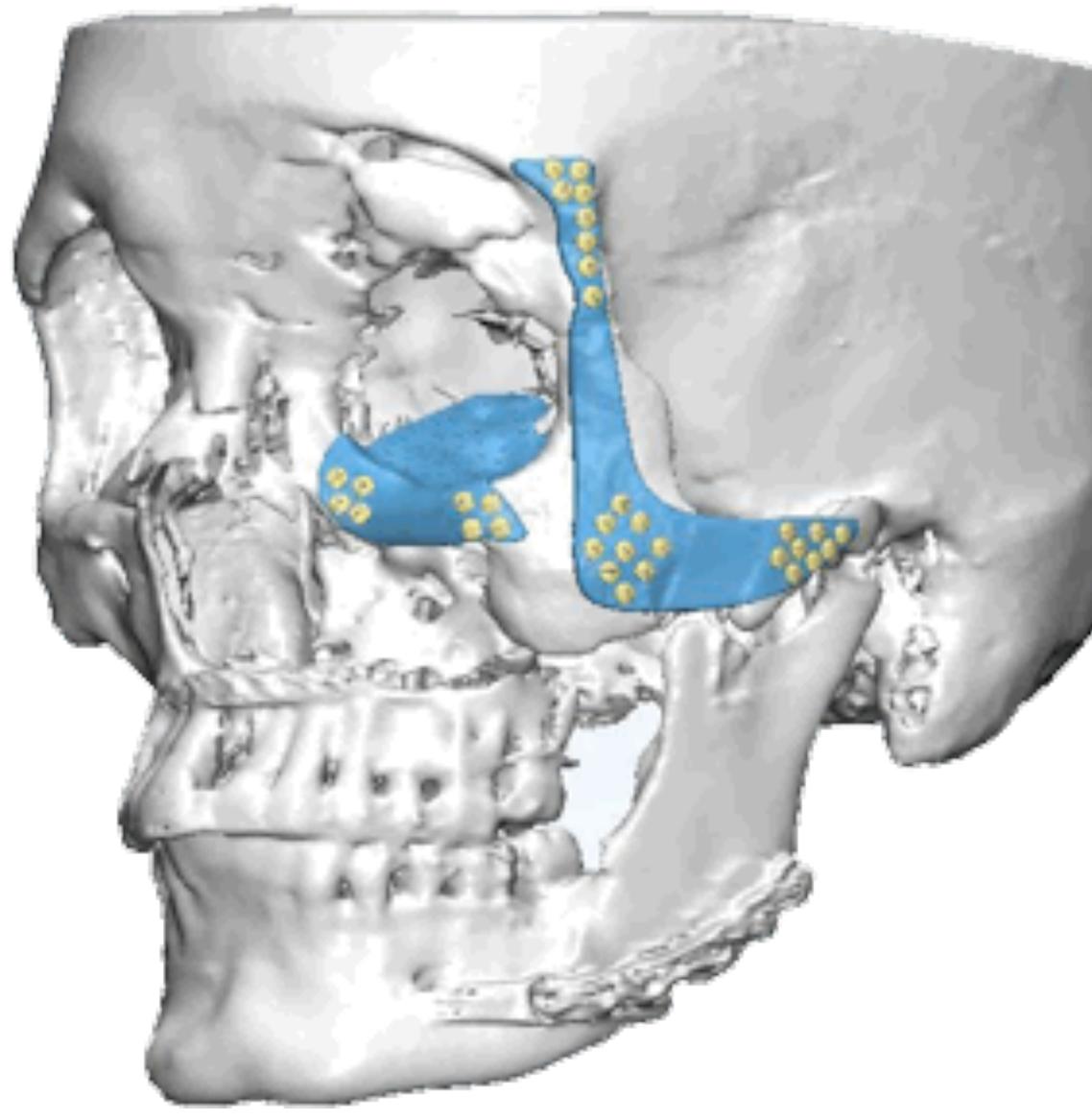
PSI PATIENT SPECIFIC IMPLANTS

- Better anatomic fit
- Reduced operation time
- Satisfying aesthetic needs
- Reduced complexity of surgery



