EFFECT OF BABUL AND ALUM ON SALIVARY FLOW AND ORAL BACTERIAL GROWTH

Salma A. Bahanan*, Kamal E. H. ELTahir** Nazeer B. Khan*** and Abdulhadi Abanmi****

ABSTRACT

OBJECTIVES: Compare the effect of Babul and Alum on salivary now, and saliva micro- organisms.

MATERIALS: Ninety volunteers, 20-50 years of were recruited. They were divided into 3 groups. Mouthwashes used- 25 aqueous Babul solution. 6.2 aqueous Alum solution, or distilled water. Unstimulated and stimulated saliva were collected for five minutes. Tile first change to visit one sample was a base line Then after one week (visit 2). Each subject was given 15 ml of ran-domized assigned mouthwash to rinse for one minute daily, then measurements were done after 2 and 4 weeks I visit 3,4). Count of Streptococcus mutans and Lactohacilli were performed.

RESULTS: Results showed that unstimulated saliva in visit one had significantly higher mean values than visit 3 and visit 4 (p<0.05j. However, mean stimulated saliva in visit 2 was significantly lower than visit 3 and visit 4 (p<0.05). There was an observable difference in the count of Strep tococcus mutans. The number of cases with high count was reduced in final assessment to zero, while subjects with low count increased similarly relative to one use of Babul mouthwash. Although there were no significant differences among count of Lactobacillus. both mouthwashes showed a progressive decrease in the subjects with high bacterial count of Lactobacillus. **CONCLUSIONS:** Babul and Alum reduced salivary flow rate after the repeated use, winch could be used in moisture control for denial procedures. Both mouthwashes had antibacterial effect against Streptococcus mulans and Lactobacilli indicating the promising use of these natural sub-stances as antibacterial compounds.

*Assistant Professor. and Vice Dean for Female Section, Faculty of Dentistry, King Abdul Aziz University, Saudi Arabia.

^{**} Professor College of Pharmacy, King Saud University, Saudi Arabia.

^{***} Associate Professor. College of Dentistry. King Saud University. Saudi Arabia.

^{****}Consultant. King Faisal Specialist Hospital and Research Center, Saudi Arabia