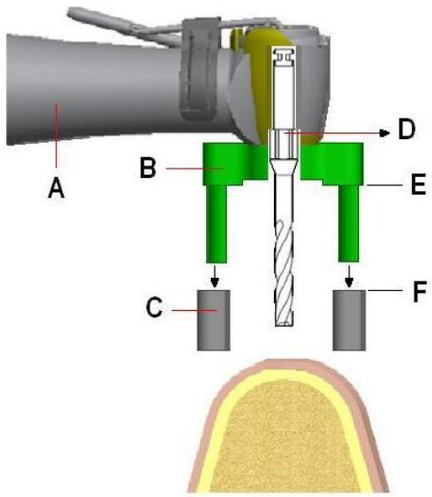
SIGEL DENTAL

IHRE EXPERTEN FÜR ZAHNERSATZ

Sigel Dental GmbH
Schillerstr. 10
77933 Lahr
www.sigeldental.de
www.2ingis.eu

2INGIS Innovation in Dental Implant guiding



2INGIS
CONVENIENCE IN IMPLANTOLOGY

SIGEL DENTAL
IHRE EXPERTEN FÜR ZAHNERSATZ

2INGIS?

2INGIS is a Belgium company *and was created by Philippe De Moyer.*

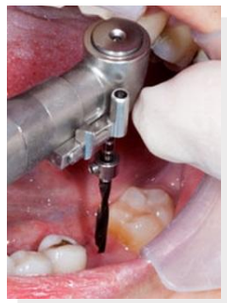
He has more than 38 years experience in the dental field and particularly 13 years in guided Implant surgery

He has created different innovative patents that protect the system and guarant the unique surgical 2INGIS properties.

2INGIS
CONVENIENCE IN IMPLANTOLOGY

Most free hand Dental Implant placement today

2D IMAGERY



FREEHAND DRILLING

OPENING-UP OF GENGIVA

RISKS OF MISPLACEMENT

TIME & COSTS FOR PRACTITIONERS

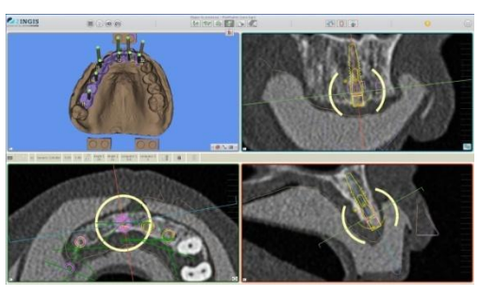
RISKS AND PAIN FOR PATIENTS

2INGIS
CONVENIENCE IN IMPLANTOLOGY

2INGIS guided Dental Implant placement today

3D image with X ray reference

Esthetic and functional se up



3D implant planning

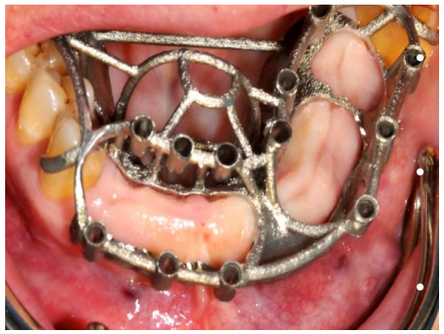
2ingis 3D patented metal printed guide

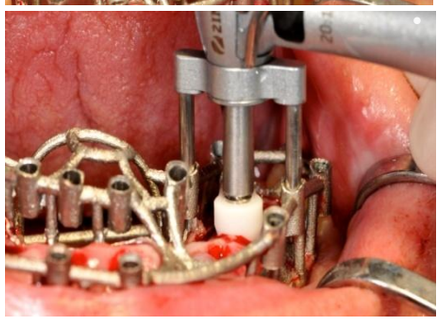
TIME & COSTS saving FOR patient & PRACTITIONERS

No RISKS AND PAIN FOR happy PATIENTS

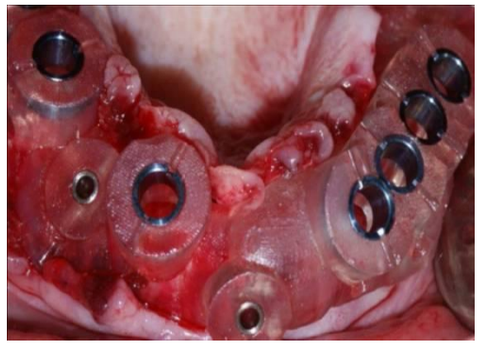
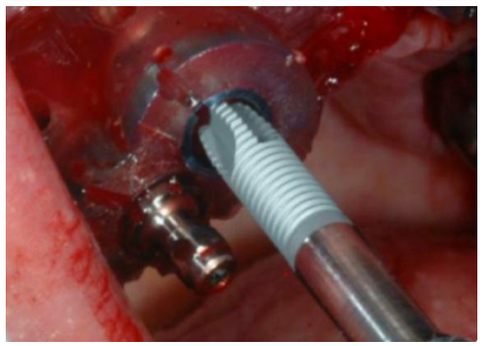
2INGIS
CONVENIENCE IN IMPLANTOLOGY

Comparing 2INGIS guide / competition

	Standard Guide
✓ Hygiene & heat sterilisation	⊘
✓ Total open guide for flapless or flap surgery	⊘
Anesthesia with guide in place	
✓ Visibility on the surgery	⊘
✓ Irrigation	⊘
✓ Small interdental spaces or close implants	⊘
✓ All instruments in 1 hand	⊘
✓ Use of conical bone expanders	⊘
✓ Placement of Conical implants	⊘
✓ Implant placement without guide contact	⊘
✓	⊘

CONVENIENCE IN IMPLANTOLOGY

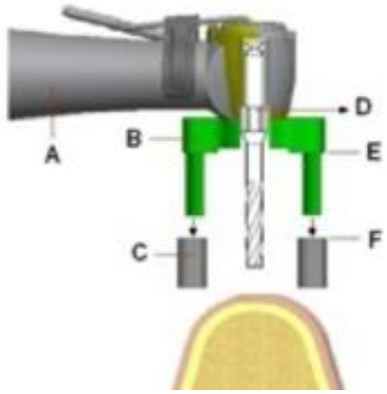
What kind of guides provide 2INGIS?

2INGIS provide only 3D metal printed guides

- Guides for 2mm metal pilot drill

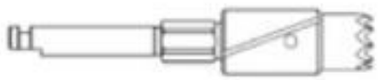
- Guides for gradual metal drilling

- Twin guide for optimal drilling and implant placement



2INGIS
CONVENIENCE IN IMPLANTOLOGY

What can you do with the 2ingis Twin guide?



- You can cut the gingiva with a trephine 400 RPM.

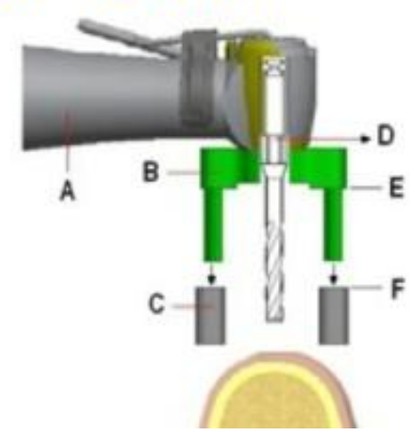
- You can use Zircon drills for better drilling and less heat risk 600 -1000 RMP.

- You can cut the bone with zircon drills on 30- 45 RPM.

