

DENTURE FRACTURE

M. CHANTHRAKUMAR*, T. ANANDAMOORTHY, J.A.V.P. JAYASINGHE,
S.N.W. ABEYGUNAWARDHANE AND G.U. PAHALAVITHANA

*Department of Prosthetic Dentistry
Faculty of Dental Sciences, University of Peradeniya, Peradeniya*

The fracture of the dentures is a long standing problem and a common clinical occurrence in Prosthetic Dentistry. The objective of this study is to analyze the prevalence of denture fractures and the predisposing causes, which might help us to reduce the occurrence of denture fractures in the future.

A prospective study was done on 150 denture wearers, attended the prosthetic department, Dental Hospital Peradeniya with the complaint of fractured dentures.

Evaluation and analysis was done regarding personal data relevant history and examination of the denture as well as the denture bearing area.

Analysis shows that there are several causes for denture fractures, among which the anatomical variations and age changes of the denture supporting tissues play a major role. Constructional defects of dentures were also identified as a significant contributing factor.

According to the analysis the most of the fractures (50%) occurred while eating and 35% occurred during cleaning of dentures. Of all the fractures 75% occurred during the first six years of wearing. Which may be due to rapid bone resorption leading to ill fitting the dentures.

The prudence of the clinician in careful examination of denture supporting tissue and denture designing, the appropriate usage of technical procedures as well as the proper advice given to the patients at the time of denture delivery might help to minimize the denture fractures as well as the expenses and the time of the staff.