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Management of Anterior Deep Bite with Implant Supported Prosthesis: A Case Report

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Abstract

A deep overbite is condition where the vertical overlap of the upper and lower incisors exceeds half of the lower incisal tooth height. Severe vertical overlap may predispose the patient to lack of inter-occlusal space, tooth wear, abnormal function, improper mastication, excessive stress, and functional problems such as bruxing, clenching, and craniomandibular disorders all of which can present significant challenges for the restorative dentist. While management options very much depend on the nature of the situation and patient's symptoms, options may range from provision of a simple removable appliance or splint and non-surgical periodontal therapy, to multidisciplinary care involving orthodontics, orthognathic surgery and restorative dentistry. Restorative management may involve an increase in the occlusal vertical dimension with fixed restorations or removable prostheses, and careful assessment and treatment planning is essential. This report describes a patient with early bilateral loss of posterior teeth in both maxillary and mandibular arches resulting in a restricted restorative space and a deep bite anteriorly. The various treatment options for partially edentulous patients were fixed partial dentures, removable prosthesis and implant supported fixed prosthesis. The successful rehabilitation of a patient with severe vertical overlap is described in this case report which was accomplished by placement of 8 implants followed by implant supported prosthesis.

Keywords:

Increased vertical dimension, deep bite, limited inter-arch space, full mouth rehabilitation, fixed partial denture.

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