- You can do motor controlled bone expanders 30- 45 RPM

- You can do motor controlled Sinus lifting 30- 45 RPM

- You can place motor controlled any type of implants 30- 45 RPM



2INGIS
CONVENIENCE IN IMPLANTOLOGY

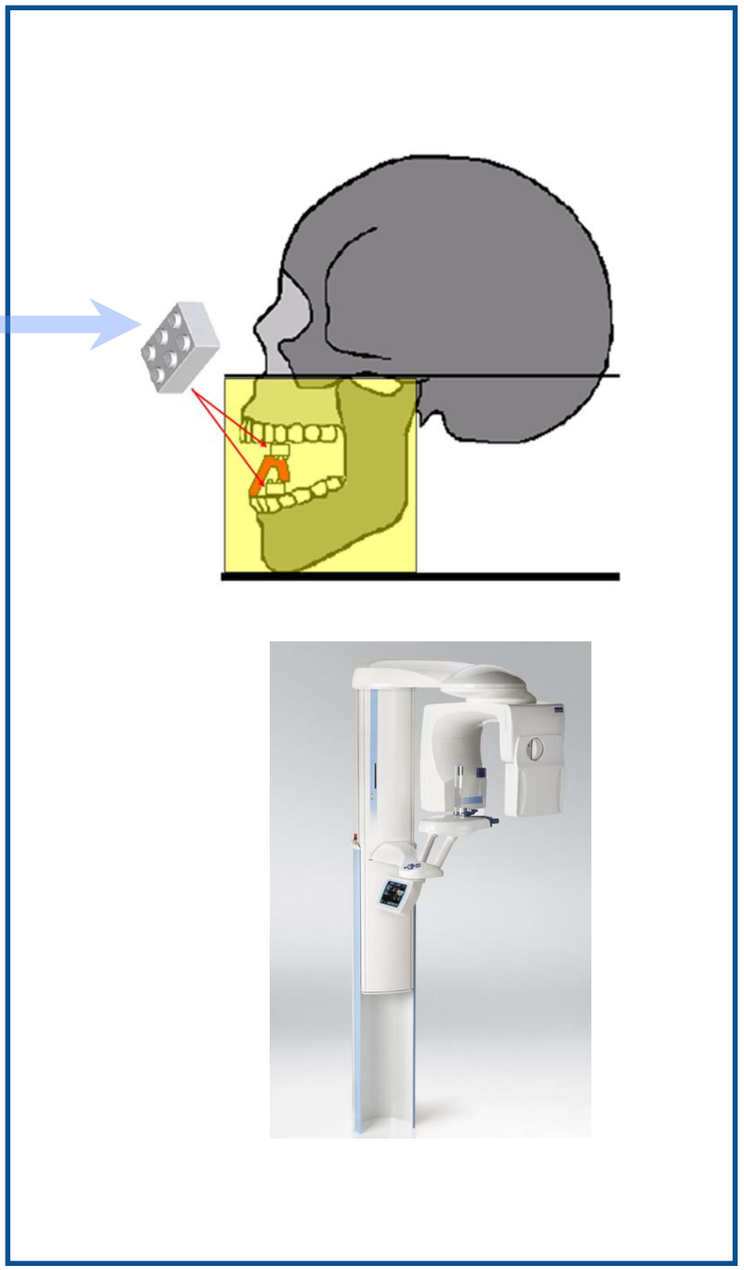
2INGIS Step by Step

2INGIS
CONVENIENCE IN IMPLANTOLOGY

Step 1: Impression with 2INGIS Xray guide

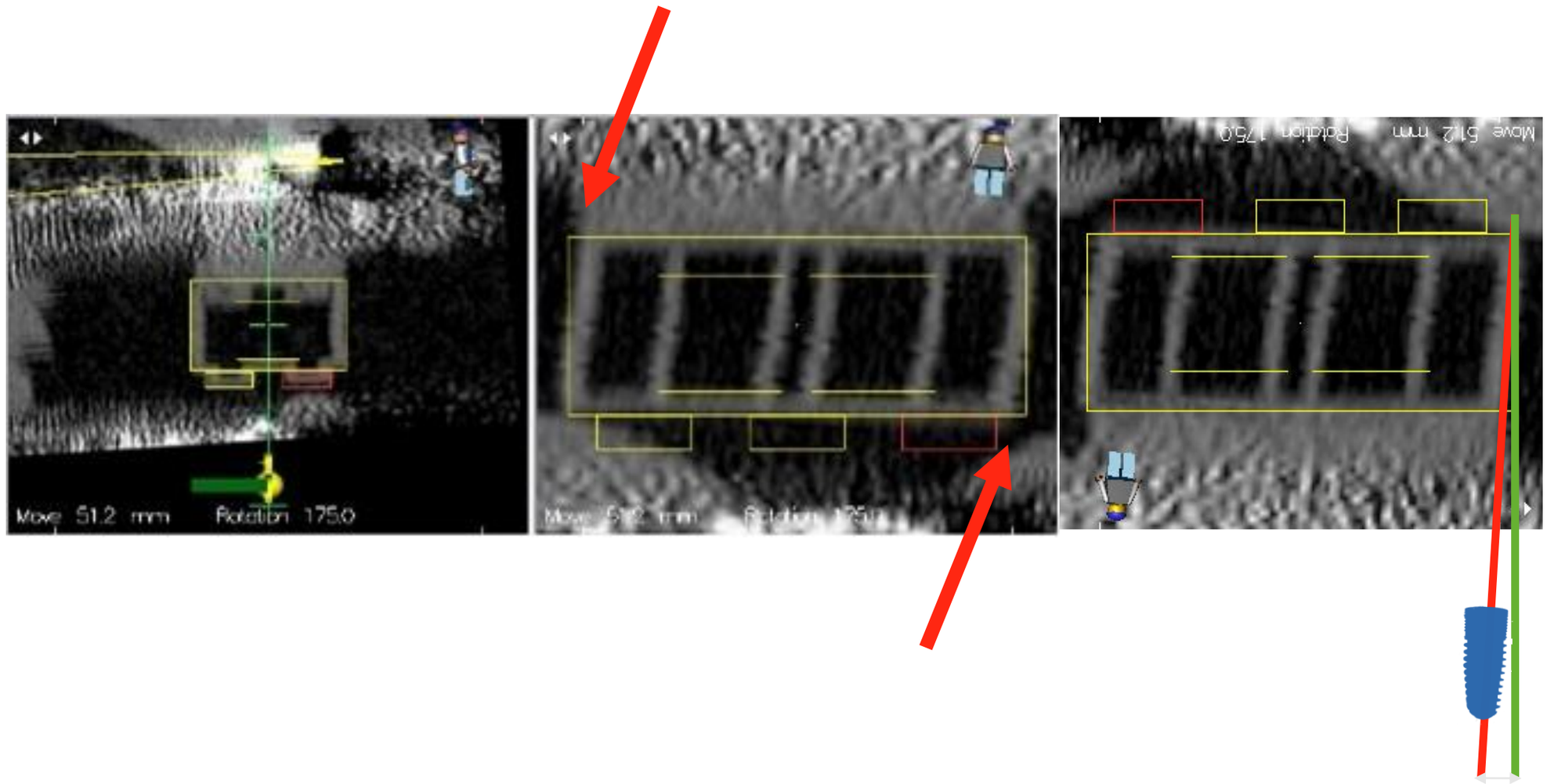
2INGIS
CONVENIENCE IN IMPLANTOLOGY

Medical 3D scanning of:
Patient with Xray guide and LEGO Brick in his mouth



2INGIS
CONVENIENCE IN IMPLANTOLOGY

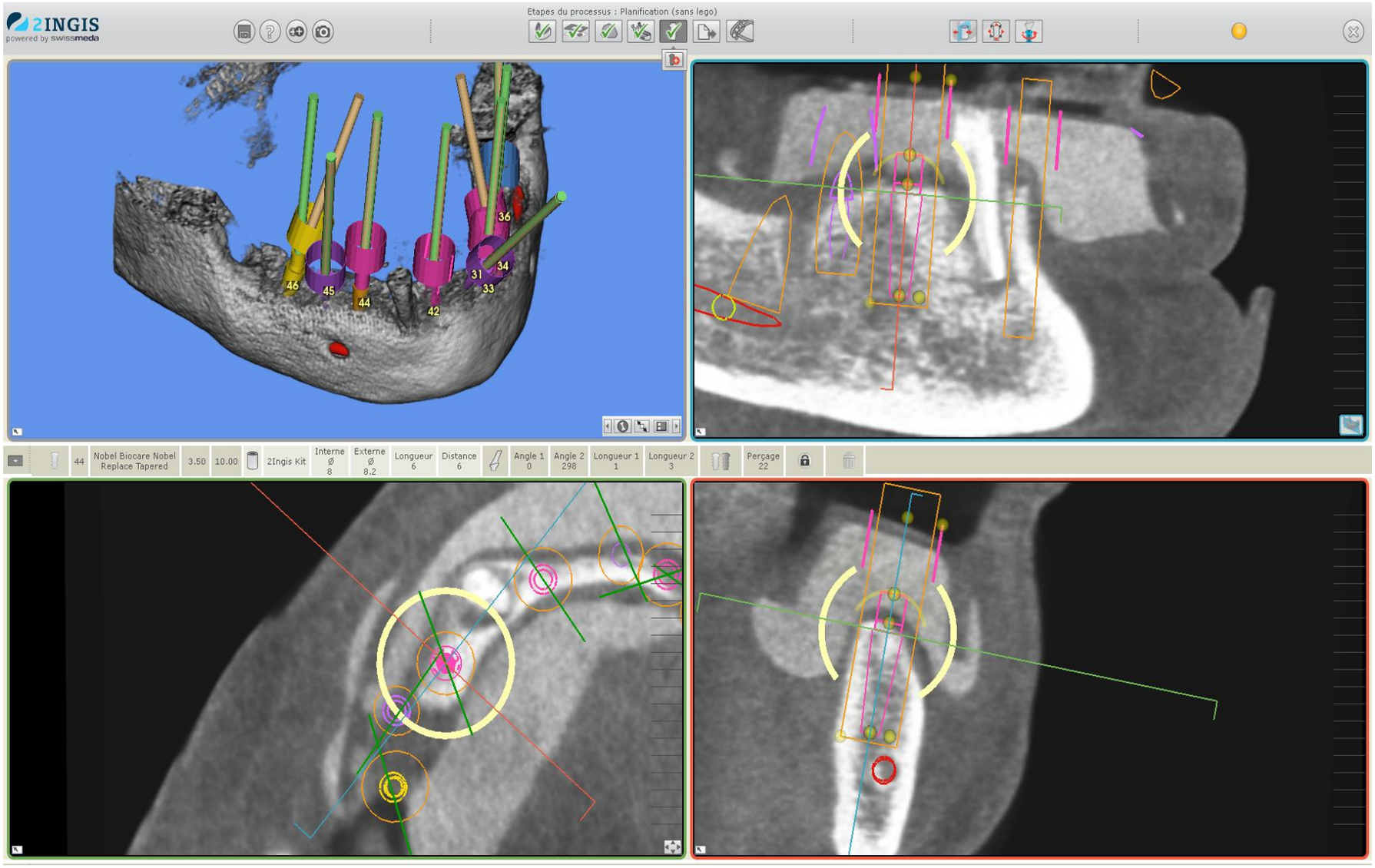
Why a LEGO brick?



- Easy to find everywhere in the world.
- Radio opaque, easy to detect any RX deformation.
- Precise & cost effective

2INGIS
CONVENIENCE IN IMPLANTOLOGY

Step 2: First CBCT analyze to look if implants placements are possible



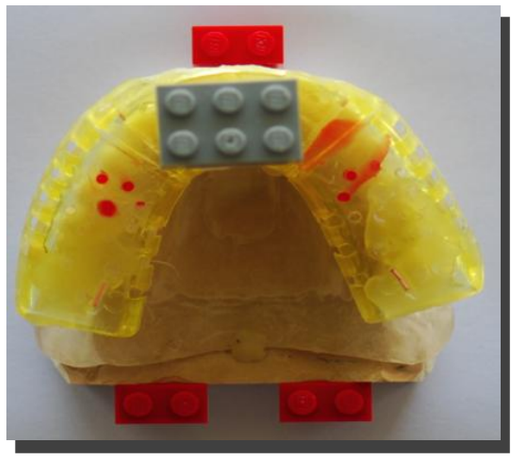
2INGIS
CONVENIENCE IN IMPLANTOLOGY

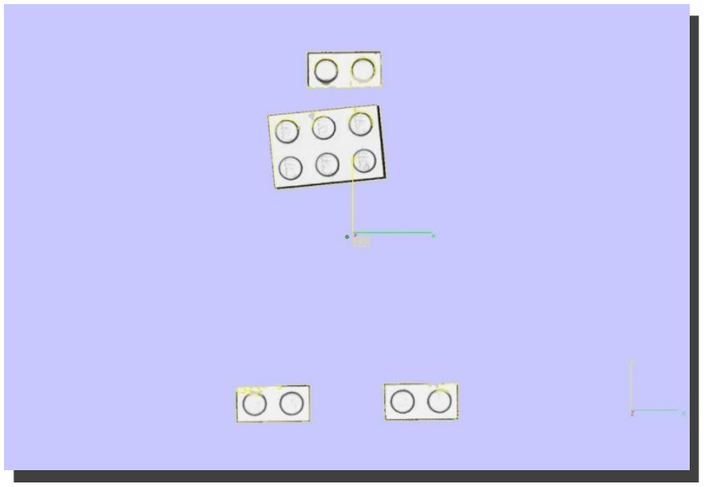
Start situation

Step 3 : Set up evaluation with the patient

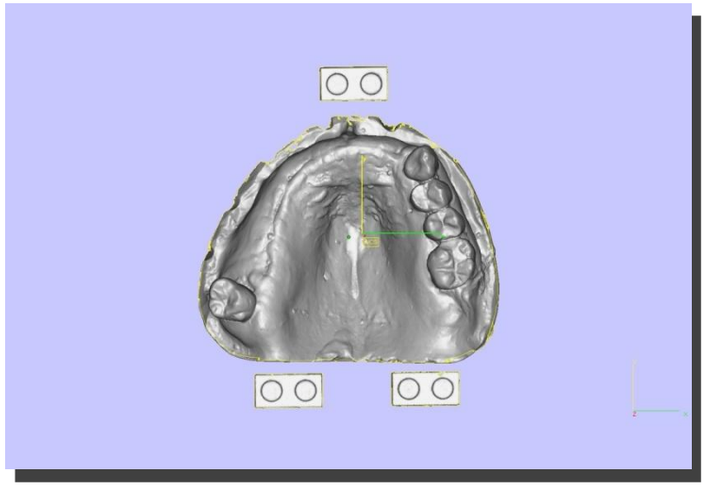
Esthetic and functional setup

Step 4 : Optical scanning of:

