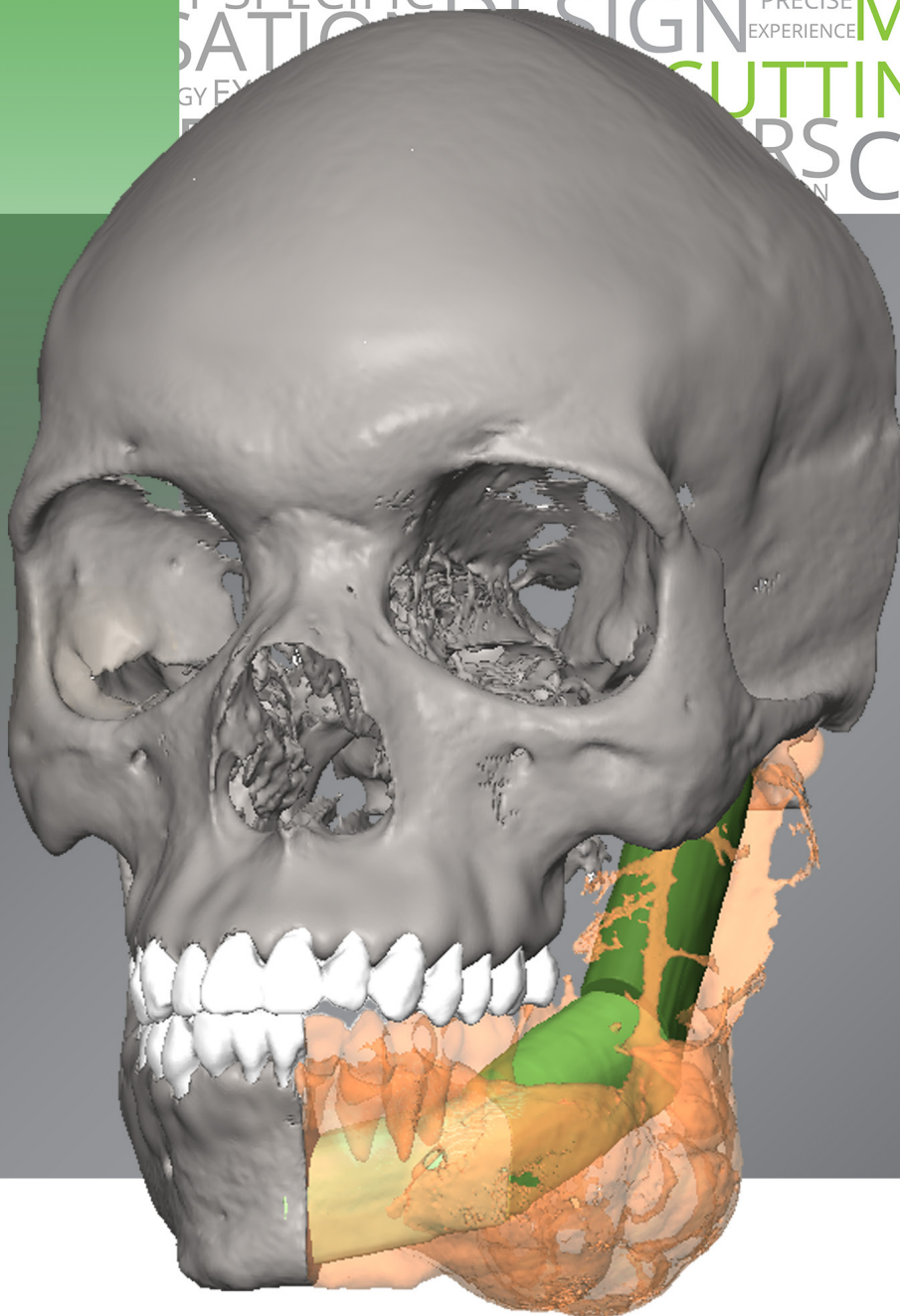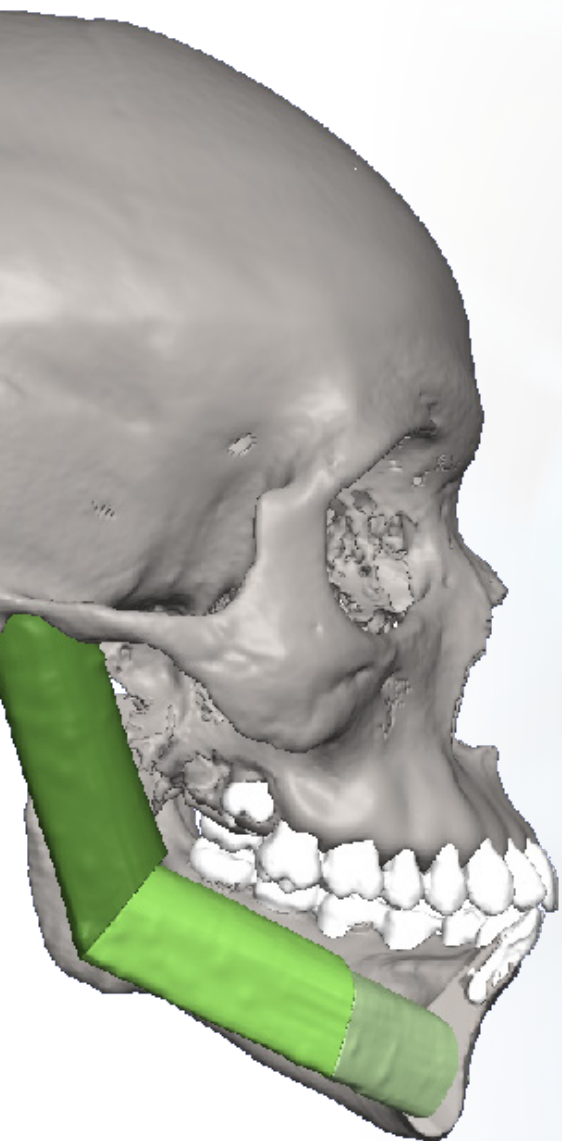# Virtual Surgical Planning for
Fibula Free Flap Reconstruction

