

Rehabilitation of Post Covid Maxillectomy Defects with Fixed Prosthesis

Dr Akiffudin MDS

Dr Ranjit Kumar Peravali MDS.,FICOI

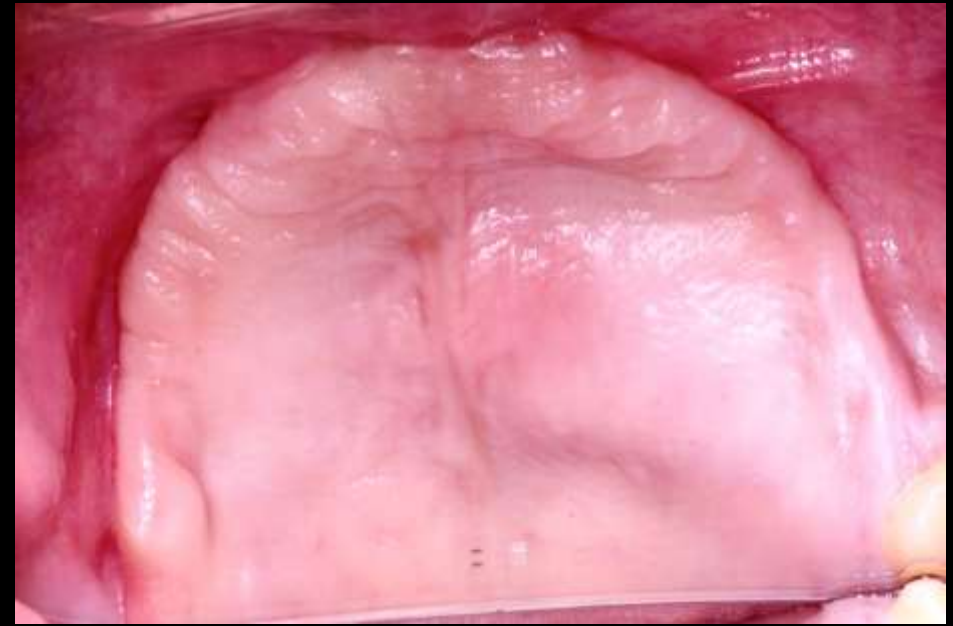
Confydentz Dental Implant &
Maxillofacial Centre, Guntur -522007

Case - 1



*35 Old pt. underwent Total
Maxillectomy in May 2021 for post
covid Mucormycosis*



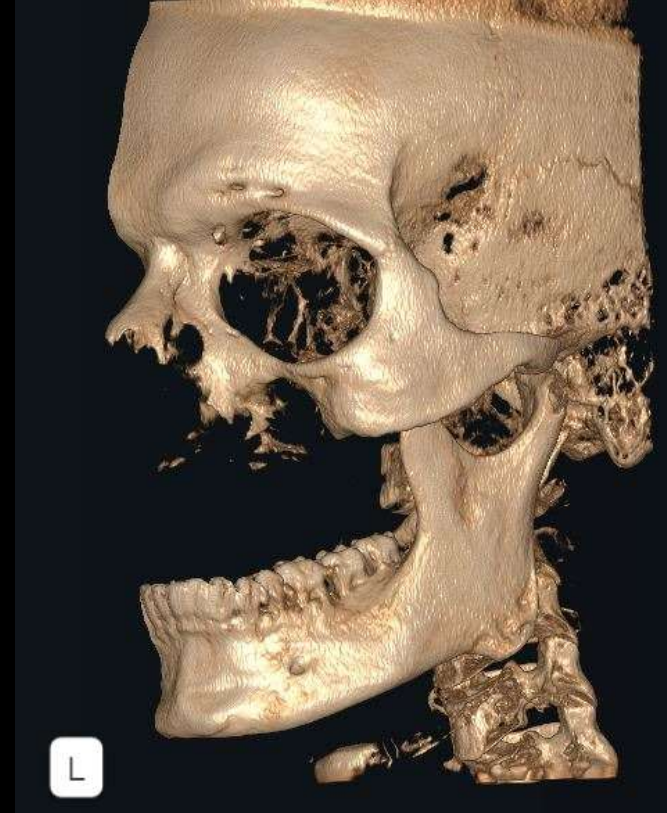
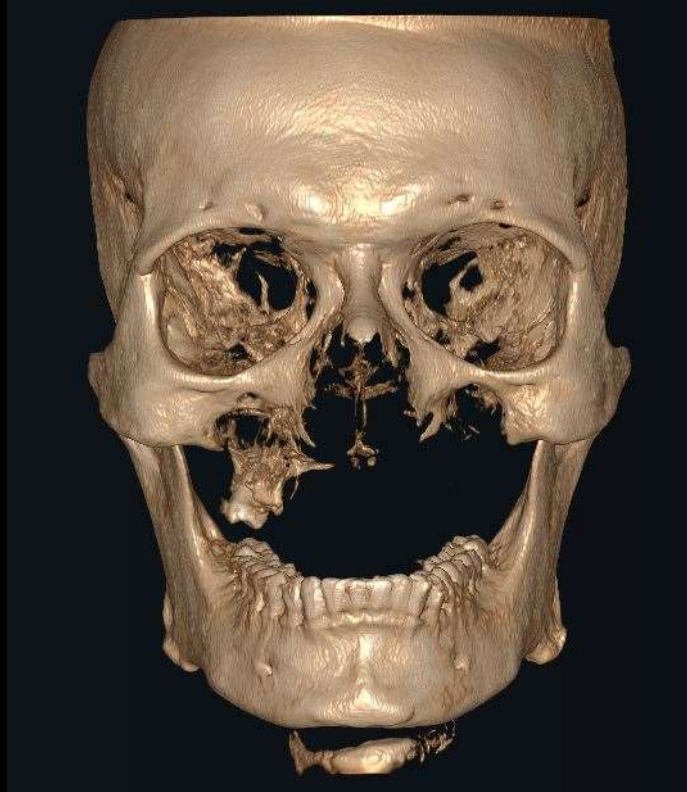