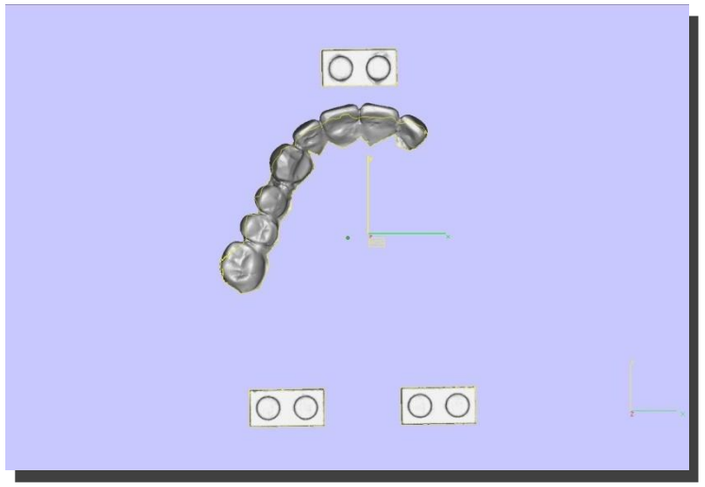




References



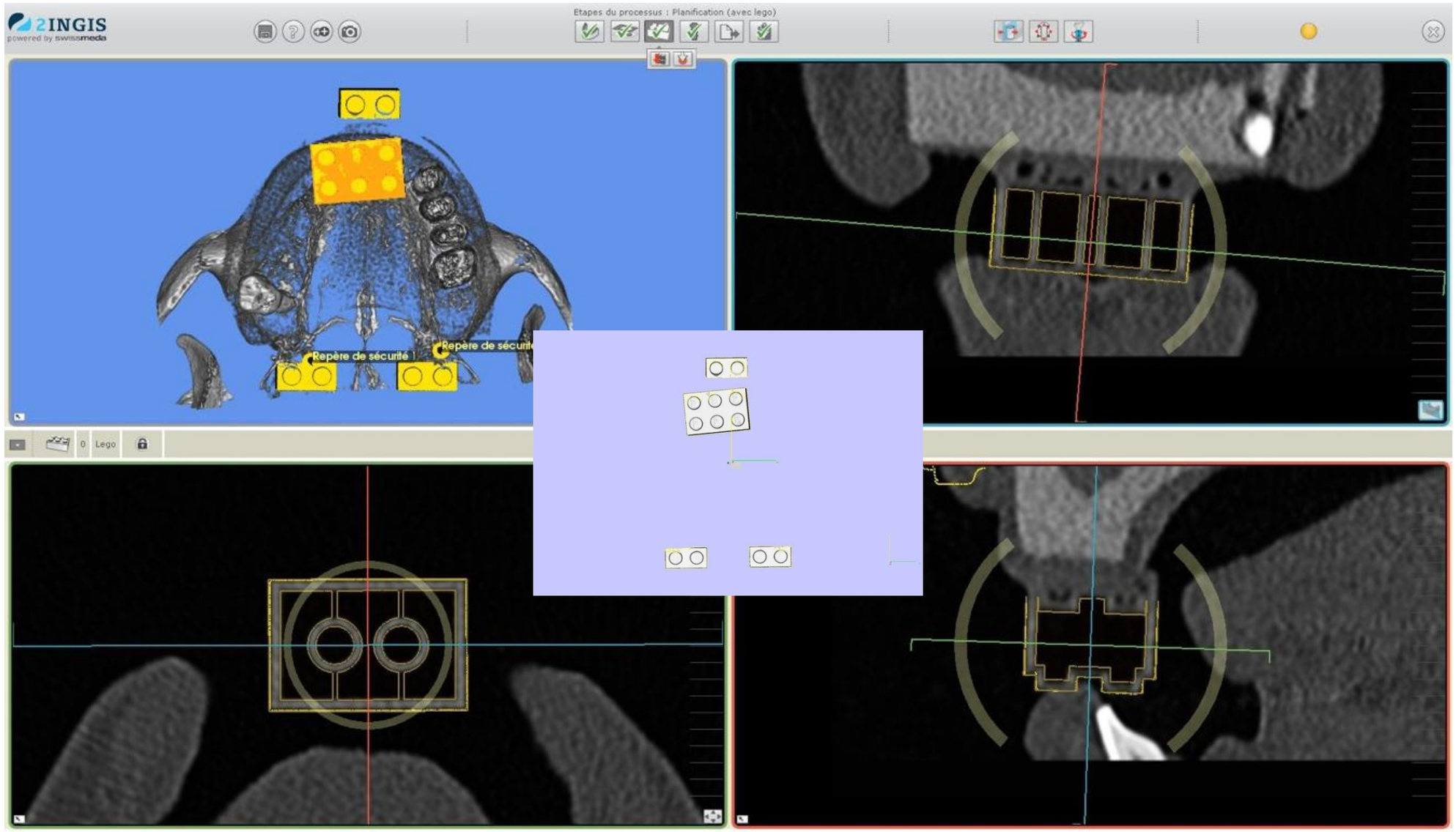
Model



Set up

2INGIS
CONVENIENCE IN IMPLANTOLOGY

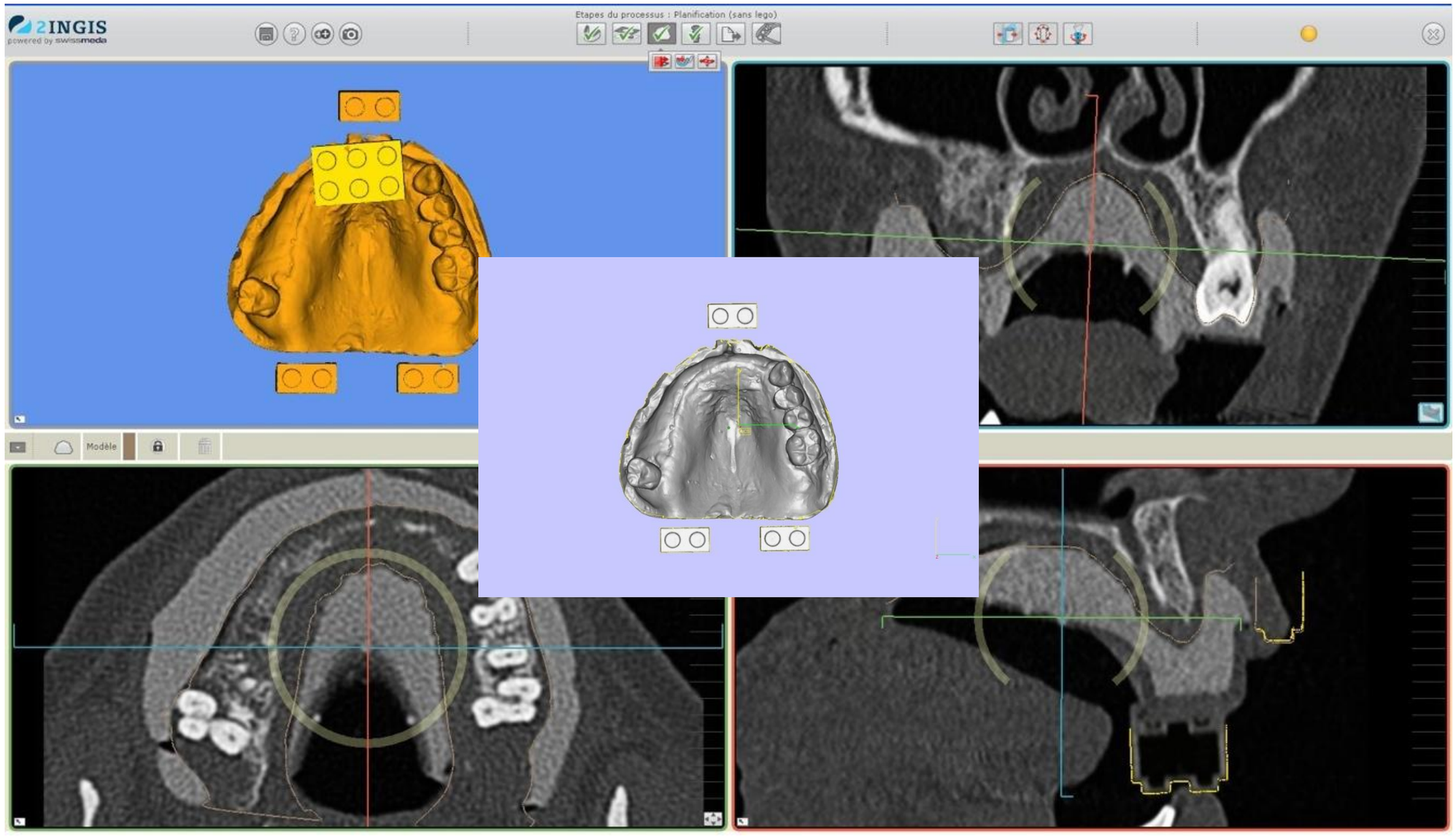
Step 5 : Integration of the STL files in Implant planning program



Basic CBCT images with reference

2INGIS
CONVENIENCE IN IMPLANTOLOGY

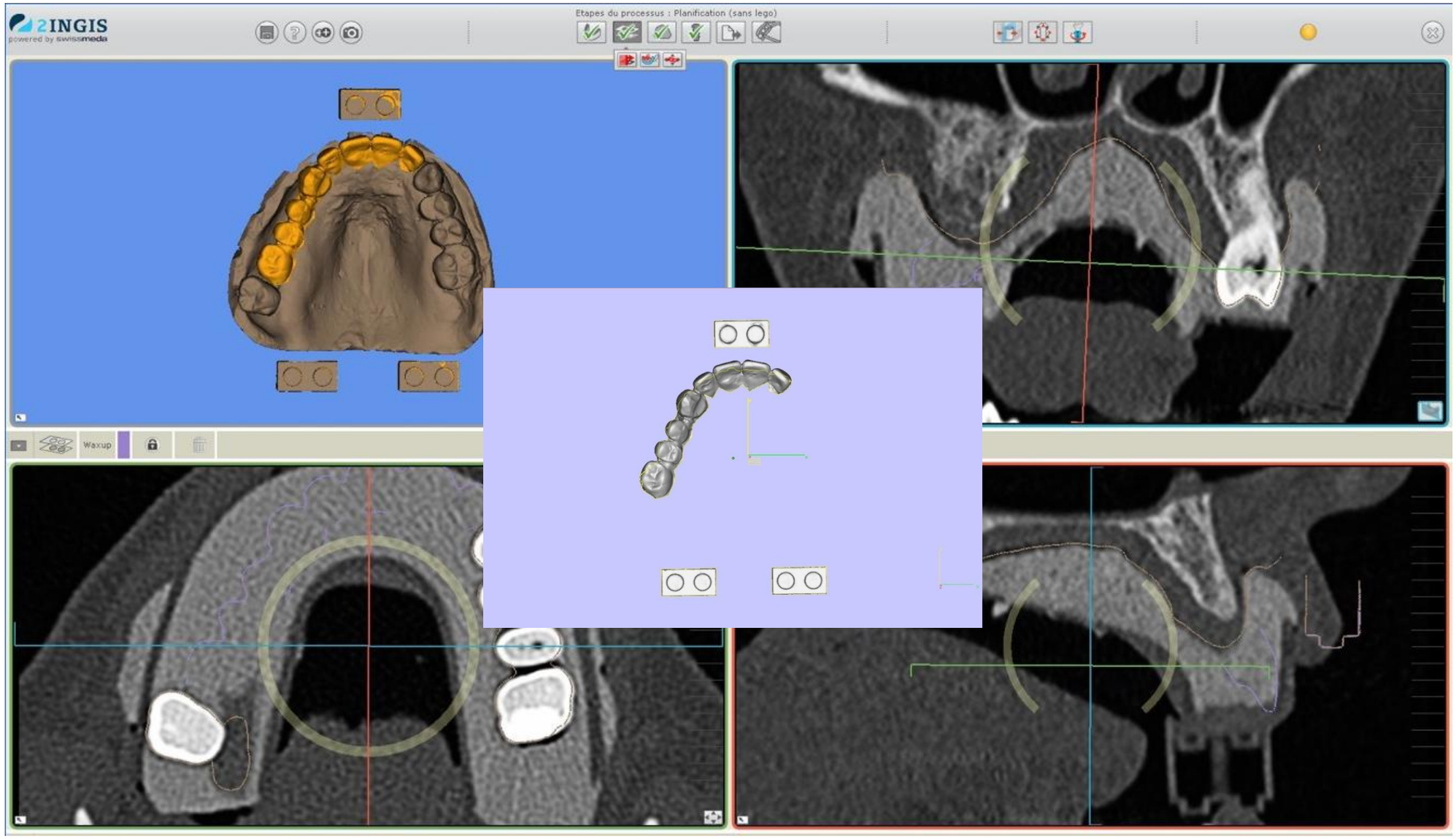
Step 5 : Integration of the STL files in Implant planning program



Integration of Model STL

2INGIS
CONVENIENCE IN IMPLANTOLOGY

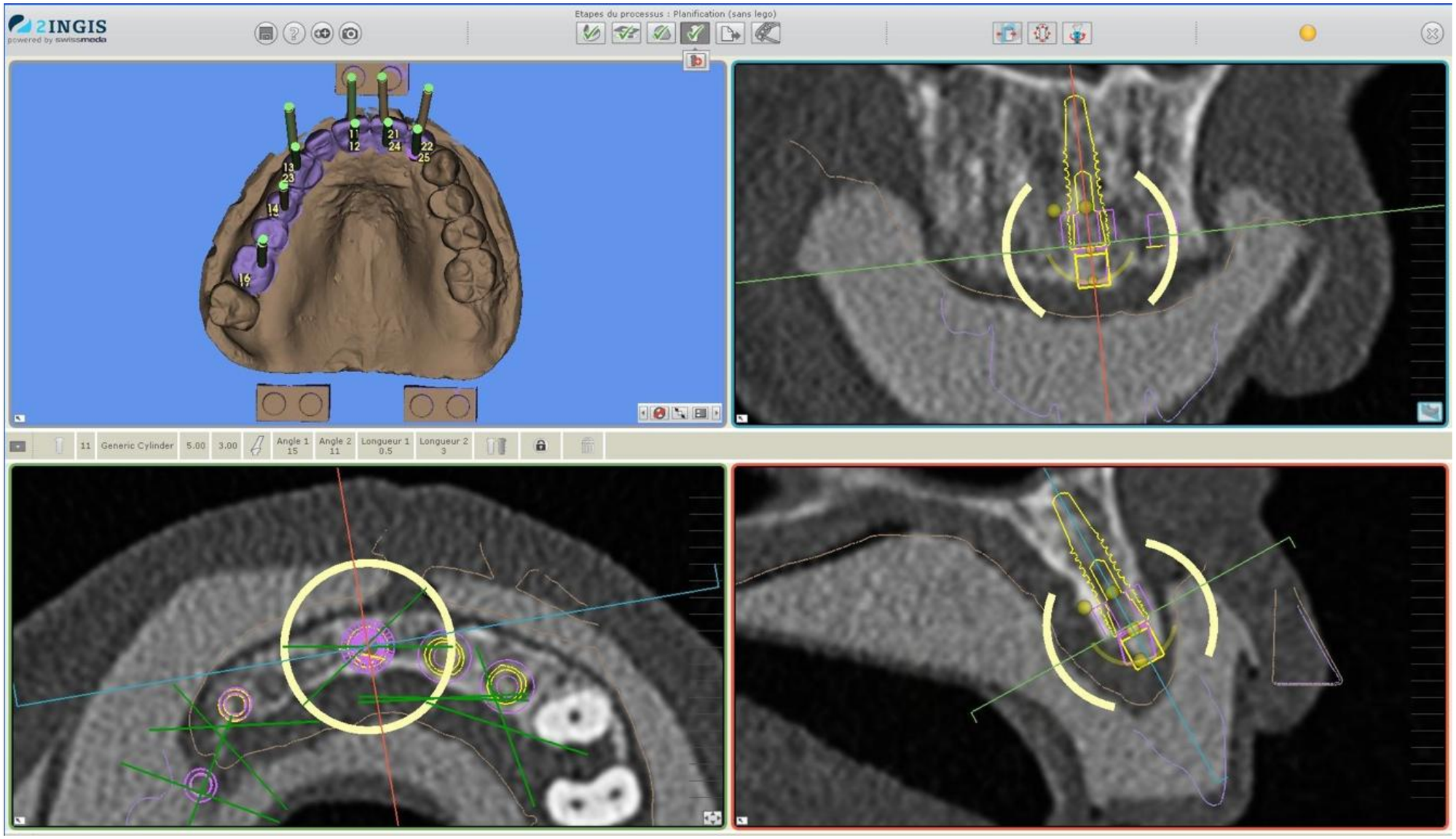
Step 5 : Integration of the STL files in Implant planning program



Integration of Set Up STL

2INGIS
CONVENIENCE IN IMPLANTOLOGY

Step 6 : Implant planning



2INGIS
CONVENIENCE IN IMPLANTOLOGY

Step 7 : The 2INGIS Surgical guide is produced with SLM technology

STL design

Print process

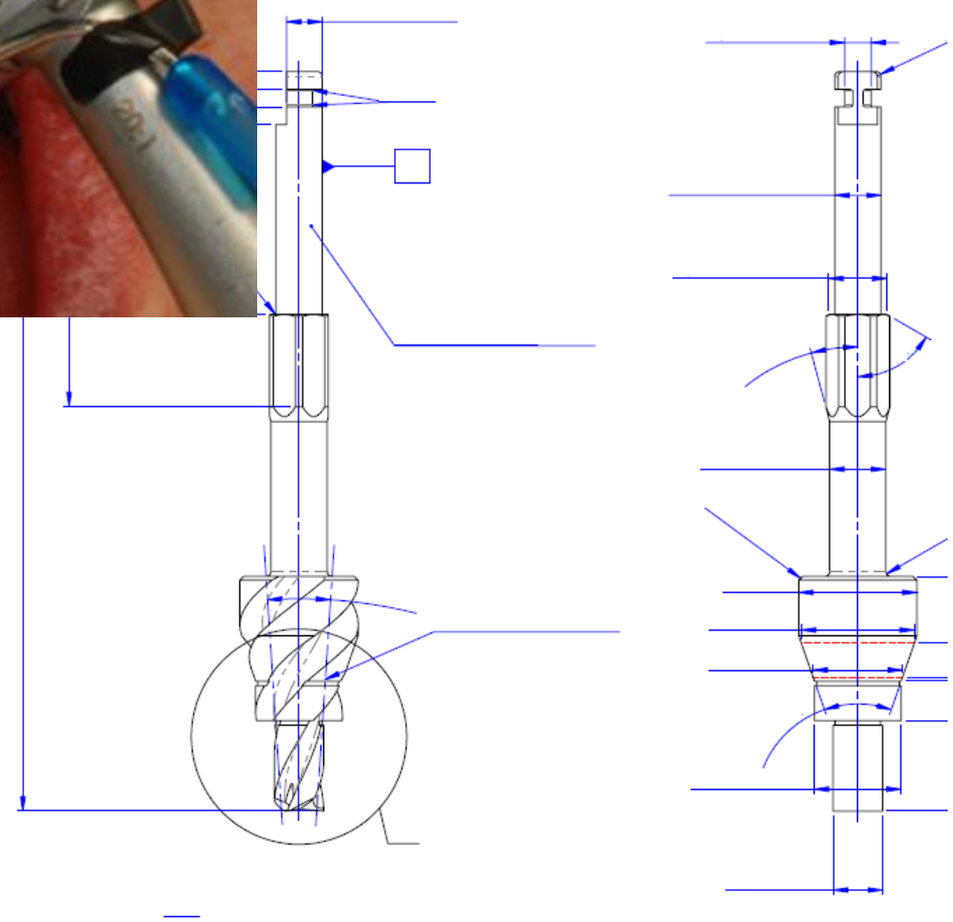
Printed surgical guide

2INGIS
CONVENIENCE IN IMPLANTOLOGY

- 2INGIS develop zircon drills for implant companies.

