

**Project No** : 3753/2007

**Evolving a surgico-prosthetic rehabilitation protocol for the anchoring of facial prosthesis using titanium implant system in extra oral & intra oral maxillofacial defects**

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**Objectives**

Reconstruction of facial defects can be accomplished either surgically or prosthetically, depending on the site, size, etiology, severity, age and the patient's desires. Implant retention is currently considered the standard of care in many situations because of the advantages it offers over conventional methods. The purpose of this study was to restore the form & function of the maxillofacial region by implant anchored prosthesis and to formulate a Surgico-Prsosthetic rehabilitation protocol for the anchoring of facial prosthesis using titanium implant system in maxillofacial defects.

**Method**

27 patients with mean age of 32.7 years at the time of the surgery with implant-retained & extra oral prostheses were evaluated. The surgical implant placement was planned based on clinical evaluation; occlusion and radiological evaluation. Protocol was made for implant placement & prosthetic rehabilitation. Clinical, Radiological & soft tissue evaluation was made. The patients were evaluated for 12 months post implant placement to study the post operative changes.

**Results**

08 patients had auricular, 07 patients had orbital, and 1 patient had nasal defect. 05 patients had maxillary & 06 patients had mandibular defect. Retention was provided with Barclips in 09, magnets in 07, Anatomic retention in 10 patients. Reasons for fabricating new prostheses were discoloration in 01 orbital, 01 maxilla, and retentive attachment failure in 01 auricular patient.

**Recommendations**

The regions for implants must be assessed preoperatively and CT is essential aid in treatment planning. The protocol will be effective mode of osseo-integartion of the extra oral and intra oral implants.