

*Custom***Bone**

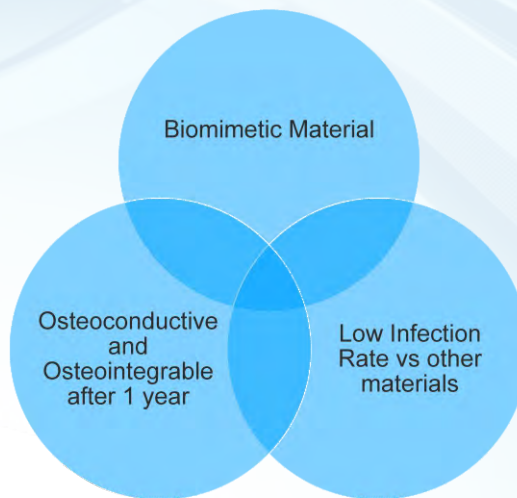
 *Service*

Biomimetic Cranial Reconstruction



FINCERAMICA
regenerative surgery

What Makes Custom Bone Optimal ?



3D CERAMIC HYDROXYAPATITE (100% HA)

Over 9500 implants done worldwide
Usage in more than 35 countries

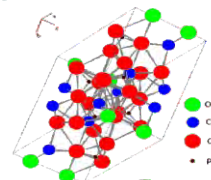
Paediatric Indications (> 2 year Old, One Step Tumour Cases)
Large Clinical data (more than 60 papers published)

CUSTOM BONE IS BIOCOMPATIBLE - BIOMIMETIC

Chemical

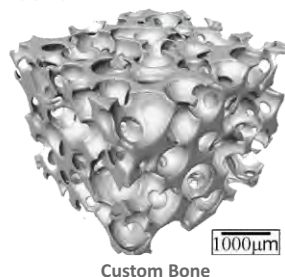
Mimics Natural Bone Composition

	Ca/P
Human Bone	1,71
CustomBone	1,67

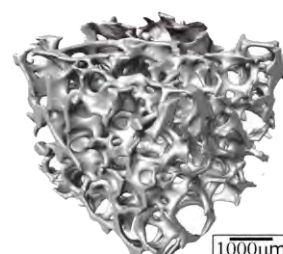


Morphological 3D

Macro, Micro and Interconnected Porosity allow high permeability for the cells and blood coming from the recipient bone



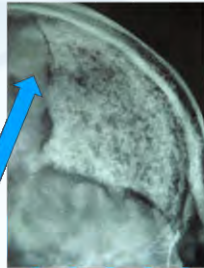
Custom Bone



Human Bone

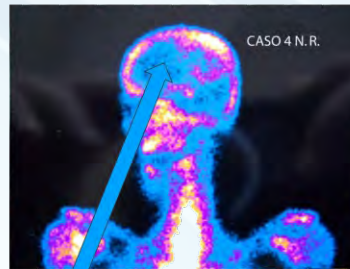
OSTEO INTEGRATION EVIDENCE AFTER 6 MONTHS POST OP

X-Ray



Good Osteointegration

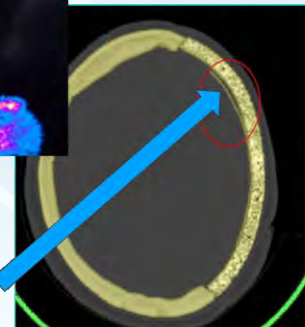
SPECT Analysis



Bone Proliferation

**New Bone Formation by
subdural
vascularisation**

CT Scan



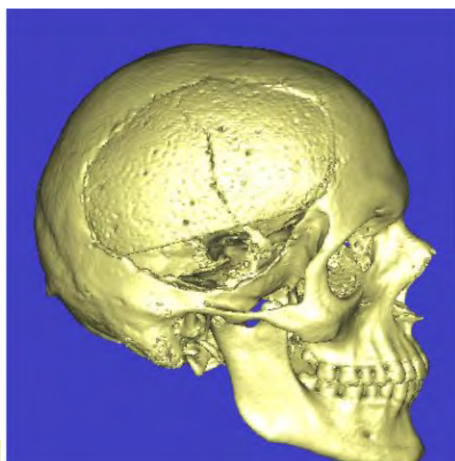
"Osteointegration in Cranial Bone Reconstruction: A goal achieve". S. Spiro, M. Fricia, G. Maddalena, A Nataloni, A Tampieri: Journal of Applied Biomaterials & Functional Materials (2016)