2INGIS
CONVENIENCE IN IMPLANTOLOGY

2INGIS develop Special drill designs new applications, for optimize security and predictability

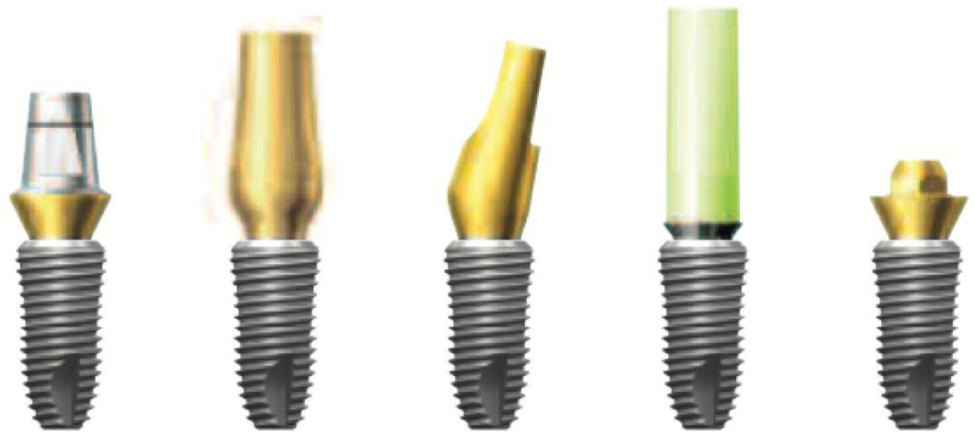


2INGIS
CONVENIENCE IN IMPLANTOLOGY

- The 2INGIS guides are the only guides in the world adapted to any implant design.

2INGIS
CONVENIENCE IN IMPLANTOLOGY

- The 2INGIS guided surgery offers the possibility to use in the most cases standard prosthetic parts.



2INGIS
CONVENIENCE IN IMPLANTOLOGY

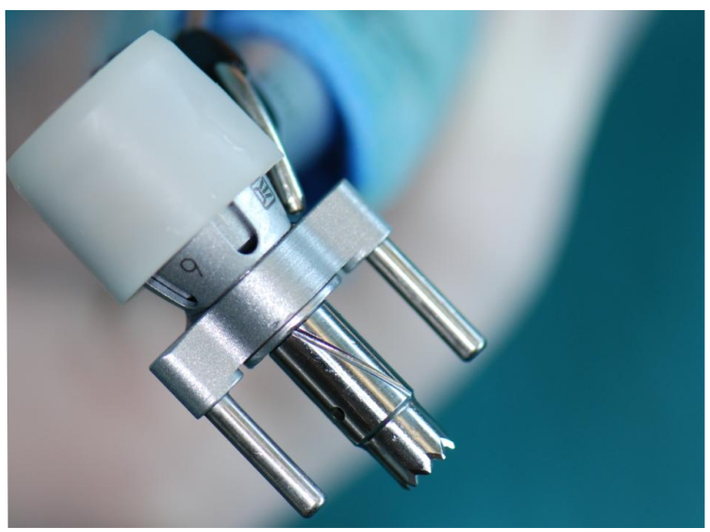
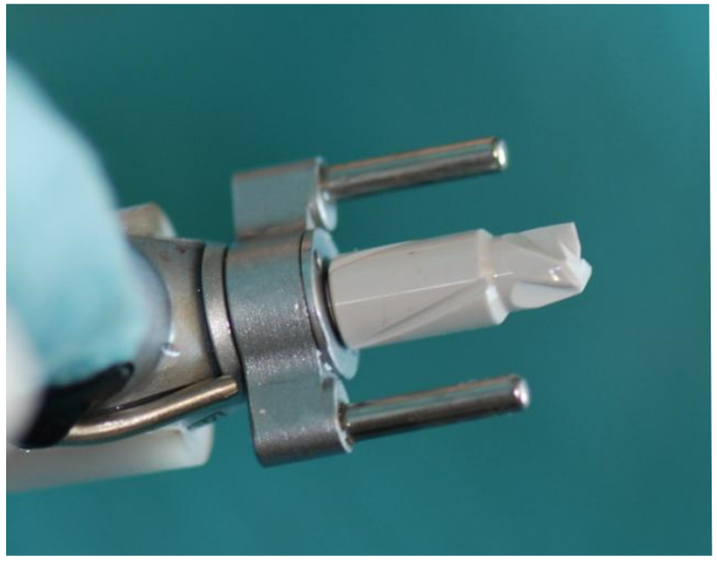
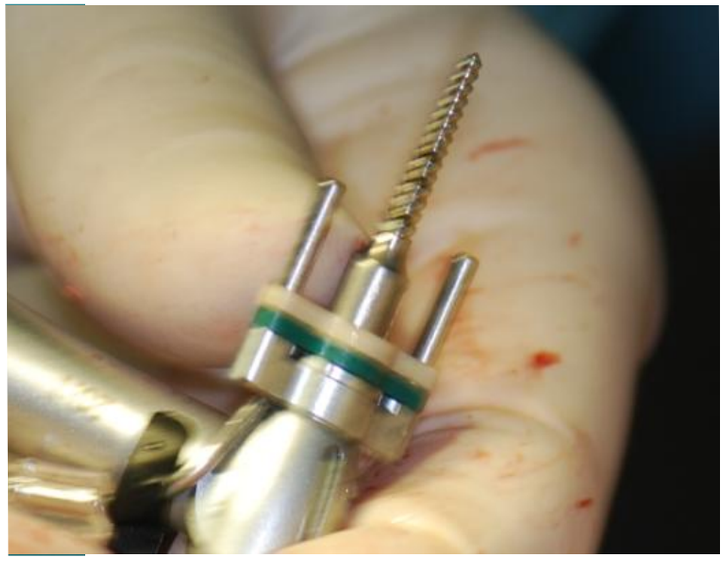
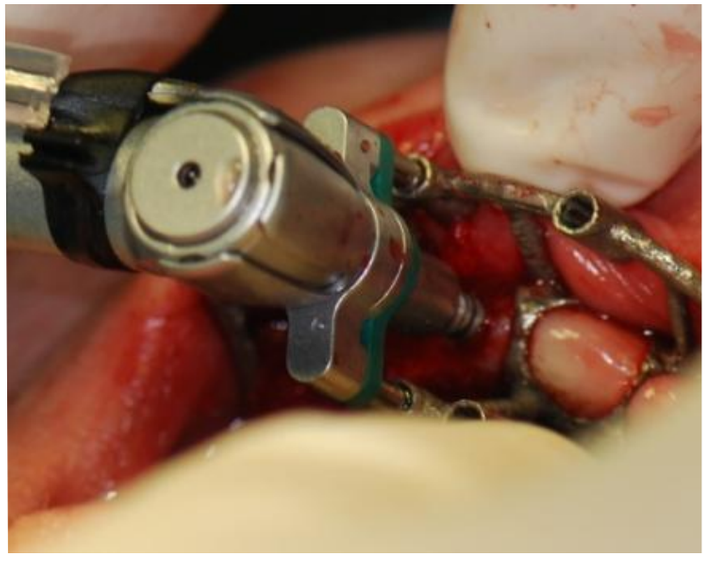
- Some 2INGIS Guided surgery cases.

2INGIS
CONVENIENCE IN IMPLANTOLOGY

Mis Seven

A: Placement of Conical implants and immediate loading

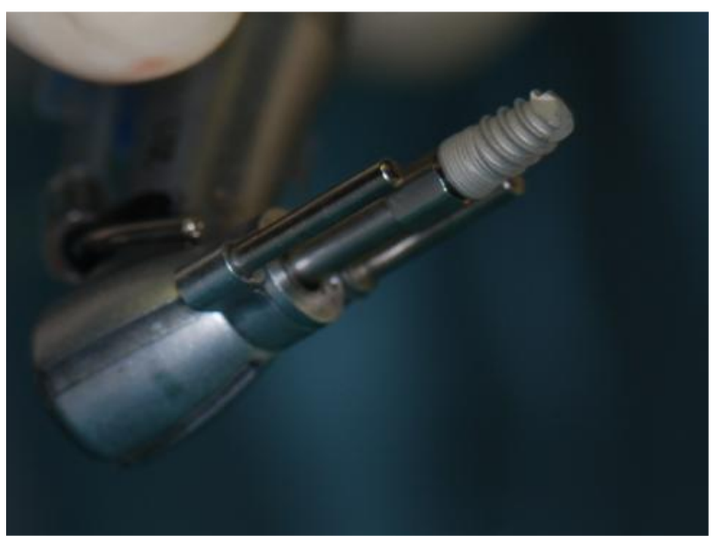
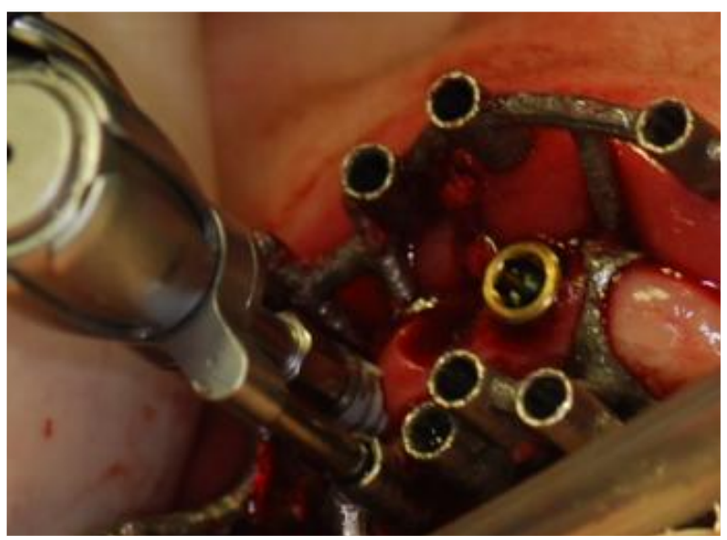
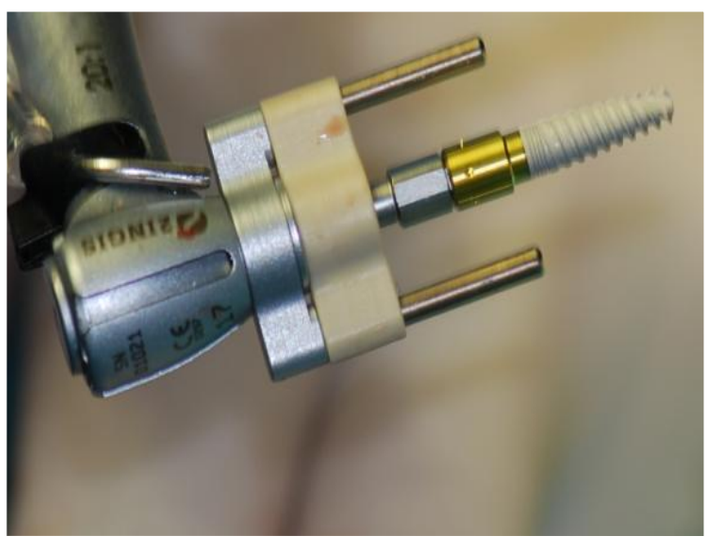
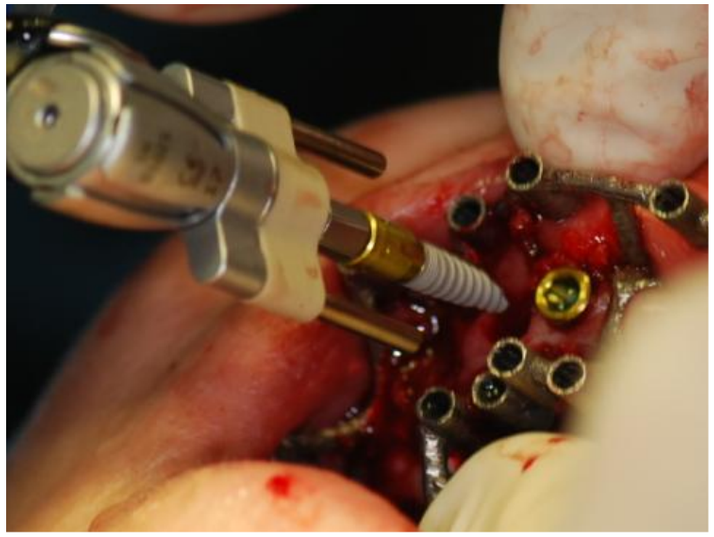
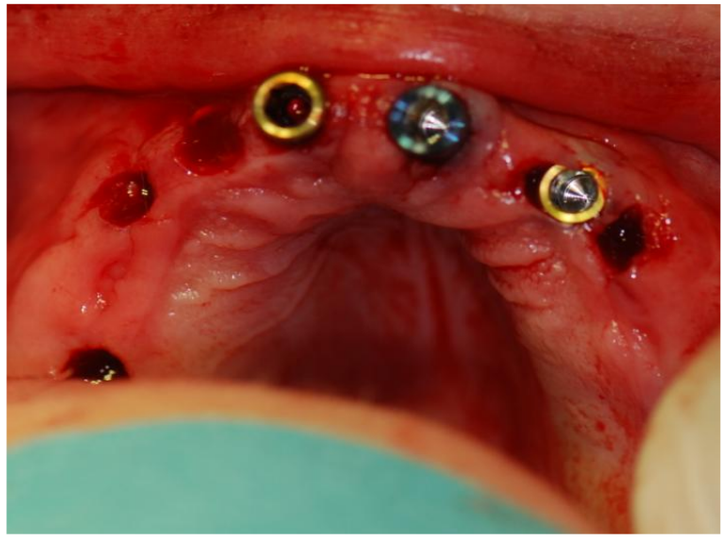


