

British Society for Restorative Dentistry

Poster Presentation – Clinical Case

**Abstract**

**Title** – Clinical case – Oral rehabilitation following maxillofacial trauma

A 28-year-old male patient presented with aesthetic and functional concerns regarding his teeth. One year previously the patient suffered significant trauma resulting in extensive orthopaedic and maxillofacial injuries. Dentoalveolar injuries included acquired tooth loss, mobility and multiple fractured teeth. As part of the patient's reconstructive surgery he received maxillary and mandibular bone grafts at the Royal Devon and Exeter hospital to facilitate implant placement and was subsequently referred to Peninsula dental school's Derriford dental education facility, for a definitive restorative treatment plan.

The patient received a thorough clinical and radiographic examination and a treatment plan was devised that aimed to restore the patient's function and aesthetics through provision of implant retained prostheses. However, due to a lack of inter-occlusal space apparent on clinical examination, careful treatment planning was required to increase the patient's occlusal vertical dimension in order to create adequate space for the definitive prostheses. The different stages of planning that are necessary prior to restoring a patient's dentition at an increased occlusal vertical dimension (OVD) are illustrated in this case.

The final stage of treatment involved the provision of minimal preparation gold onlays, composite build-ups and interim dentures to a pre-determined, increased occlusal vertical dimension (OVD) prior to referral back to the Royal Devon and Exeter hospital for implant placement and restoration.

The outcome met all the goals set at the outset of treatment and upon discharge the patient was happy with the overall result of improved function and aesthetics. As the clinician I thoroughly enjoyed being part of the patient's journey to recovery and found the experience challenging yet rewarding and a fantastic learning opportunity.