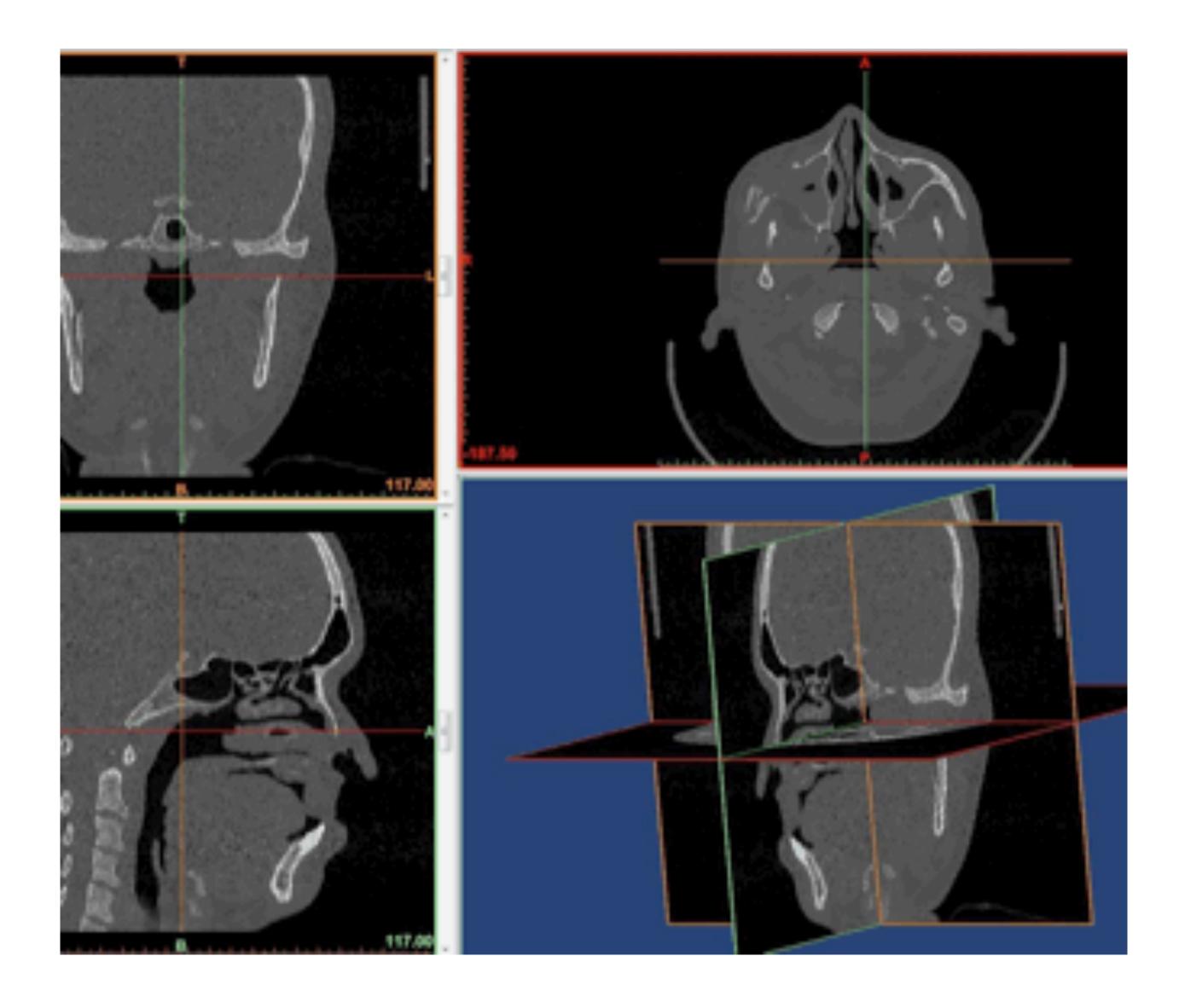




METHODOLOGY

Auxein Patient Specific Implants are derived from 1mm slice DICOM CT data, which is obtained from the hospital radiology department.