2INGIS
CONVENIENCE IN IMPLANTOLOGY

Mis Seven

A: Placement of Conical implants and immediate loading

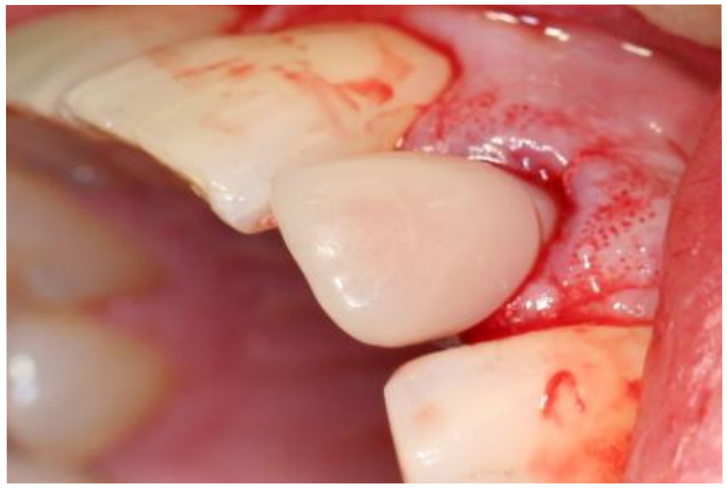

2INGIS
CONVENIENCE IN IMPLANTOLOGY

Mis Seven

B: Placement of Conical implants extraction and immediate loading








2INGIS
CONVENIENCE IN IMPLANTOLOGY

Biotech Kontact

C: Placement of Cylinder Conical implants and immediate loading






2INGIS
CONVENIENCE IN IMPLANTOLOGY

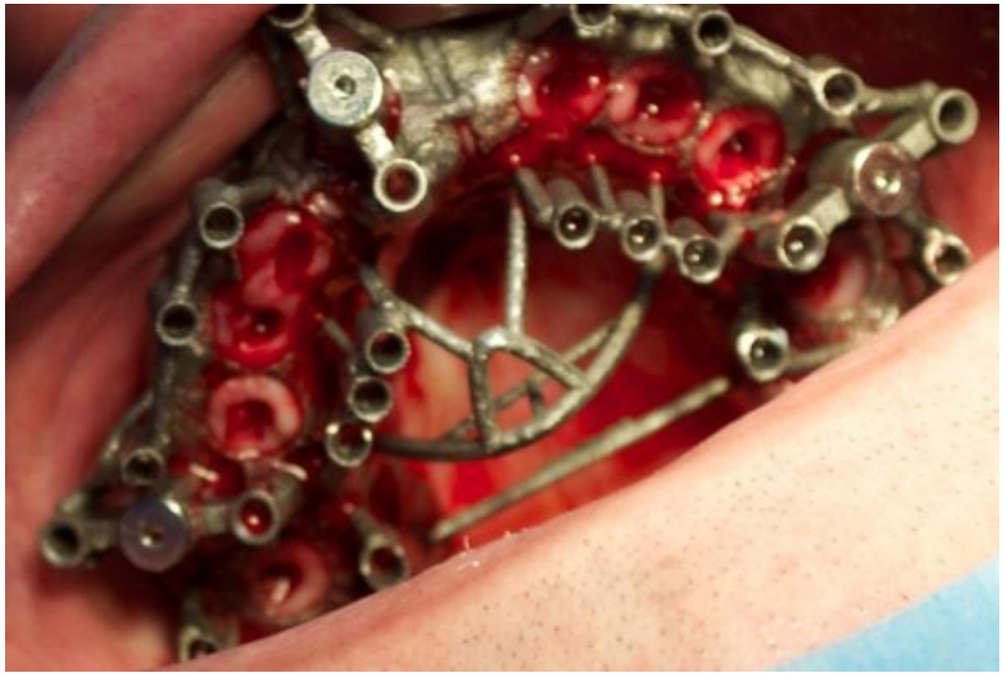
Biotech Kontact

C: Placement of Cylinder Conical implants and immediate loading
2 days later

2INGIS
CONVENIENCE IN IMPLANTOLOGY

Alpha Bio

D: Placement of Conical implants and immediate loading



2INGIS
CONVENIENCE IN IMPLANTOLOGY

Alpha Bio

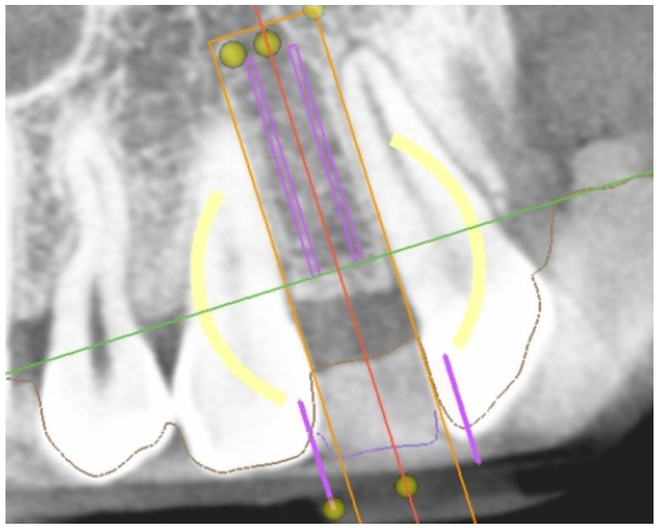
D: Placement of Conical implants and immediate loading

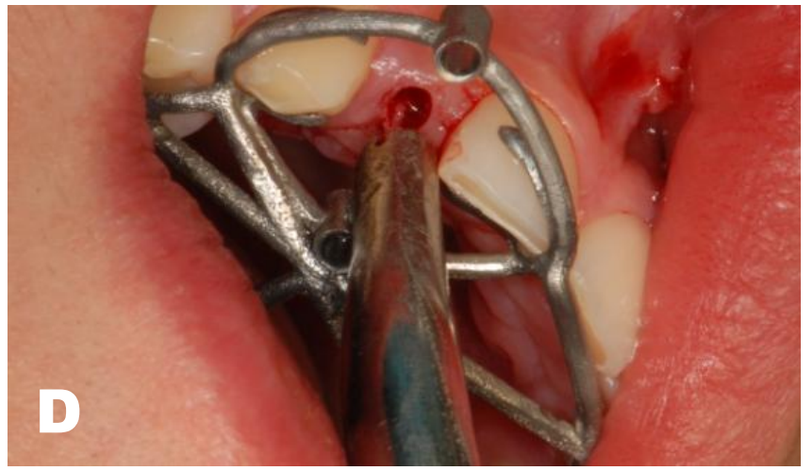
6 Implants in place with temporary restauration

2INGIS
CONVENIENCE IN IMPLANTOLOGY

Anthogyr 2.8

E: Placement of Cylinder Conical implants diameter 2.8 in narrow inter dental space 5mm



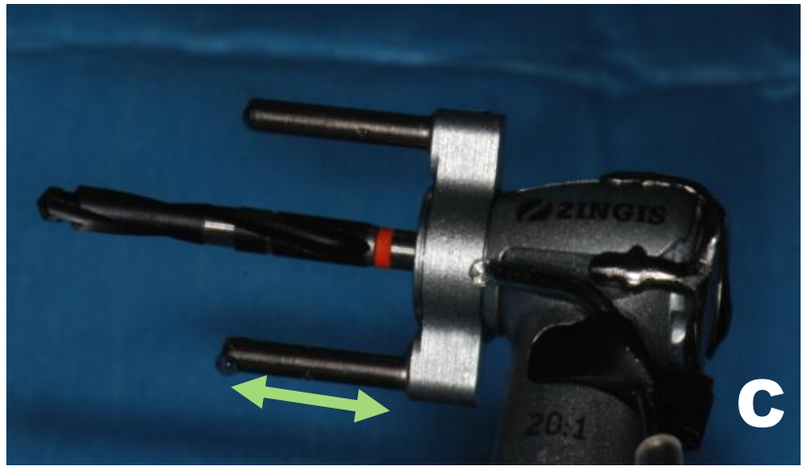


A: Guide in position
B: Punch with Spacer
C: Gingival cut
D: Gingival removing

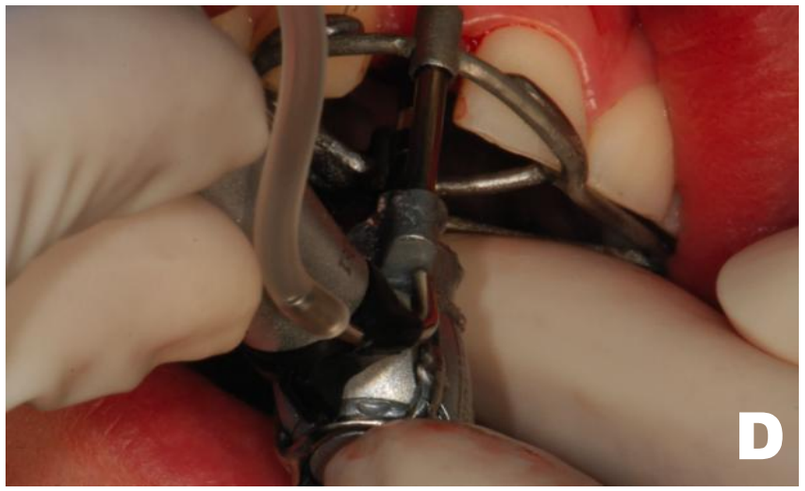
2INGIS
CONVENIENCE IN IMPLANTOLOGY

Anthogyr 2.8

E: Placement of Cylinder Conical implants diameter 2.8 in narrow inter dental space 5mm



A: 2INGIS ∅ 2 mm Zircone drill and 12mm guiding.
B: ∅ 2-2,6 mm drill and 17mm guiding



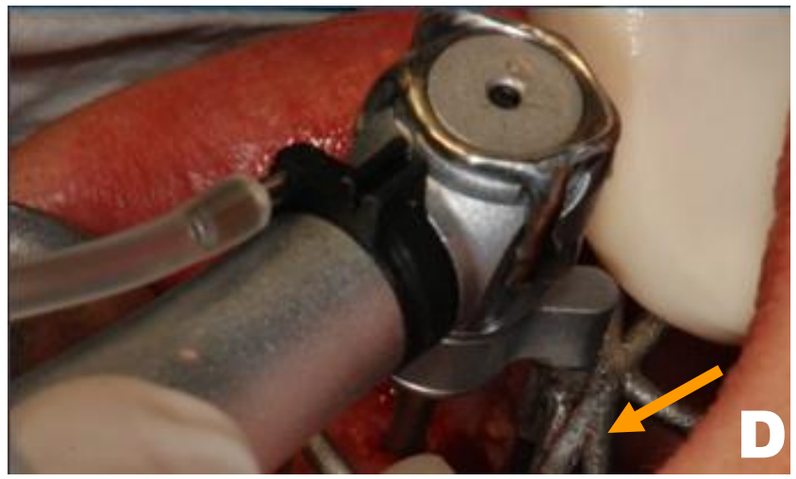
C: ∅2- 2,6 mm drill and 12mm guiding
D: Drill guiding

2INGIS
CONVENIENCE IN IMPLANTOLOGY

Anthogyr 2.8

E: Placement of Cylinder Conical implants diameter 2.8 in narrow inter dental space 5mm

