

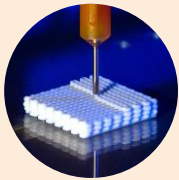
Case study

INNOTERE PSI

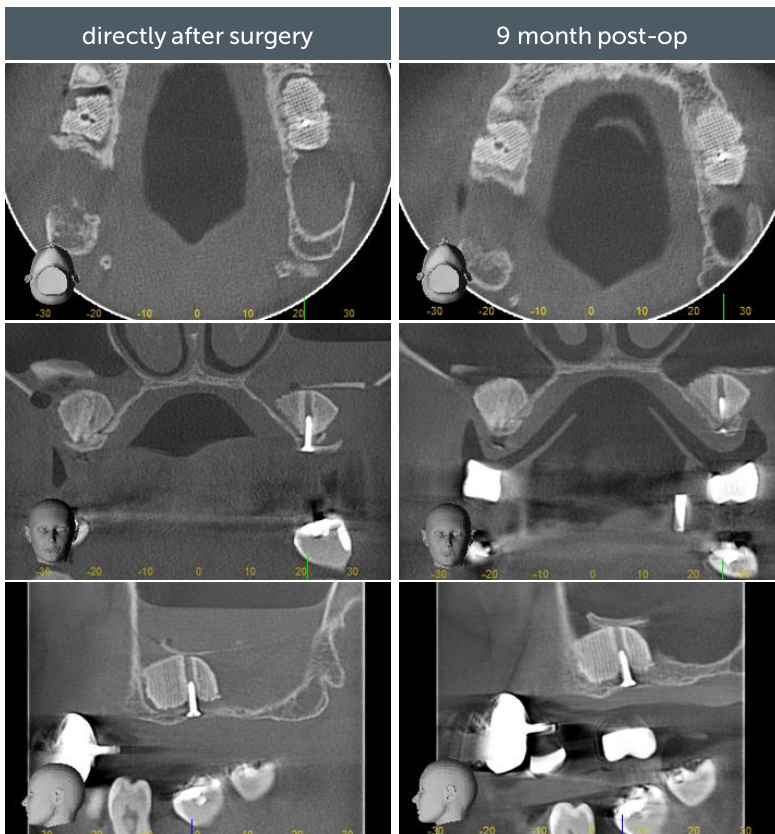
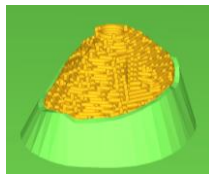
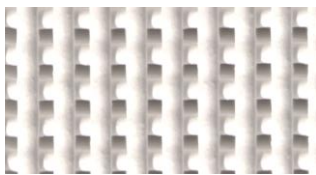
INNOTERE GmbH
 Meissner Str. 191
 01445 Radebeul
 GERMANY

e-mail: contact@innotere.de
 Internet: www.innotere.de

3D printed patient specific implants made of calcium phosphate cement for bone substitution: 9-month follow-up



INNOTERE offers a unique technology for the production of ready-to-use calcium phosphate cement. Based on this material, INNOTERE developed a process for the creation of patient specific scaffolds to the highest degree of precision by means of 3D printing.



- Based on the patient's CT data, irregular shaped specific implants for left and right side sinus lift were designed in close collaboration with the dental surgeons. The implant design was modified with notch for easy handling using tweezers and with cylindrical hole for screw fixation. Our innovative 3D printing technology was used for manufacturing the highly porous calcium phosphate cement scaffolds. The fit of the implants was excellent and surgery successfully completed.
- High specific surface area and the interconnecting regular pore system promote rapid osteointegration
- The purely synthetic calcium phosphate cement mimics the composition of natural bone mineral, and resorbs in the course of natural bone remodeling
- Case study follow-up 9 month after surgery confirms perfect osteointegration

Please contact us for more information: regulatory@innotere.de