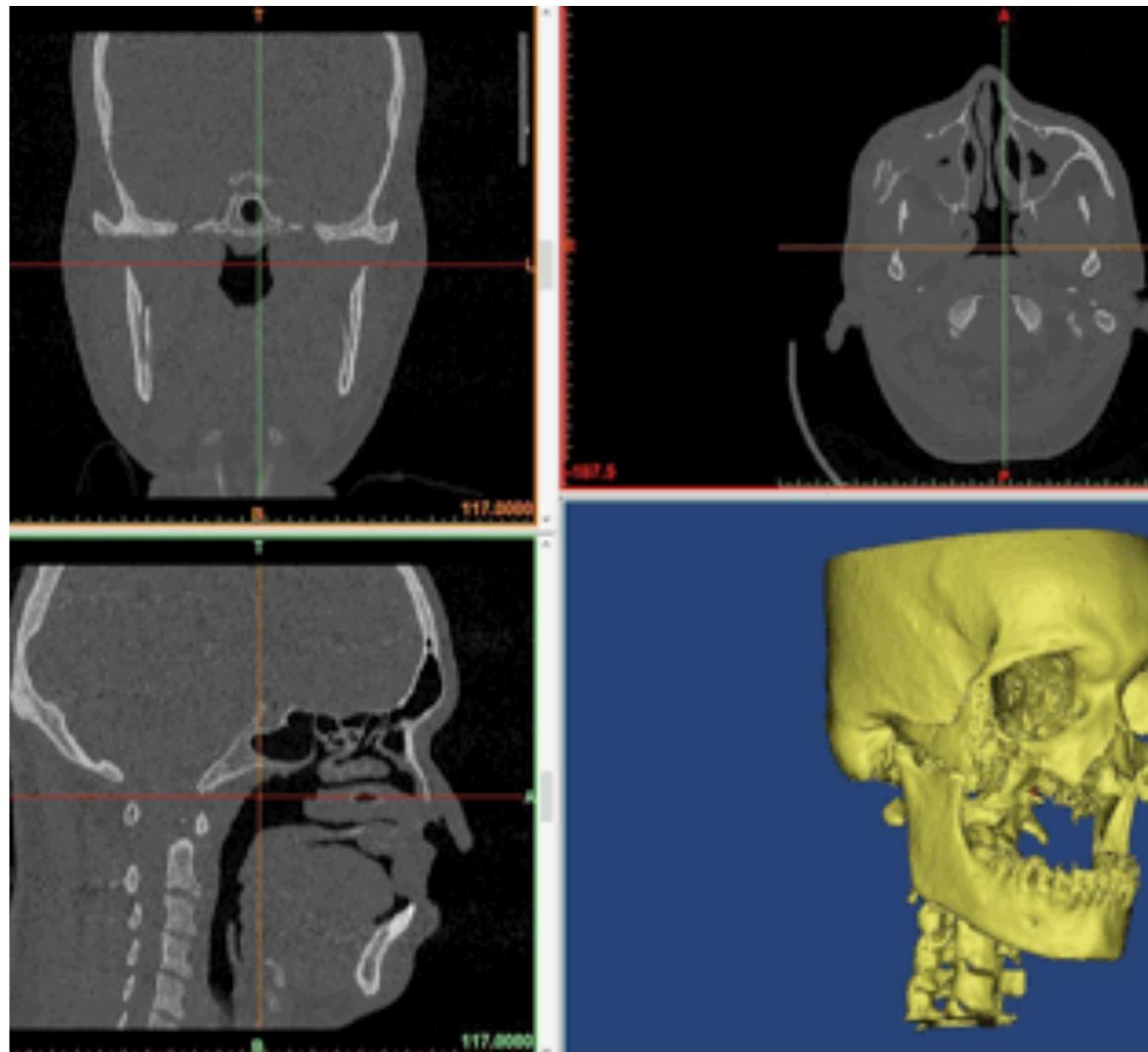


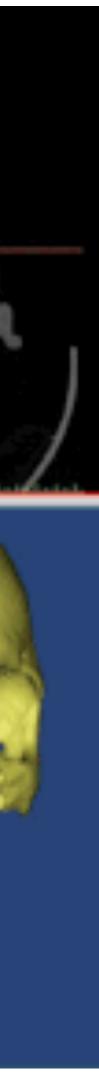


SEGMENTATION

Medical imaging software is used to visualize the CT data and create an anatomically correct skull model and implant design.





