

A case report of a removable denture using magnetic attachments for a successful prognosis of the abutment teeth

M. SONE, M. HAMASAKA, F. NARUMI, T. MATSUKAWA, Y. OKAWA, S. SOMEKAWA, D. MATSUMOTO, K. TAKAHASHI, T. YOSHIDA, K. OKAMOTO, and S. OHKAWA

Division of Removable Prosthodontics, Department of Restorative and Biomaterials Sciences, Meikai University School of Dentistry

Abstract

This report describes two clinical cases. In both cases, the abutment teeth that act as retention elements for the dentures were detached due to secondary caries and excessive occlusal force. The patients were dissatisfied with the retention of their denture. However the radiographic examination showed that crown-to-root ratio of the abutment teeth must be improved for a successful prognosis of the abutment teeth.

After the initial preparation, a removable overlay denture with coping-type of magnetic attachments was fabricated as a definitive prostheses and keepers of the magnetic attachments were fixed to the remaining radicular teeth. As a result, the abutment teeth were improved crown-to-root ratio and patients' complaints of functional dissatisfaction were resolved.
