

COSMETIC & FUNCTIONAL RECONSTRUCTION OF MAXILLARY DEFECT



Dr. Dushyant Mandlik
Consultant - Head & Neck Services and Plastic & Reconstructive Services



Dr. Kaustubh Patel
Consultant - Head & Neck Oncology

Oral cancer is one of the leading cancers in Indian subcontinent. According to recent Public Based Cancer Registry, highest oral cancers are reported in Ahmedabad, making it capital of oral cancer.

Upper jaw cancer surgeries can lead to significant morbidity because of involvement of maxillary bone. The maxillary bone is an important structure for both the cosmesis of the face and the functionality of the orbital and oral cavities. Maxillary defects in addition to affecting the functions of speech, swallowing, and mastication, also cause cosmetic disfigurement.

Temporalis Mayofacial Flap (TMF) is very commonly used and versatile technique for rehabilitation of maxillary defects. Following transposition of the TMF flap, a volume defect results in the temporal region creating, a cosmetic disfigurement that is unacceptable to many patients, which can be corrected in excellent, cost effective manner with intra operative sculpting of PMMA This technique is an original research innovation from our team.

Our study of long term results, with or without post-operative radiation are encouraging, proving efficacy and safety of the method. They are accepted as original article in *Journal of Reconstructive Microsurgery, one of the leading international journal of reconstruction. Advantages of PMMA reconstruction of scalp hollow are:

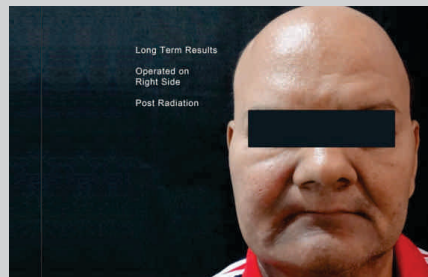
- Quick procedure (approx. 10-15 minutes)
- Cost effective
- Real time sculpting
- Medical Grade material
- Good tolerance to radiation
- Minimum complications



CANCER OF UPPER JAW



RECONSTRUCTION WITH TEMPORALIS



BILATERAL SYMMETRY WITH PMMA RECONSTRUCTION



CT SCAN CONTOUR COMPARISON

* Link of Journal : <http://dx.doi.org/10.1055/s-0035-1558988>