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Biochemical and Biological Studies on Denture Adhesives

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Abstract

Background: Denture adhesives are nontoxic, soluble materials applied to the tissue surface of dentures. Denture adhesives are beneficial to the patient in increasing retention, stability, enhanced comfort, improved function; eliminate accumulation of food debris underneath the dentures and in providing psychological satisfaction. The use of denture adhesives has become most common. The dentists are using the denture adhesives to compensate the defects in fabrication procedures or when not able to satisfy the patients expectations of denture retention and stability.

Aims: To study 1) electrolyte composition, 2) Microbiological assessment & 3) Biological effects of DAs available in Indian market.

Materials and methods: DAs are given to the 20 completely upper and lower edentulous patients (age group of 50 - 65 yrs.) attending prosthodontic O.P service of T.N. Govt. Dental College Hospital, Madras. The buffering capacity, electrolytic composition and % of growth of Pathological bacteria are calculated.


Results:

- 1) In case of Fixon powder, all the sodium present was soluble (solubility 100%). Fixon paste had the least value for percent solubility.
- 2) The control swabs showed growth of nonpathogenic bacteria
- 3) The pH of DAs was found to vary from 4.3 {for Fixon paste) to 4.77 (for Dentiro)

Conclusion: This study helps us to know the composition, local and systemic effects for intelligent and informed clinical judgment as to the appropriate use or abandonment of these products

Keywords:

Biological Effects, Denture Adhesives, Electrolytic Composition, Microbial Assessment.

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