

Antimicrobial activity of *Persea Americana* leave extract against *staphilacoccus mutans* from Emuhaya, Western Kenya.

Alwala, Joseck Olukusi

Abstract

Hexane, ethyl acetate, and methanol extracts of of *Persea Americana* leave were tested against the dental caries causing bacteria *Streptococcus mutans* from caries infected patients. Bioactivity of the concentrations of 0%, 5%, 10%, 15%, and 20% of all the extracts showed an increasing (P < 0.05) activity. The concentrations of 20% in all solvents' plant extracts showed the highest bioactivity. The bioactivity strength against *Streptococcus mutans* of the three solvents' plant extracts showed no significant differences (P > 0.05) among each other and had a comparable antibacterial activity to that of chlorhexidine.

Key words; *Persea Americana*, Antimicrobial activity, *Streptococcus mutans*, chlorhexidine