ain Shams University, Egypt

**Aim:** The aim of this study was to evaluate the effect of three different concentrations of Guava extract on *Streptococcus* and *Lactobacillus* bacteria.

**Material & Methods:** guava extract was prepared by extracting it from the plant leaves in the laboratory of Faculty of Pharmaceutical Department and three concentration was obtained (1%, 0.5%, 0.25%). Plaque and salivary samples were obtained from volunteer's children patients and *Streptococcus mutans* and *Lactobacillus* bacteria was assessed. The efficacy of the three concentrations was evaluated against those bacteria through a well-diffusion method employing 10 ml of each solution per well.

**Results:** Our results showed that there was a significant difference on using the extracts on *Streptococcus mutans* diameter inhibition zone in 0.25% and 1% concentrations. While on using the 0.5% concentration, there was no significant difference. Regarding the *Lactobacillus* diameter inhibition zone, there was a significant inhibition zone after using guava extract in different concentration including 1% and 0.25% while the 0.5% concentration showed no significant difference.

**Conclusions:** 1% of guava extract showed the highest mean of bacterial inhibition zone followed by 0.5% while the lowest value was found at (0.25%).

Gehan.Allam@bue.edu.eg