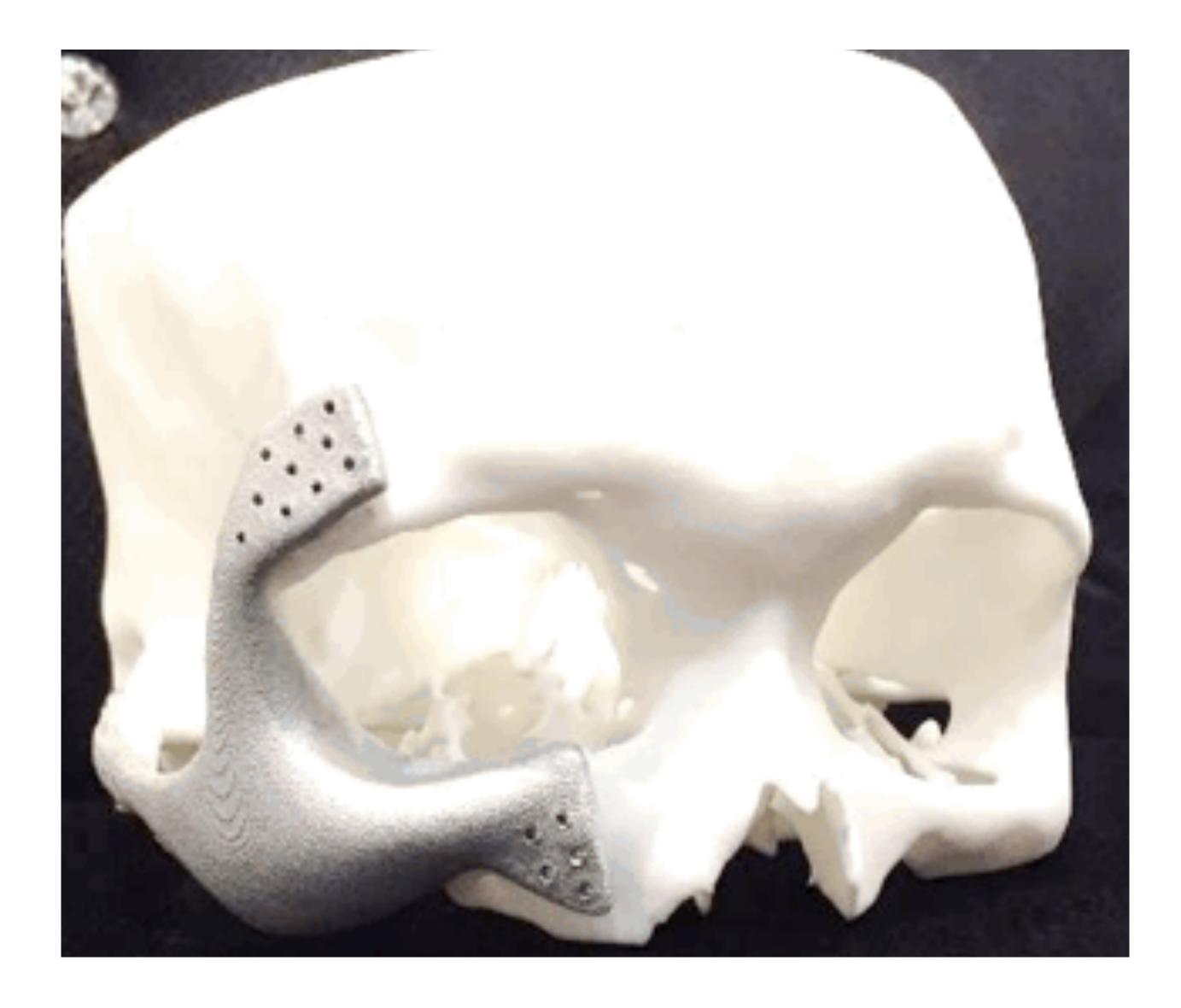




PROTOTYPING

Prototyping using FDM process with plastic material can be done to reduce the surgery time.

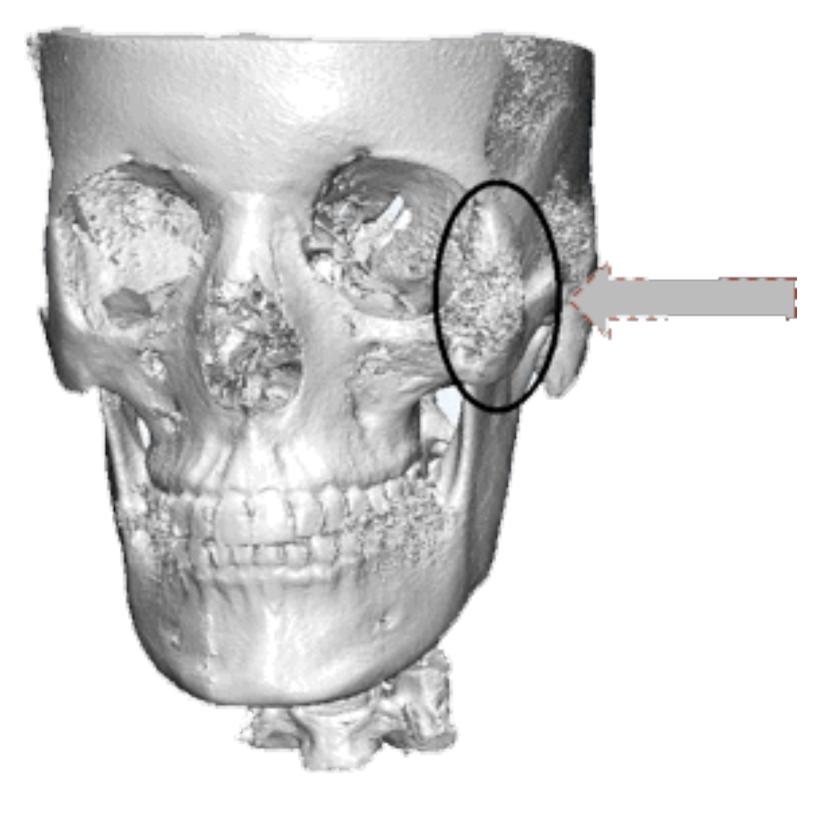






CASE STUDY

Patient is suffering from the cancer in zygomatic area. The major challenge was to develop a customized implant for the patient.

