

Prosthetic Management of a Partially Edentulous Patient with Microstomia

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It is unable to insert the prosthesis in the mouth of a patient with microstomia because of the constricted opening of the oral cavity. This clinical report describes the designing of sectional impression trays for prosthetic management of a partially edentulous patient. The patient was a 81-year-old male with microstomia induced by a post operative scar. His complaint was masticatory dysfunction due to unadaptation of his partial denture caused by abutment tooth extraction. The diameter and circumference length of his mouth opening were approximately 40mm and 140mm, respectively. Sectional trays were fabricated for final impression. Resin cones and U-shaped grooves were formed on the initial tray so that the trays could be perfectly reassembled. First, the initial tray was inserted in the oral cavity, and the second tray was placed on the initial tray. The impressions were removed from the patient's mouth separately and were exactly reassembled. This designing of sectional trays was effective in making an accurate impression for the patient with microstomia. Upper and lower partial dentures were carefully inserted and twisted into the place.

Key words : microstomia, sectional tray, designing of assembly, prosthetic management