A: Contra Angel Implant driver
B: Contra Angel Implant driver with 12 mm guiding

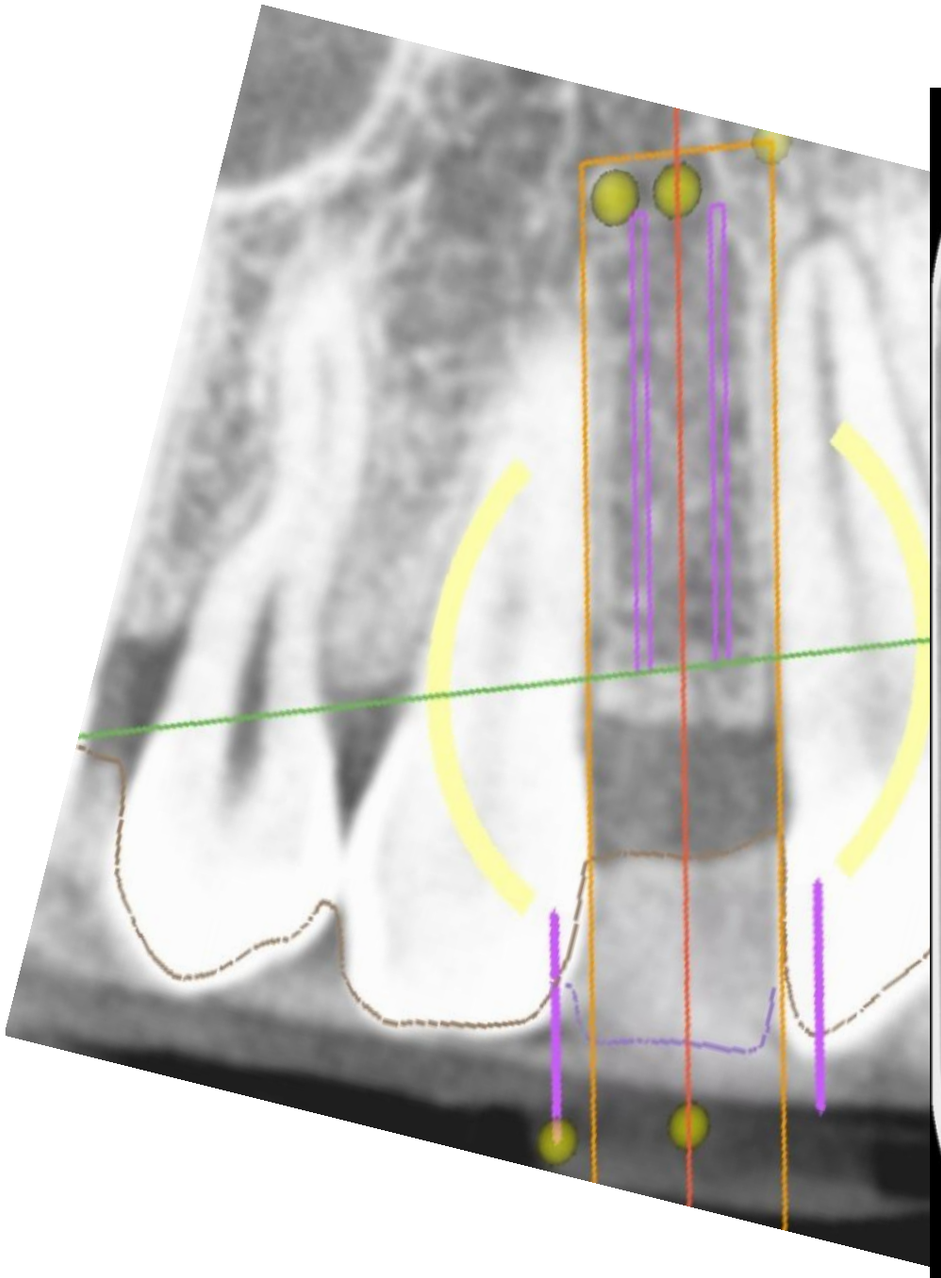


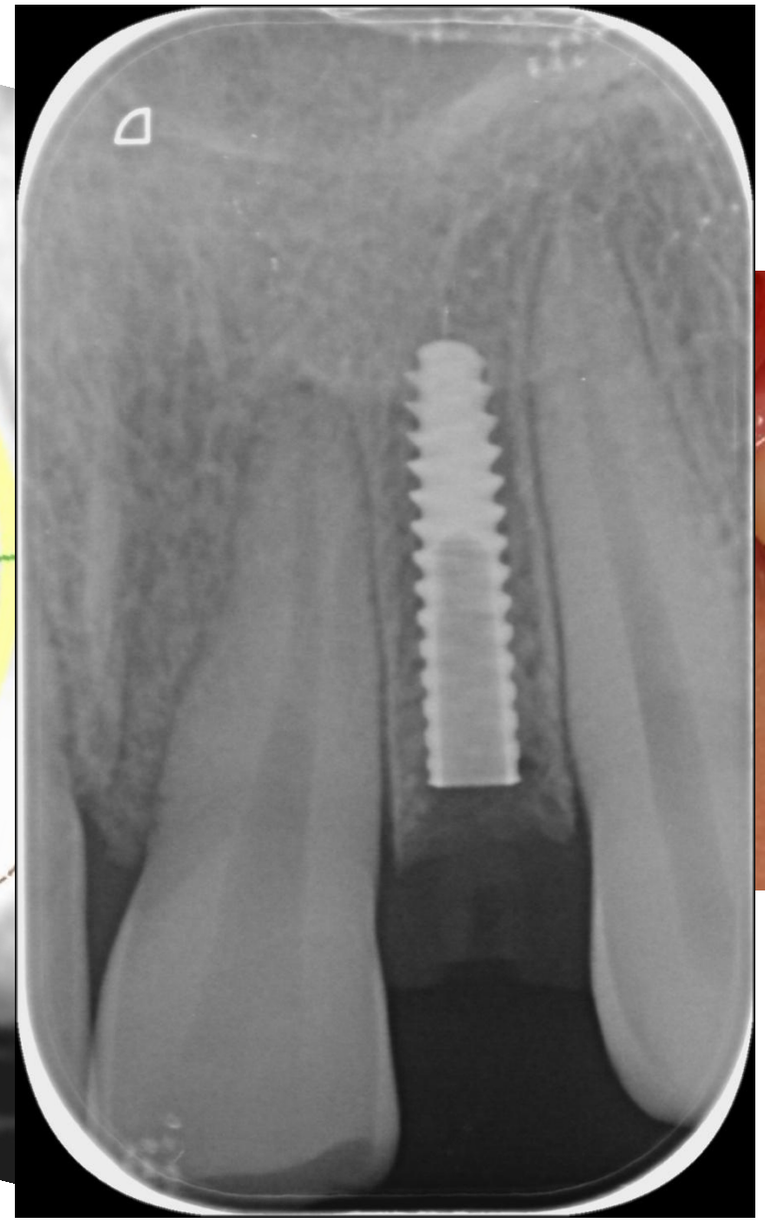
C: 2.8 implant placement
D: Placement of the implant on the right depth

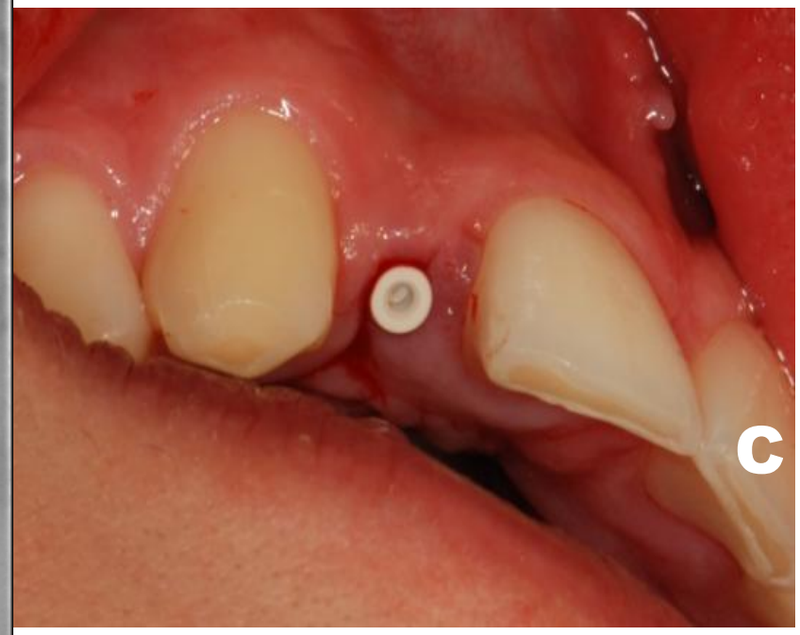
2INGIS
CONVENIENCE IN IMPLANTOLOGY

Anthogyr 2.8

E: Placement of Cylinder Conical implants diameter 2.8 in narrow inter dental space 5mm





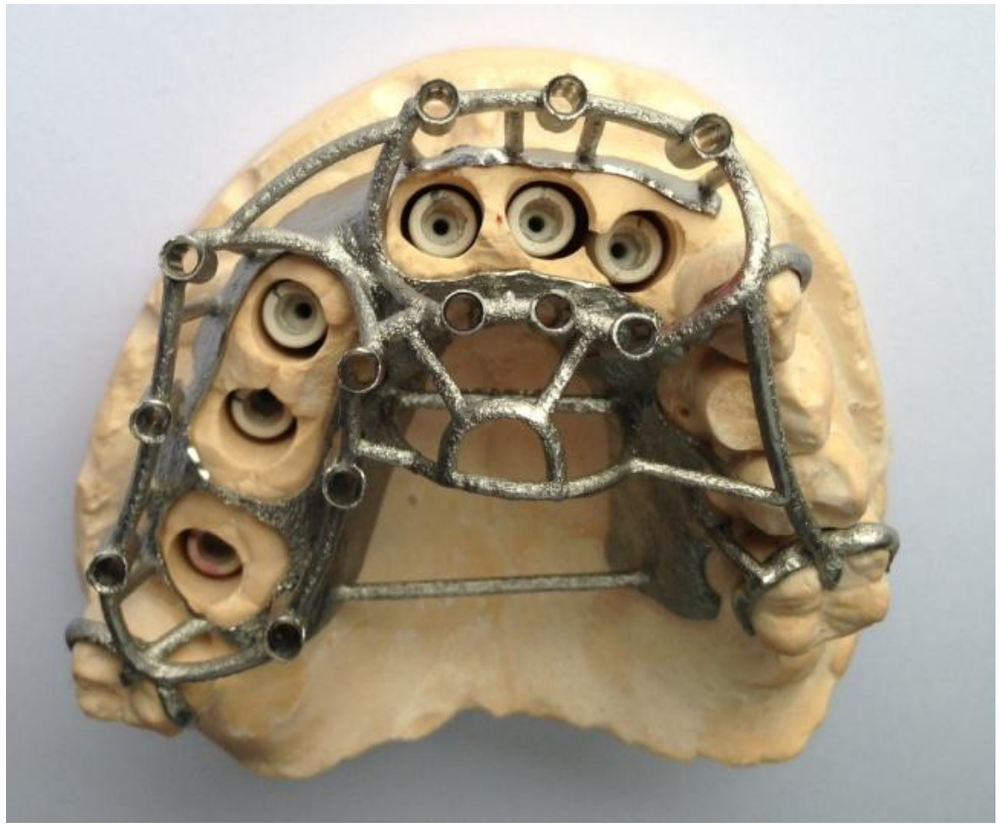


Final Result

2INGIS
CONVENIENCE IN IMPLANTOLOGY

SDS 2.0 Implants

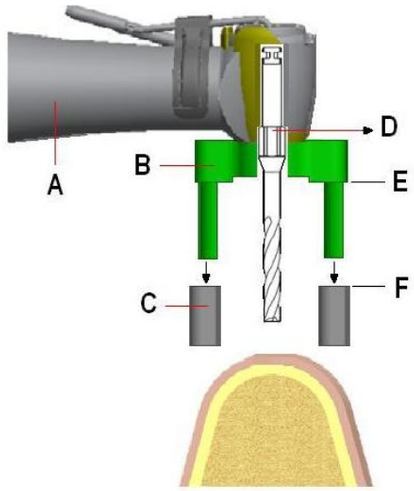
G: Placement of Cylinder Conical Zircon implants and immediate loading