OBJECTIVES OF REHABILITATION

- *Restore Function – Chewing , Speech*
- *Restore Aesthetics*
- *Restore Lip Competence*
- *Social Acceptability*
- *Better Quality of Life*
- *Long term sustainability*

SURGICAL & PROSTHETIC CHALLENGES

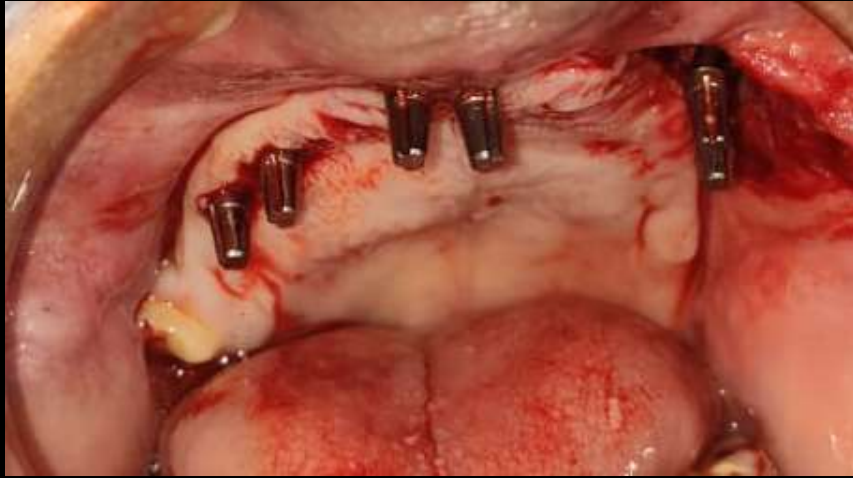
- *Inadequate bone for conventional rehab (No alveolar bone, no maxillary bone including Unilateral pterygoid plates)*
- *Loss of lip support due to Maxillectomy*
- *Primarily closed defect (adherence of nasal and sinus mucosa to palatal mucosa)*
- *Retracted palatal tissue caused by fibrosis due to primary surgery*
- *Lack of vertical guidance*
- *Over closure of Jaws in rest .*
- *Reducing stress on load bearing area*



3D CT 6 Months Post Maxillectomy

- No residual disease
- No necrotic bone
- Good bone at body of zygoma





SURGICAL PROCEDURE – Day 1

- Double Pterygoid Implants – Right Side
- Quad Zygoma
- Nasal Implants





Day 2- Prosthetic Phase (Metal Framework trial)