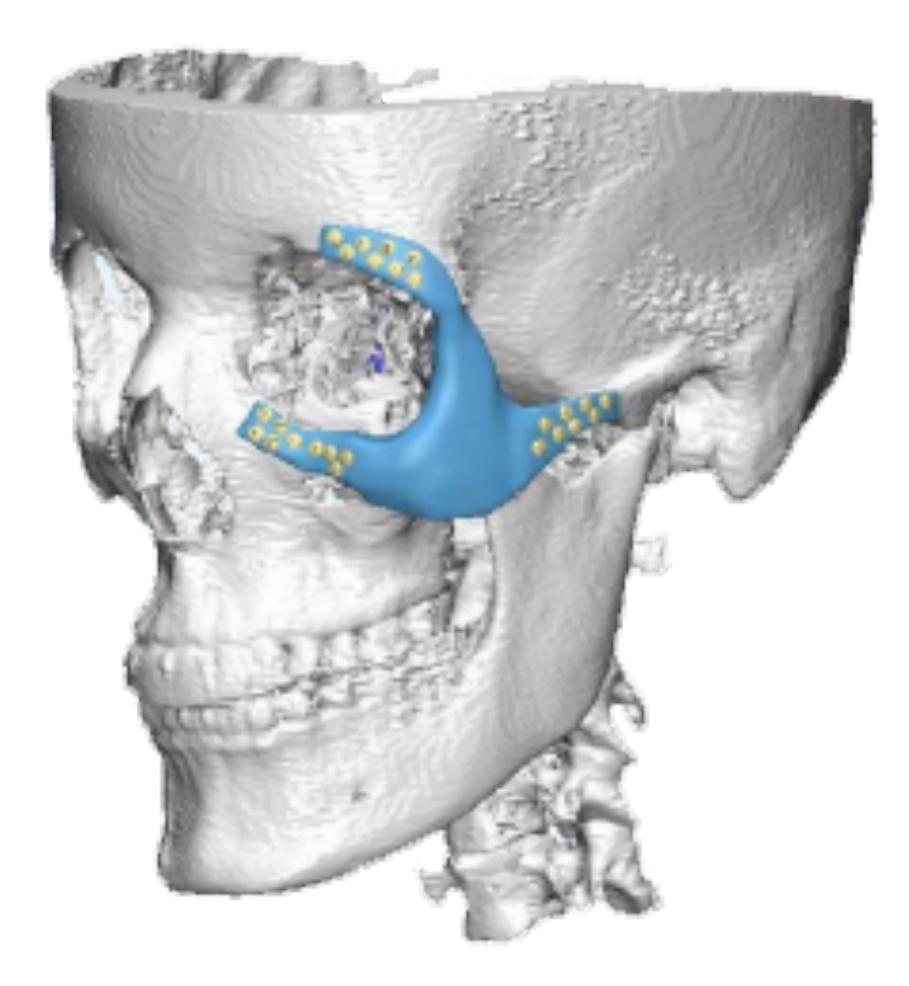




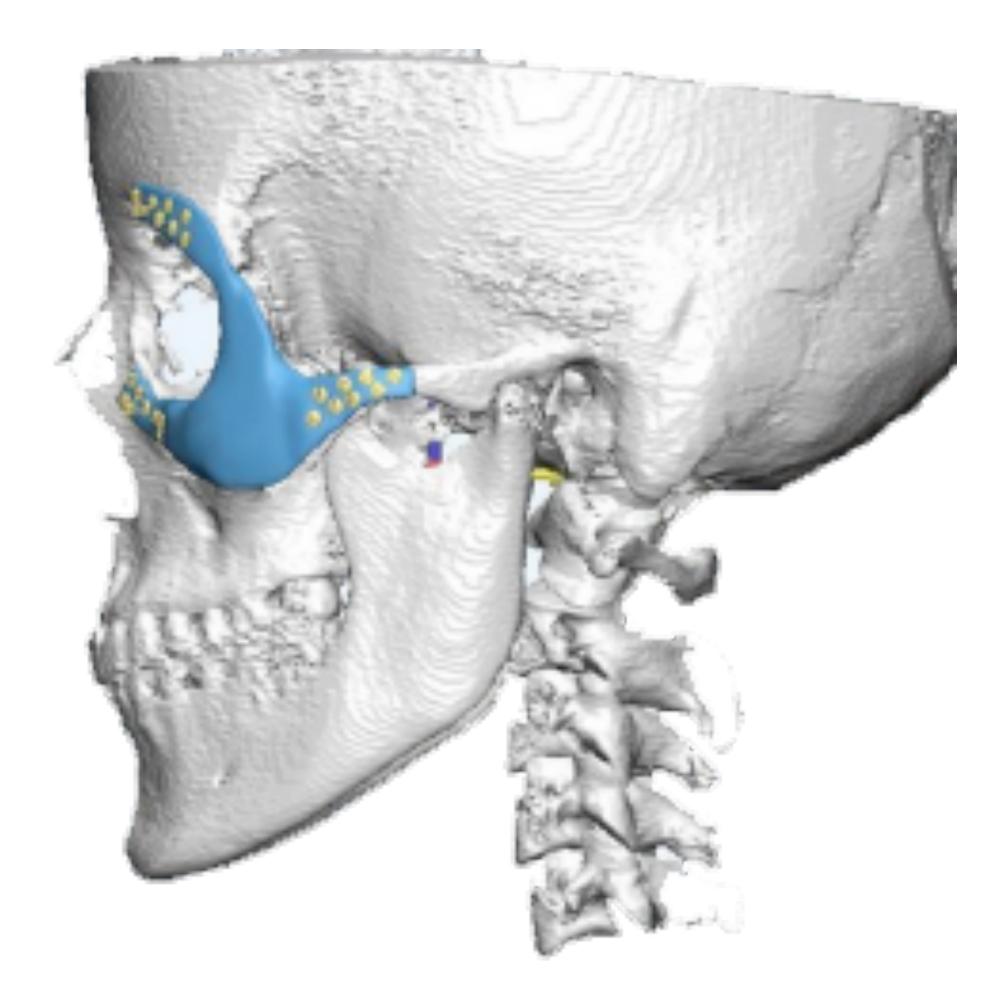
CANCER INFECTED AREA



IMPLANT DESIGNED









IMPLANT MANUFACTURED



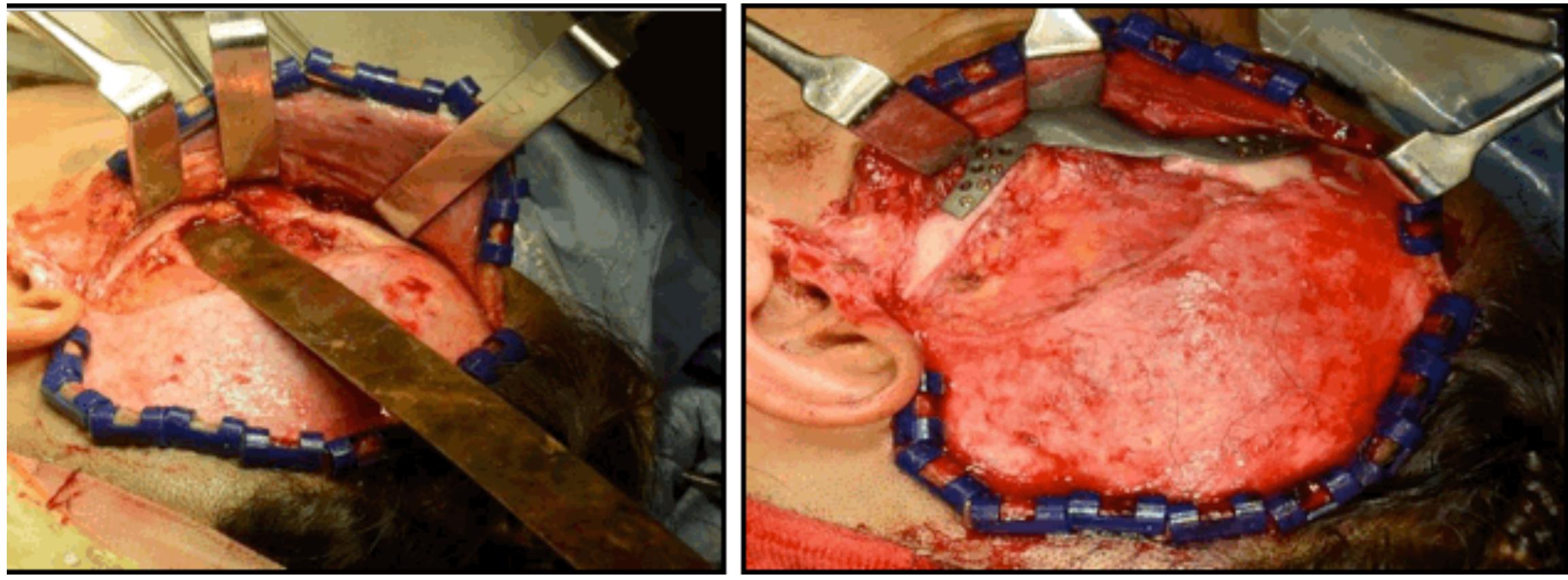






SURGERY

PSI Implanted into the patient



