

MANAGEMENT OF COVID-19-ASSOCIATED MUCORMYCOSIS ORBITAL AND INTRAORAL DEFECT THROUGH MAGNETIC ATTACHMENT OF CAST PARTIAL DENTURE AND ORBITAL PROSTHESIS-A CASE REPORT

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Introduction

Loss of eye can occur due to any congenital defect, developmental agenesis, trauma, infection or tumor resulting in significant **physical**, **psychological**, and **emotional** problems. This presentation aims to highlight the prosthetic rehabilitation of an orbital defect with an assembly of intraoral and extra oral prosthesis coupled with using intraoral magnets.

Case Report

A 50-year-old male patient reported with the chief complaint of a missing left eye along with missing multiple teeth following surgical treatment. Medical history revealed **COVID-19-associated mucormycosis**, following which **exenteration** of the left eye along with the **segmental maxillectomy** was done. Patient opted for prosthetic rehabilitation due to the invasiveness of any implant or surgical procedure. This presentation highlights the fabrication of **hollow** orbital conformer to retain the orbital prosthesis with the purpose **to reduce its weight** along with the utilisation of **patient's own natural hair** for weaving eyebrows and eyelashes so that a life-like appearance of the extra oral prosthesis can be achieved.

Treatment



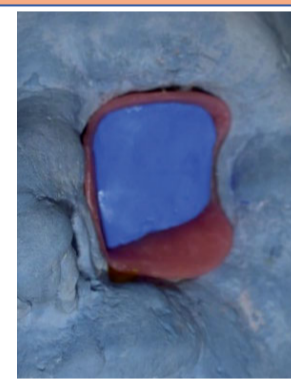
Pre-rehabilitative view



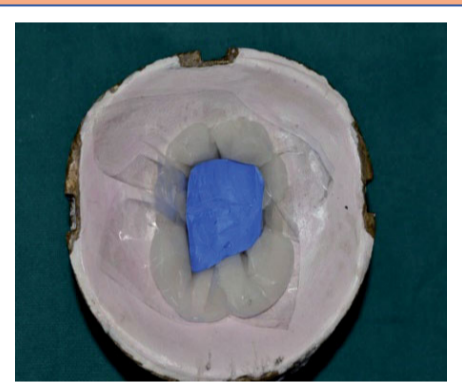
Segmental Maxillectomy



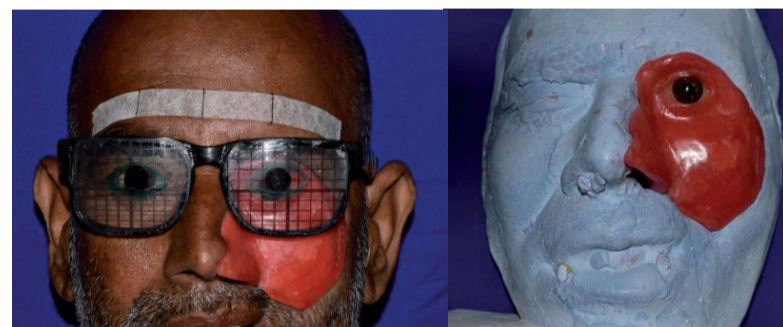
Facial Moulage and master model



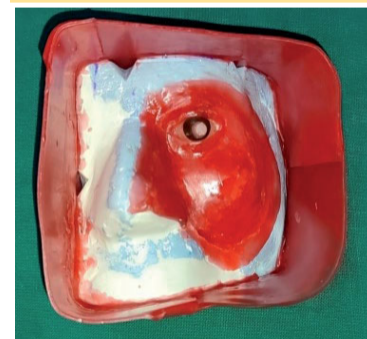
Temporary conformer with putty index



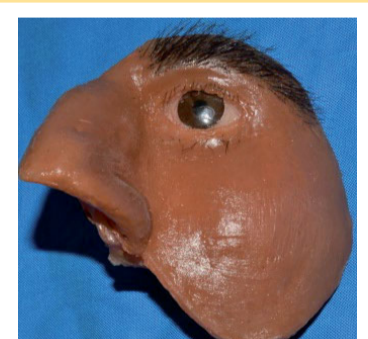
Lost salt technique for hollow conformer



Positioning of iris using printed millimetre grid



Investment of wax up



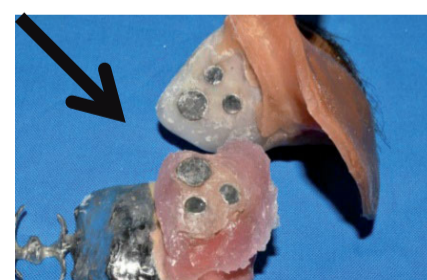
Final prosthesis



Fabrication of cast partial framework



Final in-situ prosthesis



Magnetic assembly embedded in two part prosthesis



Post-rehabilitative view

Conclusion

Rehabilitation of such patients is a **holistic approach** which not only just fulfills **aesthetics** but also boosts the **confidence** of the patient. Satisfactory functional and aesthetic outcomes were achieved leading to a gain in confidence of the patient to face everyday social dilemmas.

References

- P. G. Patil, "Modified technique to fabricate a hollow light-weight facial prosthesis for lateral midfacial defect: a clinical report," The Journal of Advanced Prosthodontics, vol. 2, no. 3, pp. 65-70, 2010.
- K. D. Rudd, R. M. Morrow, and J. E. Rhoads, Dental Laboratory Procedures: Fixed Partial Dentures, Mosby, 1986.