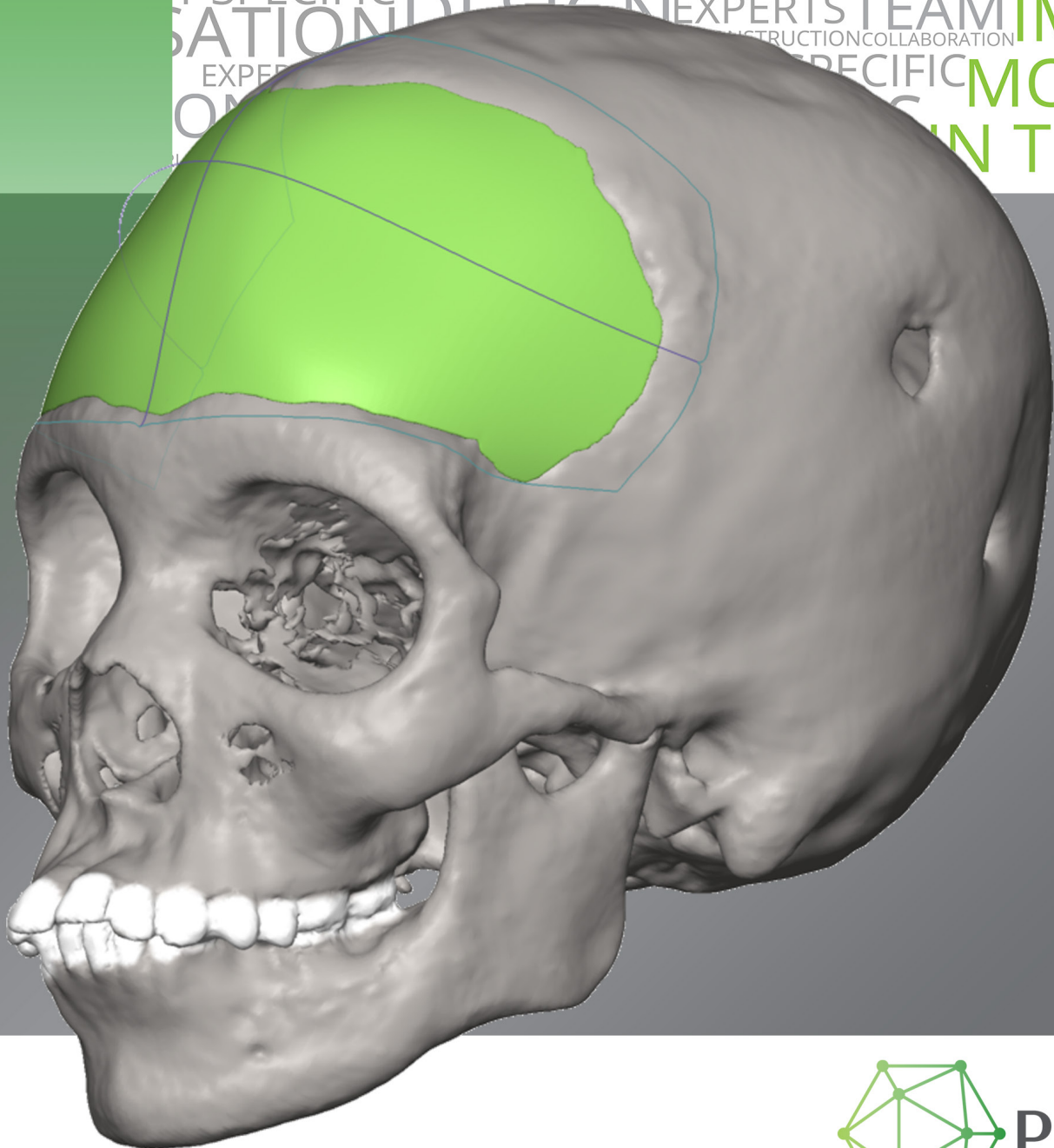