INNOVATION 3D PRINTED MODELS
DIGITAL PLANNING
3D PRINTING SOLUTION EXPERIENCE
DESIGN FIBULA
PRINTING PATIENT SPECIFIC RECONSTRUCTION INNOVATION TEAM PLANNING
PRE-BENT PLATE EXPERTS CUTTING
PID PROTOTYPE CUSTOMISATION RESEARCH GUIDE BO
SOLUTION RECONSTR
T SPECIFIC DESIGN PRECISE MANDIBLE COLLA
SATION EXPERIENCE
CUTTING GUIDE TEAM RA
RS CUSTOMISATI

precise
BONESMART TECHNOLOGY

INDICATIONS

- Fibula Free Flap for mandible and maxilla reconstruction
- Revision surgery
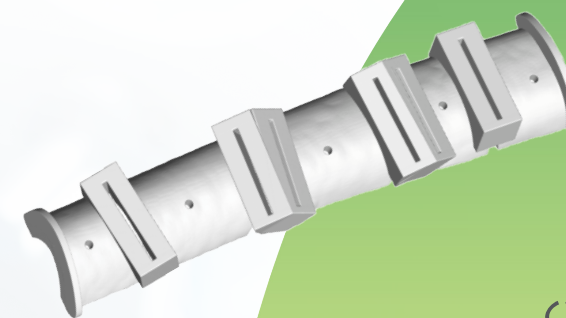- Options for Scapula, Iliac crest and Radial arm grafts

BENEFITS

- Patient matched cutting guides
- Autoclavable polyamide cutting guides
- Segment length mapping
- Cutting guides allow for single stage surgery
- Dental implant planning for optimal prosthetic outcome
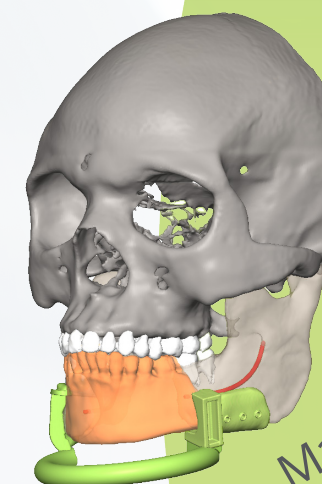- 3D visualisation of osteotomies and final reconstruction

PRODUCTS

- Pre-bent reconstruction plate or *custom 3D printed Titanium plate
- 3D printed mandible model with final fibula placement
- Mandible cutting guide
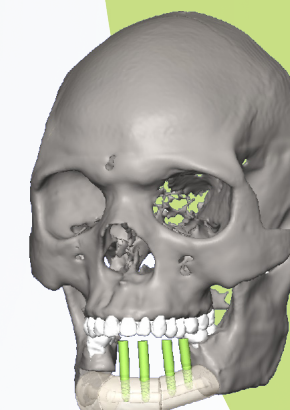- Fibula cutting guide

QUALITY ASSURANCE

- *Produced by a SAHPRA Licensed Manufacturer
- *Design, Development and Manufacturing is ISO13485 certified

Precise Virtual Surgical Planning (VSP) for Fibula Free Flap Reconstruction brings multiple disciplines together ensuring a streamlined and accurate surgical plan.

A full range of surgical guides guarantees a precise fit and accurate positioning of the fibula graft and Pre-Bent Fixation Plate. This allows for accurate soft tissue positioning, anastomosis location and future dental rehabilitation.

The fibula graft is safely housed using your choice of a Precise Pre-bent Reconstruction plate or a *custom-designed 3D printed plate.

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

Fibula Cutting Guide

Mandibular Cutting Guide

Dental Implant Position Verification

TIMELINE ———————————————— 7 DAYS

DESIGN

PRINT

DAY

1 2 3 4 5 6 7

CT Scan Received

Data Import

As Scanned Images Sent to Surgeon

Surgeon Treatment Plan Received*

Cutting Guide Design

DAY

3D Design & Surgeon Approval**

3D Printing (2 Days)

Pre-contoured Plate

or

3D Printed Plate***

Surgery

** Timeline may be extended due to design changes

*** for 3D printed plate add an additional 3 week manufacturing time

precise
BONESMART TECHNOLOGY

CRPM
CENTRE FOR RAPID PROTOTYPING
AND MANUFACTURING

For more information on this or other services we offer please contact

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