LOWEST INFECTION RATES*

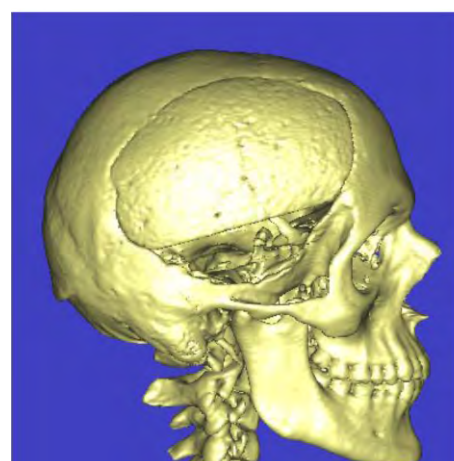
Graft Type	% infection
HA (Custom Bone)	2%
Porous Polyethylene	5.3%
CaP(OssDsign)	6.7%
PEEK	7.7%
Autologous Bone	8.9%
Titanium	12.1%
PMMA	16.3%

*Complications and cosmetic outcomes of materials used in Cranioplasty following decompressive craniotomy- a systematic review, pairwise meta analysis and network meta-analysis

CUSTOM BONE SELF REPAIR EVIDENCE



**12 months post Op a
2nd Trauma Occurred**



**7 Months after
2d Trauma**

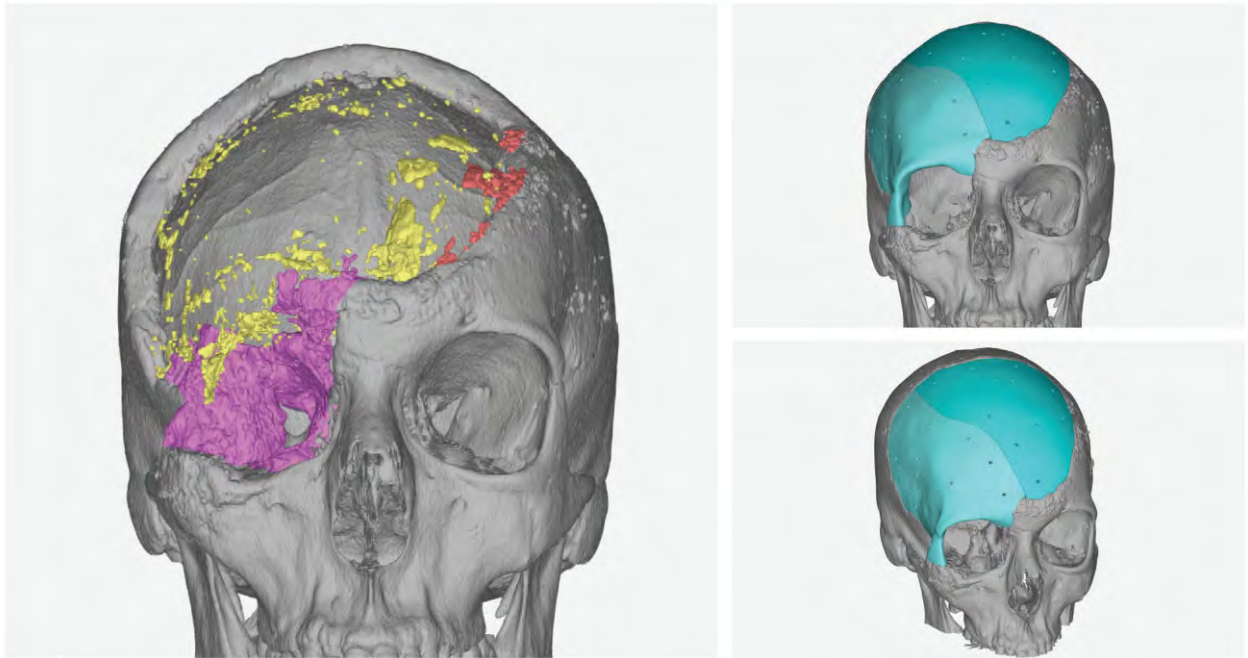


12 months post Op a 2nd Trauma Occurred 7 Months after 2d Trauma" Staffa-Custom made bioceramic Implant in complex and large cranial reconstruction. A 2 year follow up" G. Staffa, A. Barnbanera, A. Faiola, M. Fricia, P. Limoni, R. Mottaran, B. Zanotti, R. Stefini, J. Cranio Maxillo Facial Surgery.

FROM THE CT SCAN TO THE CUSTOMIZED IMPLANT

A High definition CT Scan is required to create case specific Anatomical Model. Slice thickness – less than 2mm/
Gantry Tilt ~ 0°/Scan < 3 months old Direct Discussion with Surgeon.

3D Model Direct Discussion with the Surgeon



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Disclaimer : This information is for Health Care Professional Only. All efforts have been taken to ensure the accuracy of information provided based on clinical data. User discretion is recommended.