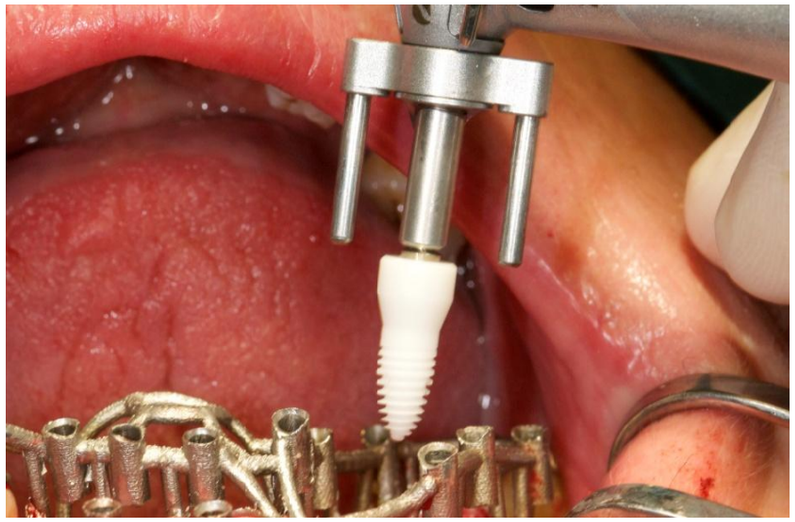


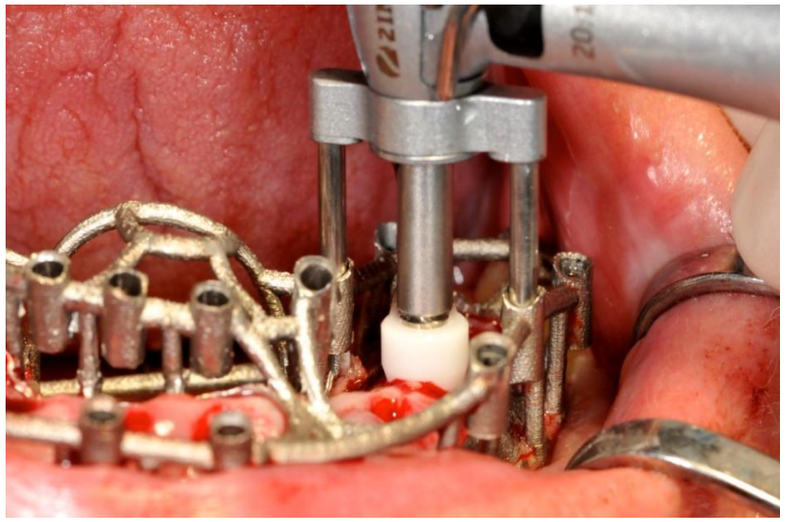
2INGIS
CONVENIENCE IN IMPLANTOLOGY

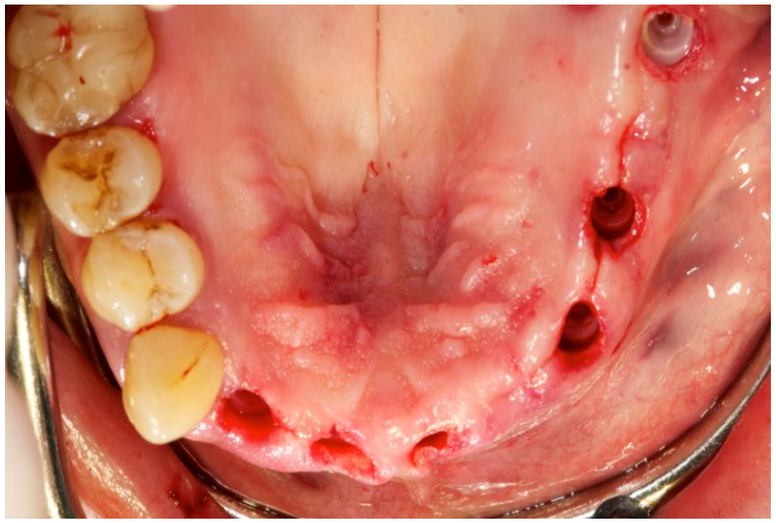
SDS 2.0 Implants

G: Placement of Cylinder Conical Zircon implants and immediate loading





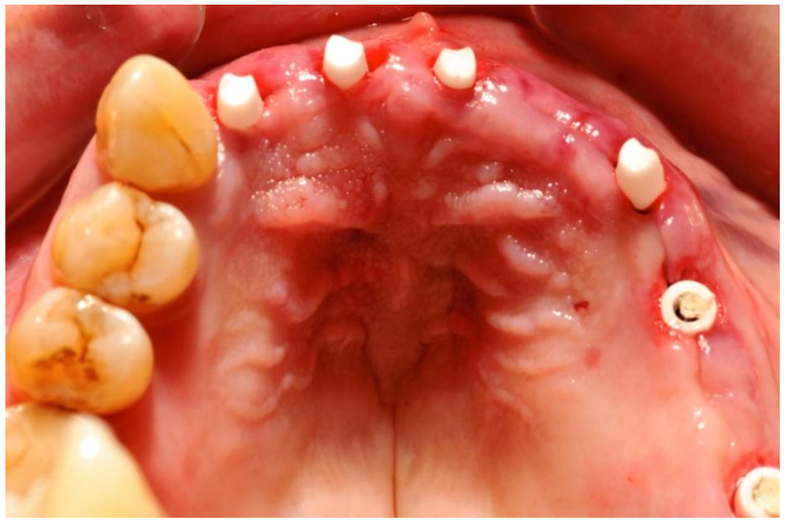




2INGIS
CONVENIENCE IN IMPLANTOLOGY

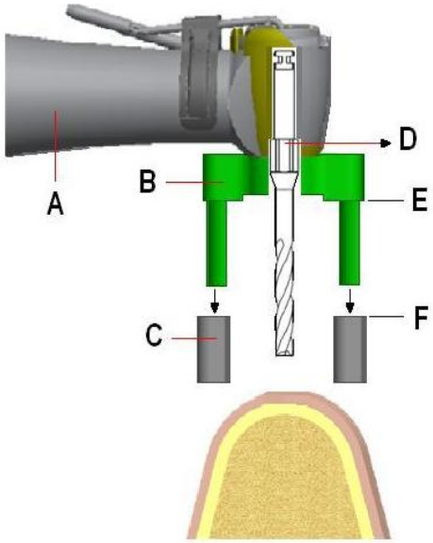
SDS 2.0 Implants

6: Placement of Cylinder Conical Zircon implants and immediate loading



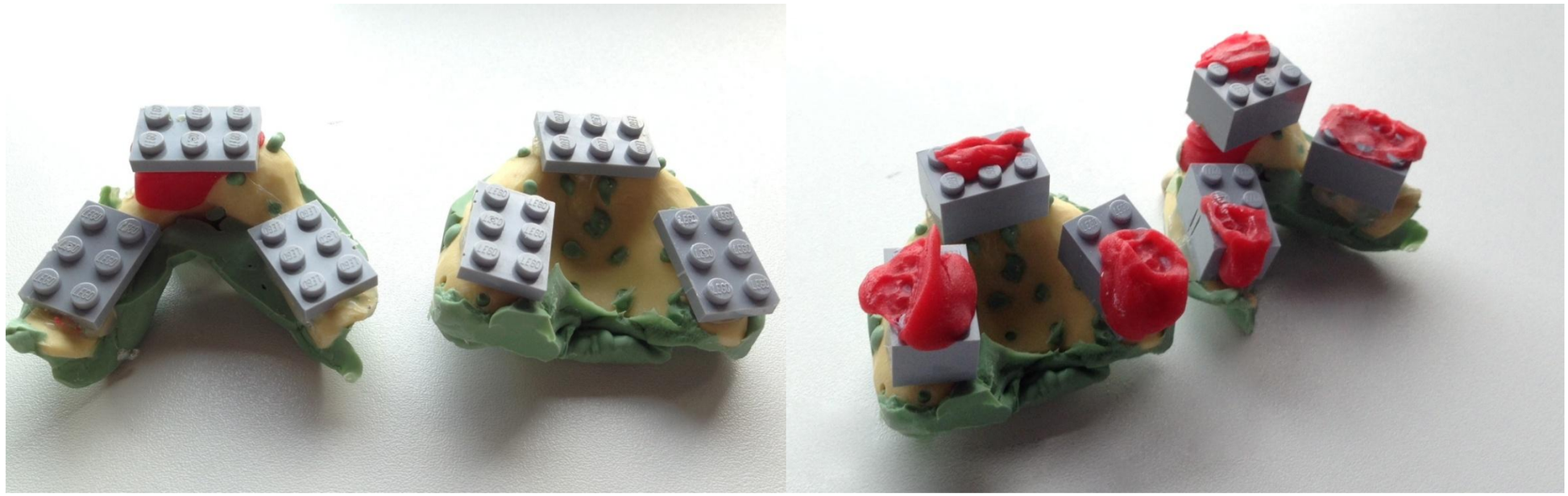
2INGIS
CONVENIENCE IN IMPLANTOLOGY

Dentium Slimline one Piece implants with 2INGIS Surgical Guiding System and immediate loading



