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Replacement of Implant-Supported Maxillary Cemented and Mandibular Hybrid Prostheses

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Objectives Implant supported fixed prostheses can be designed by screw-retained, cement-retained and hybrid type. The aim of this study was to present mandibular implant-supported hybrid prosthesis opposed to maxillary implant-supported cement-retained fixed prosthesis.

Methods A sixty two years old male patient was applied to University of Gazi, Faculty of Dentistry, Department of Prosthodontics with the complaint of his existing prosthesis. Clinical and radiographic evaluations were performed. It was observed that the patient has a full arc implant supported cemented prosthesis in the maxilla and an implant supported hybrid prosthesis in the mandible. In clinical evaluation of the existing prosthesis porcelain chipping and functional loss were observed. Radiographic examination revealed eight implants in maxilla and five implants in mandible. According to clinical and radiographical evaluations and patient's expectations replacement of the prostheses was planned. Open-tray maxillary and mandibular impressions were made with polyvinyl siloxan. Infrastructures and veneers were fabricated and their adaptation were tried in patient's mouth. Occlusion and aesthetics of the prosthesis were checked and adjustments were performed. Then final prostheses were fixed in patient's mouth. The patient was called for a follow-up appointment after a year.

Results At 1 year follow-up was clinical and radiographic evaluations were performed. No functional, phonetic, or esthetic problems were noted except porcelain chipping at left mandibular canine crown restoration. There were no bone loss around the implants.

Conclusions Present case report allowed to follow up the use of implant-supported hybrid and cement-retained prostheses together. Implant-supported hybrid and cement retained prostheses satisfied patient's requirements for esthetics, phonetics, oral hygiene, and oral comfort.