- Fabrication of Rigid metal Framework with Active Fit

Prosthesis – Day 3

Hybrid Prosthesis





Restored Fixed Dentition







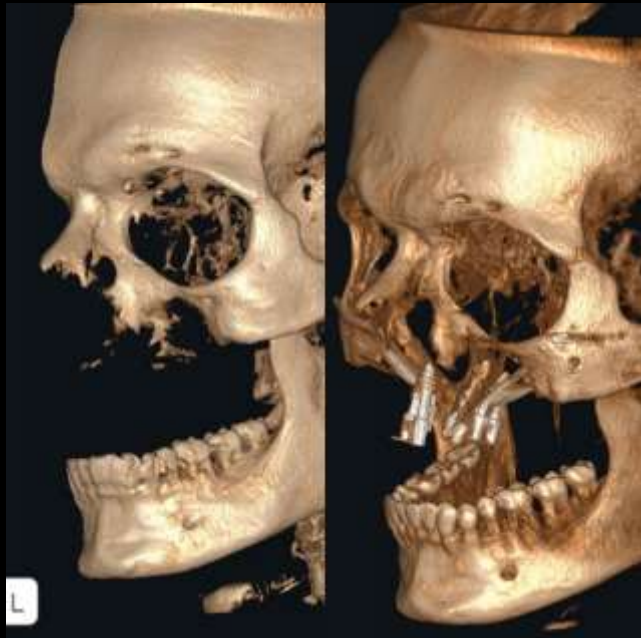
Restored Lip Competence



Restored Lip Competence



Pre & Post Op Scans



Case - 2



*38 Old pt. underwent Hemi-Maxillectomy
in Oct 2020 for Post Covid Mucormycosis*



Loss of Cheek Fullnes

Loss of Dentition

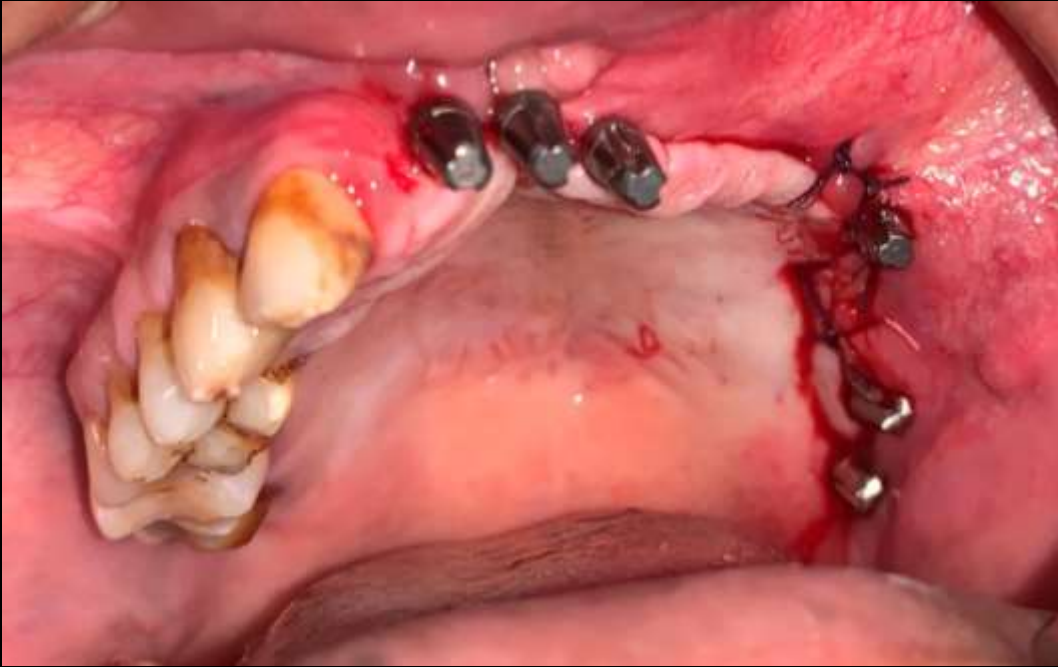




3D CT 1 year Post Maxillectomy

- No residual disease
- No necrotic bone
- Good bone at body of zygoma Nasal Floor & Pterygoids

Surgical phase- Day 1



- Double Pterygoid Implants
- Single Zygoma Implant
- Implants engaging Nasal & Palatal bone

Day 3 - Hybrid Prosthesis





Fixed Prosthesis











Restored Cheek Fullness



Restored Fixed Dentition



- Post Covid Black Fungus has caused enormous Physical, Psychological & Financial burden on many patients in our country.

Our aim of Rehabilitation in these patients is to *give a better quality of life by restoring their esthetic & Function with a better social Acceptability at an affordable cost*

Thank you