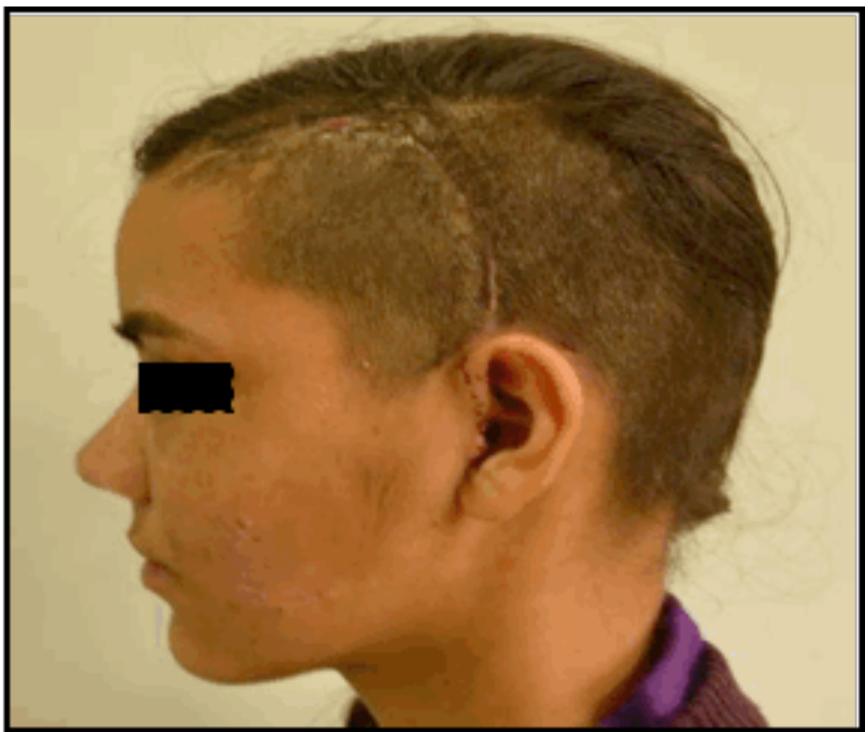






Pre Surgery





PRE AND POST SURGERY RESULTS

www.auxein.com

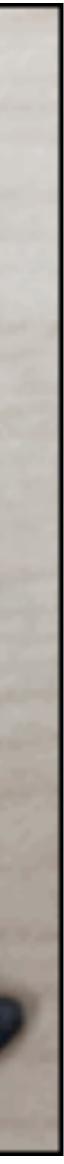
Post Surgery



MATERIAL CHOICE TITANIUM ELI GRADE









MECHANICAL PROPERTIES

Titanium Mechanical Properties



Modulus of Elasticity (stiffness) (GPa)

> **Yield Strength** (MPa)

Notes regarding the use of Titanium Patient Specific Implants: Titanium patient specific implants cannot be modified. If there are any minor fit modifications required, the surgeon must modify the patient's bone.