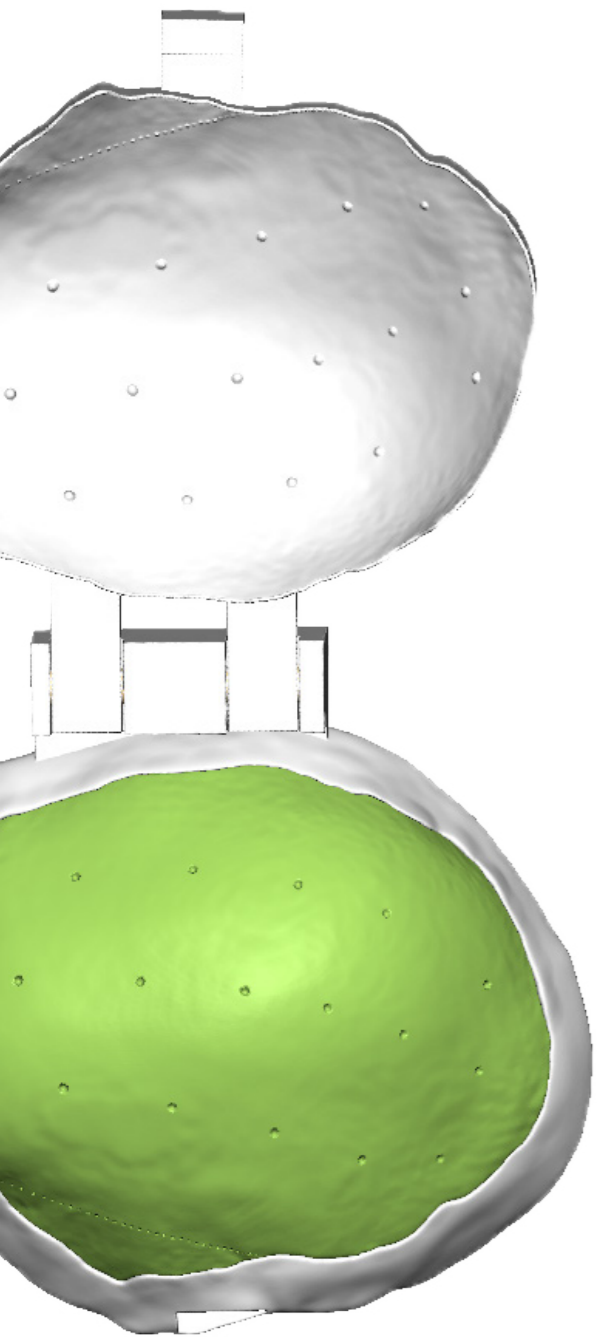


