

**ASSESSMENT OF THE EFFECTS OF REMOVABLE PARTIAL  
DENTURES (RPD) ON ABUTMENT TEETH - A RETROSPECTIVE CASE  
STUDY OF PATIENTS ATTENDING DENTAL SERVICES AT  
ST.FRANCIS COMMUNITY HOSPITAL, KASARANI, NAIROBI  
COUNTY.**

**BY**

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## ABSTRACT

**Objective:** To assess the effects of removable partial denture on abutment teeth on denture wearers.

**Methods:** Ninety-two partially dentate patients were included in this study. Teeth were examined for caries, inflamed gum, teeth mobility and alveolar bone. Removable partial dentures were evaluated for material, stability, retention and occlusion. Comparisons were made between wearers versus non-wearers regarding abutment versus non-abutment teeth. Significant differences in mean values were determined using a paired t-test, General Linear Model and Analysis of Variance. Level of significance was set at 0.05.

**Results:** There were 30 (32.6%) partially edentulous with no removable partial denture experience and 62 (67.4%) denture wearers. Removable partial denture wearers had significantly more coronal caries (37%) and root surface caries compared to non-wearers. However, respondents who had RPDs had problem complaints of their dentures had significantly more attachment loss and pocket depth compared to those who had no RPDs. In partial denture wearers, abutment teeth had significantly more levels of caries and teeth mobility (18%) when compared to non-abutment teeth. Abutment teeth of respondents wearing RPDs had significantly greater scores of caries (37%) compared to those of non-wearers, and lesser scores of inflammation (19%) and alveolar bone loss (6%) compared to those of non-wearers. In addition, abutment teeth of wearers had significantly higher scores of caries and teeth mobility as compared to non-wearers.