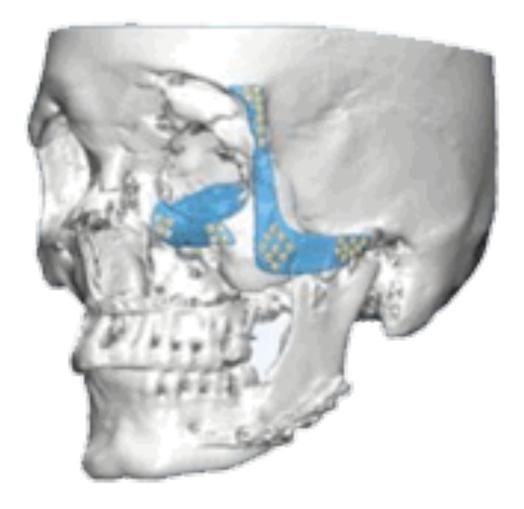


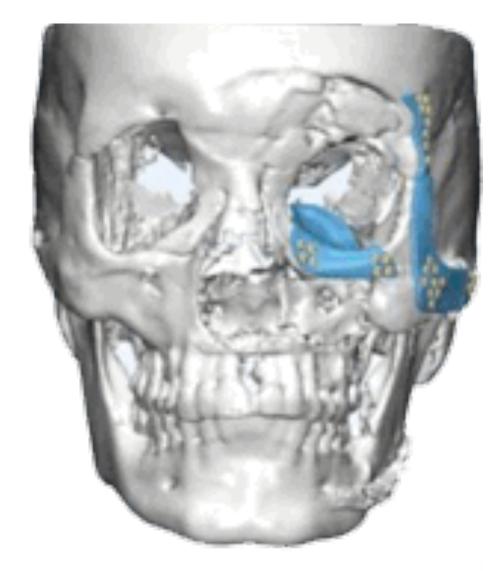


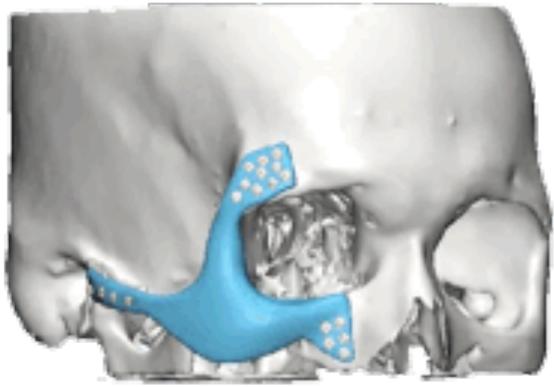
rtical Bone	Titanium
8-24	103
115	230 (minimum)



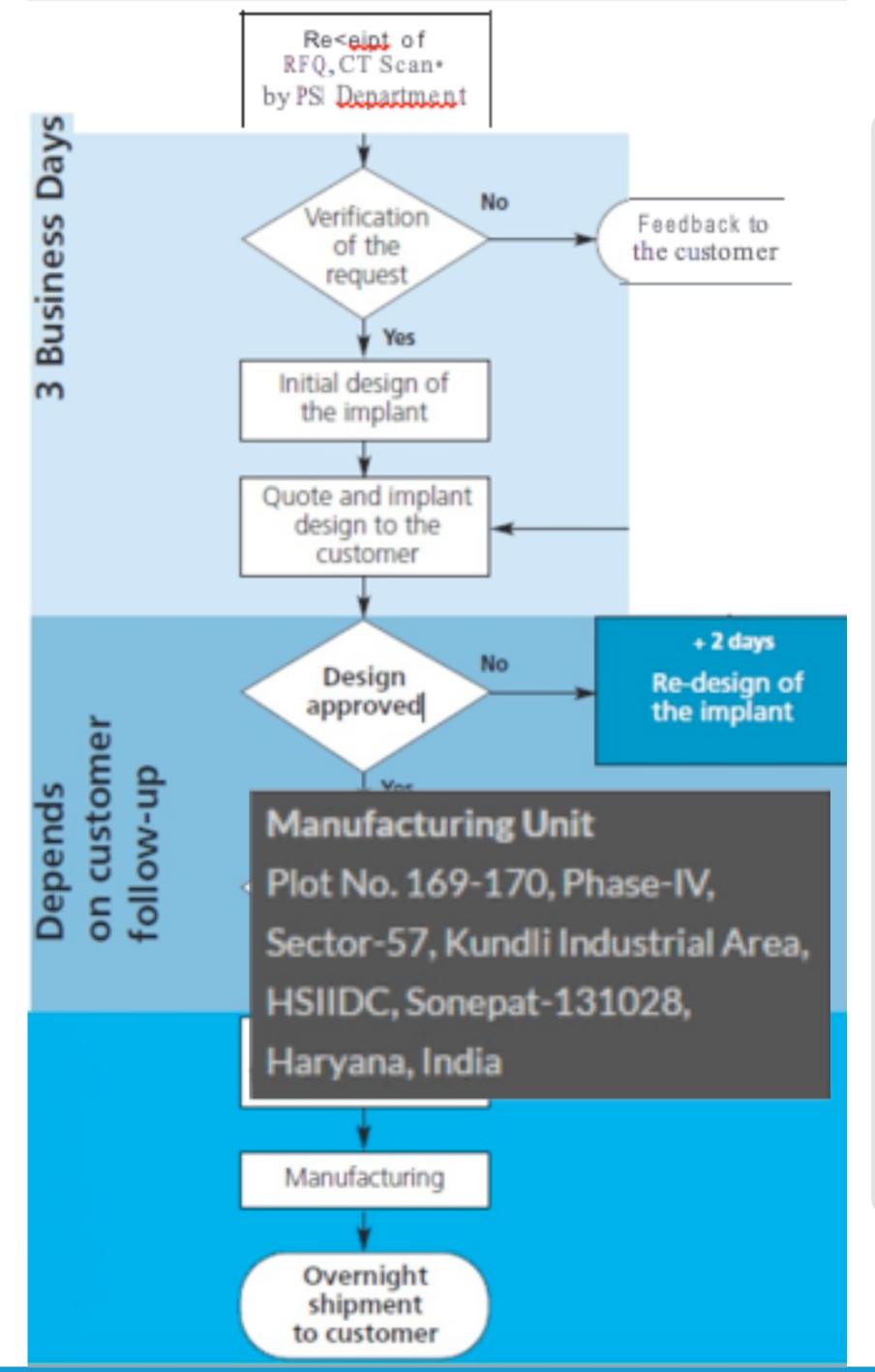
ORDERING PROCESS











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