Virtual Surgical Planning for Precise Moulded Cranioplasty Implant





Patient-matched cranial implants are revolutionary in the repair of skull defects, providing benefits in safety, cosmesis and operating time.

Internationally 3D printed implants, optimized for neurosurgical use in South Africa, present multiple obstacles, most significantly being high cost and long lead times, making it difficult for certain markets.

Our locally produced Precise Moulded Cranial Implant (PMCI) is designed to fill this gap.

Our Virtual Surgical Planners design an implant that is patient matched using the patients' CT scan data.

We 3D print an autoclavable mould that is used to "produce" the patient moulded implant during surgery using dedicated cranioplasty cement.

Let the Precise team invest **OUR** time into **YOUR** planning.

INDICATIONS

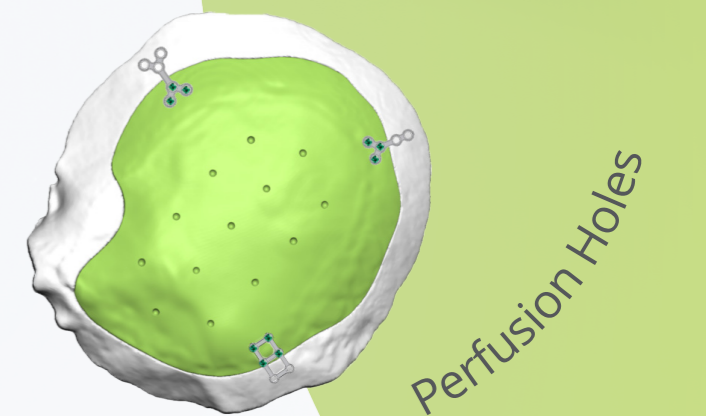
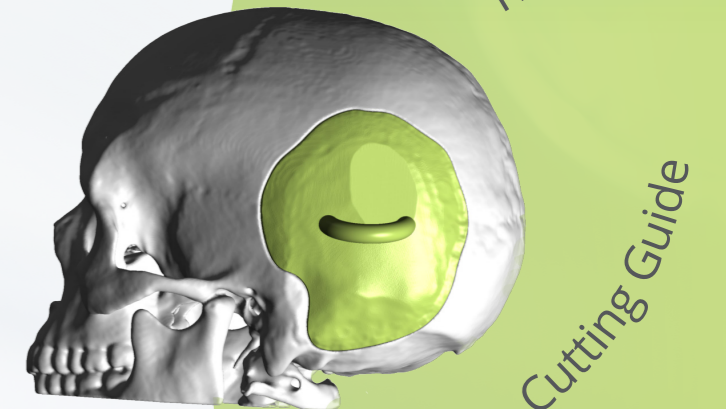
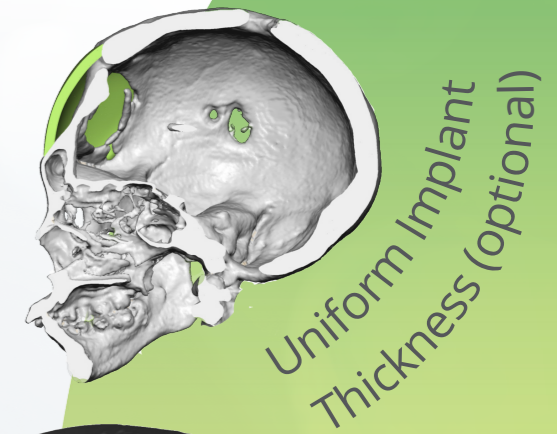
- Reconstruction of skull defects
- Reconstruction of Orbital floors
- Single stage tumour removal (reconstruction of resultant skull defect)
- Onlay graft for contouring defects (skull and midface)

BENEFITS

- Patient matched implant design
- Cutting guides allow for single stage surgery
- Use of PMCI Mould avoids the exothermic reaction occurring in situ
- Approved for craniofacial use
- Radiolucent for better post-operative imaging
- Implant to either match the patients anatomy or uniform thickness
- Optional cut-out to avoid the temporalis muscle
- Perfusion holes may be drilled in theatre as required

PRODUCTS

- CE marked cranioplasty cement
- Autoclavable implant mould
- Optional cutting guide
- Optional skull model

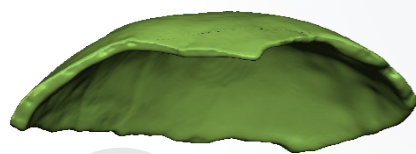


TIMELINE

8 DAYS

DAY

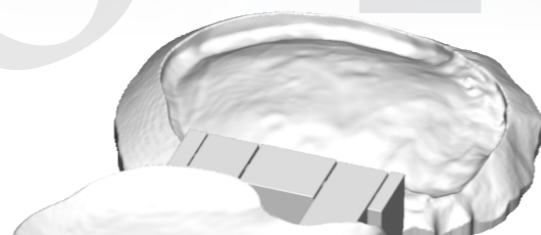
CT scan received



Data import & implant design

Surgeon approval*

Mould design



DAY



3D printing (2 Days)



Autoclavable mould delivered

Implant produced during surgery

* Timeline may be extended due to design changes



For more information on this or other services we offer please
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