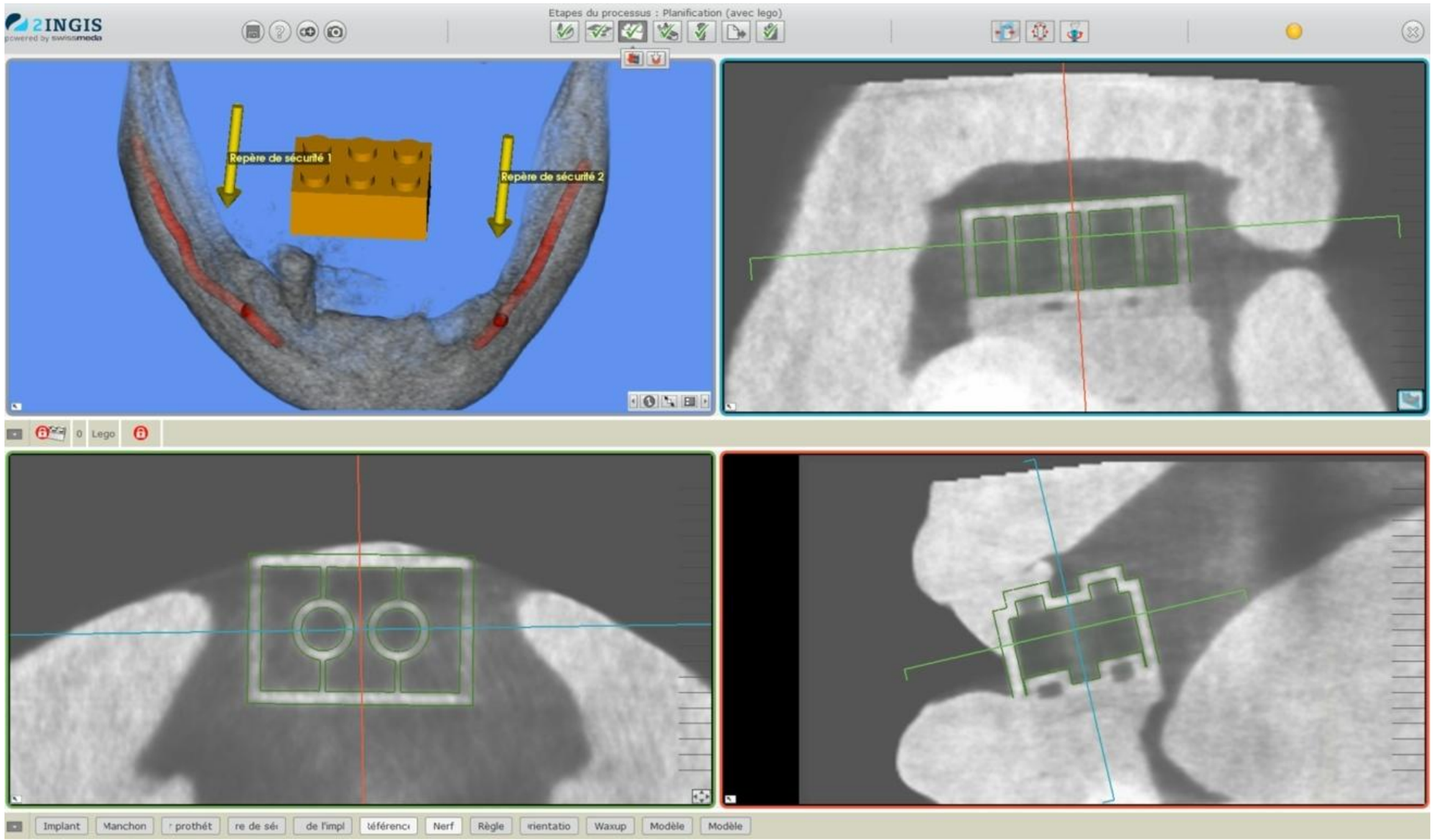
2INGIS
CONVENIENCE IN IMPLANTOLOGY

2INGIS Individual Xray guide



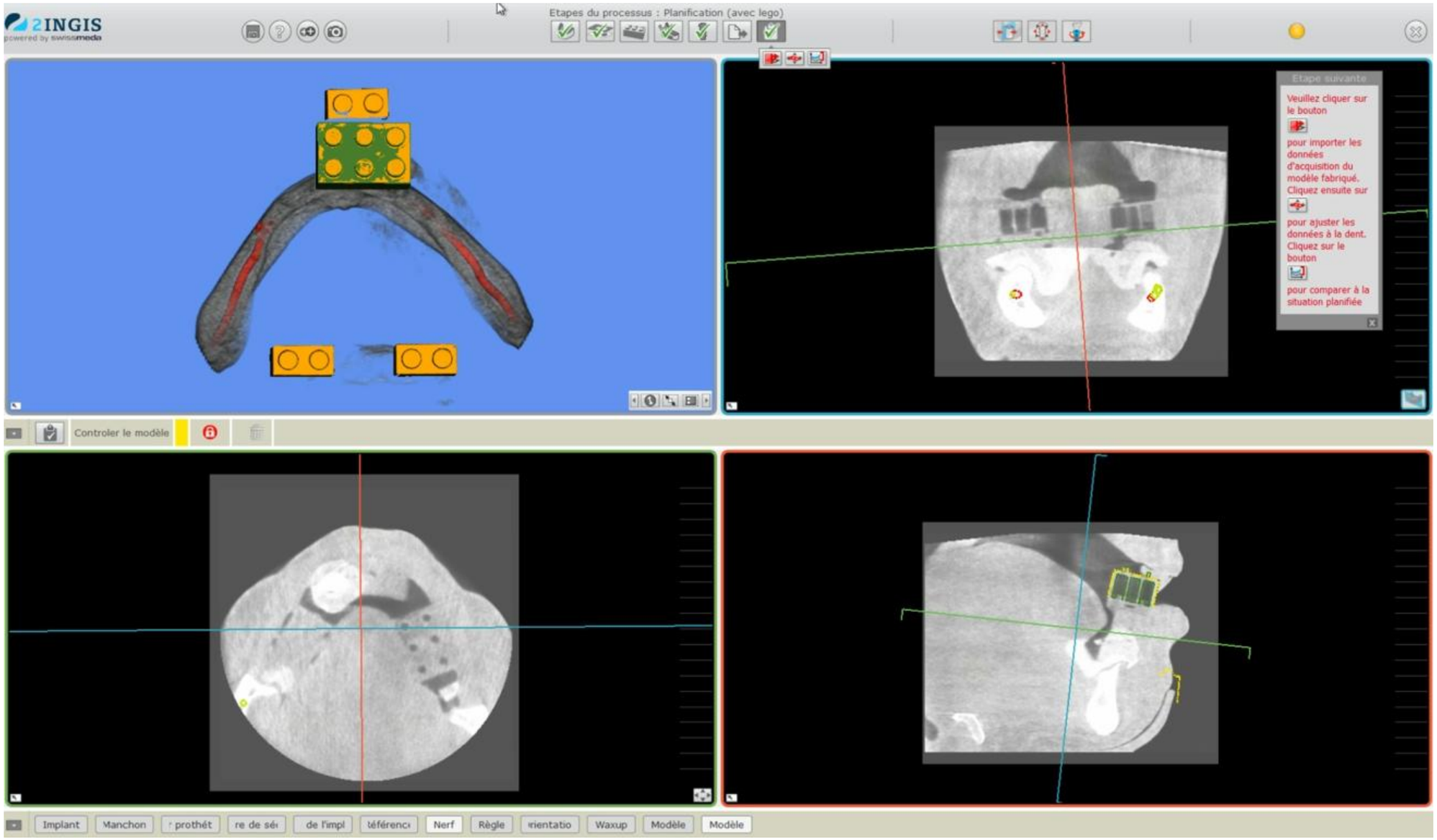
2INGIS
CONVENIENCE IN IMPLANTOLOGY

Xray LEGO Analysis



2INGIS
CONVENIENCE IN IMPLANTOLOGY

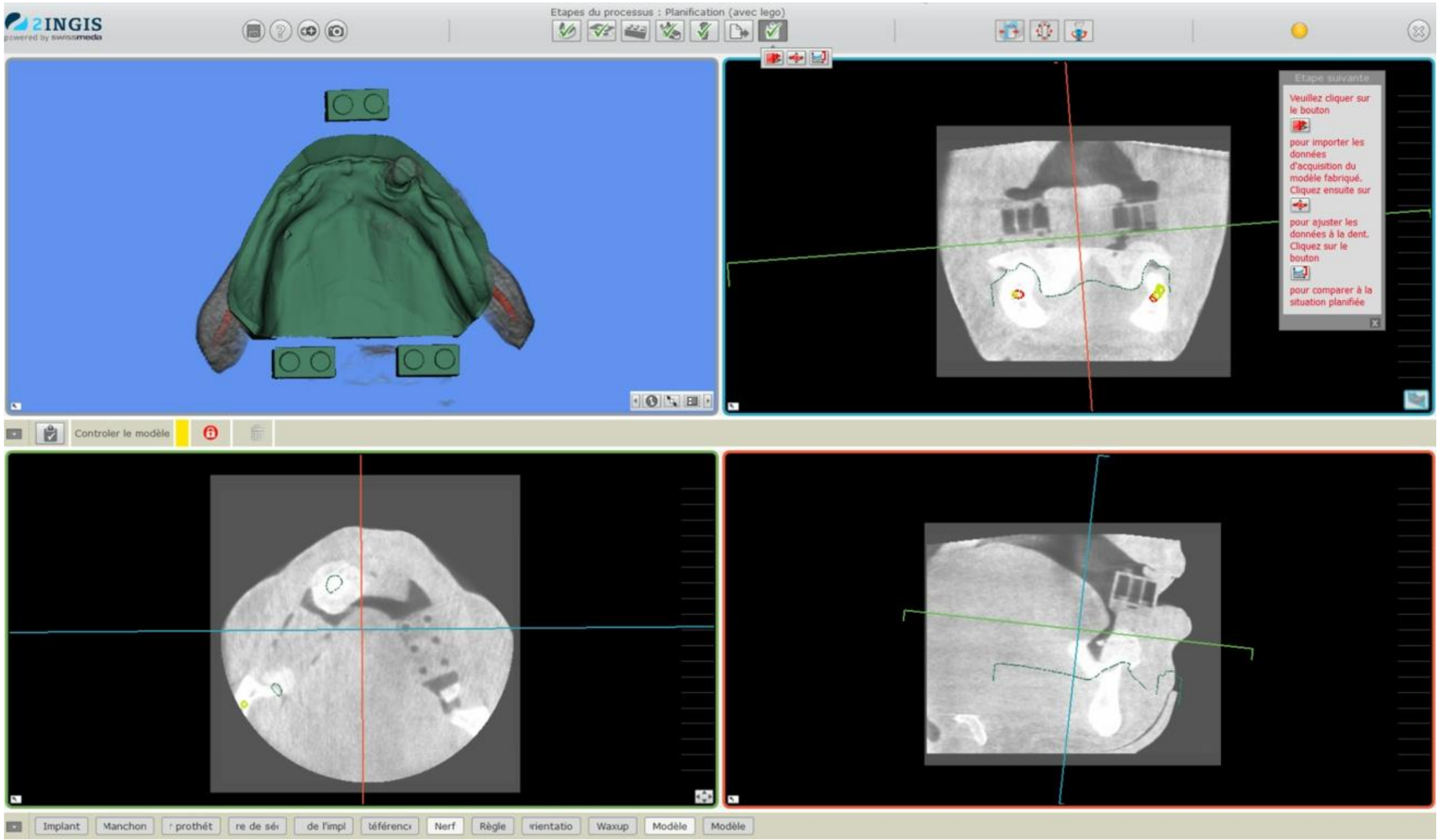
STL integrations



STL References

2INGIS
CONVENIENCE IN IMPLANTOLOGY

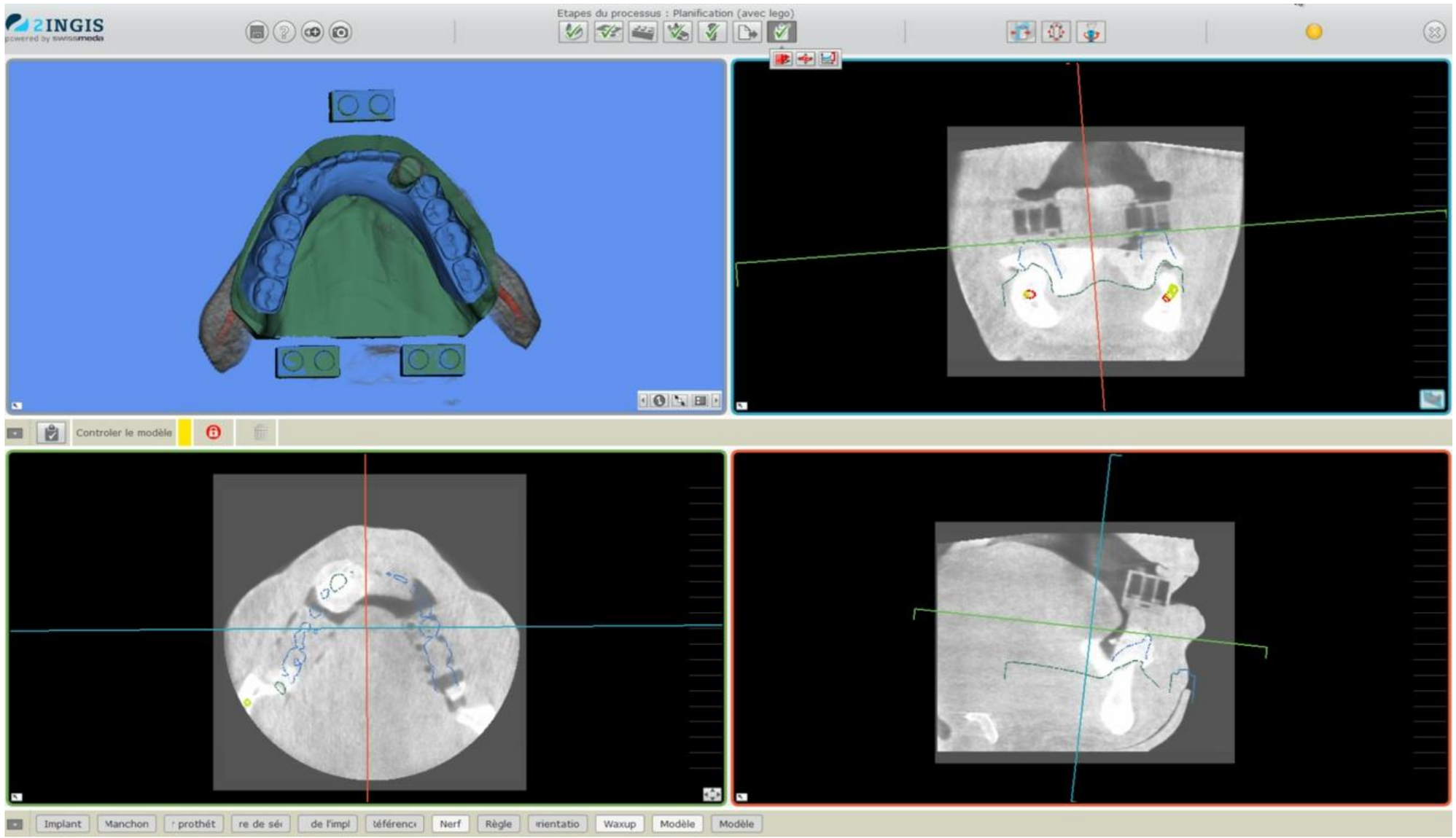
STL integrations



STL Model

2INGIS
CONVENIENCE IN IMPLANTOLOGY

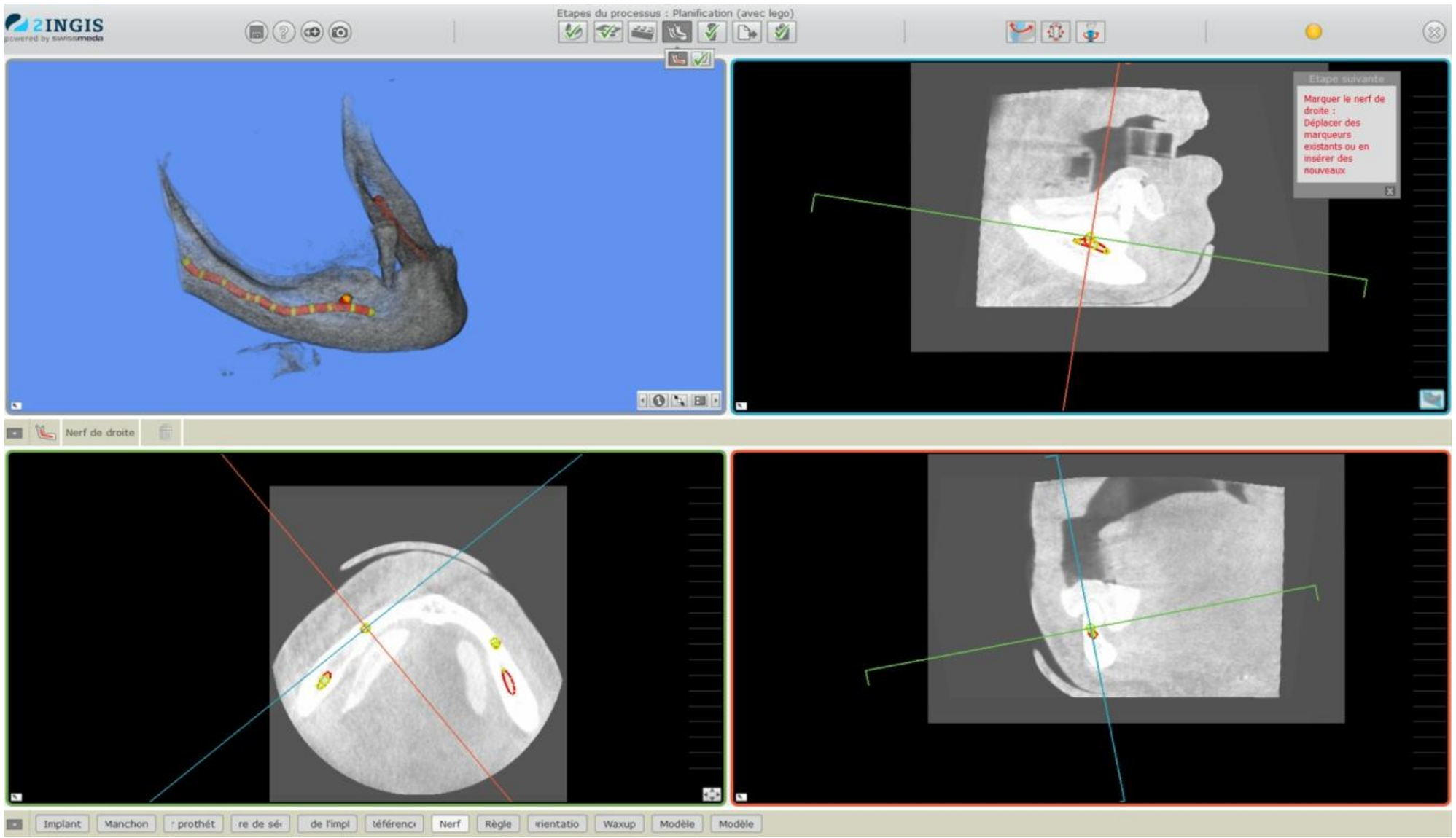
STL integrations



STL Set up

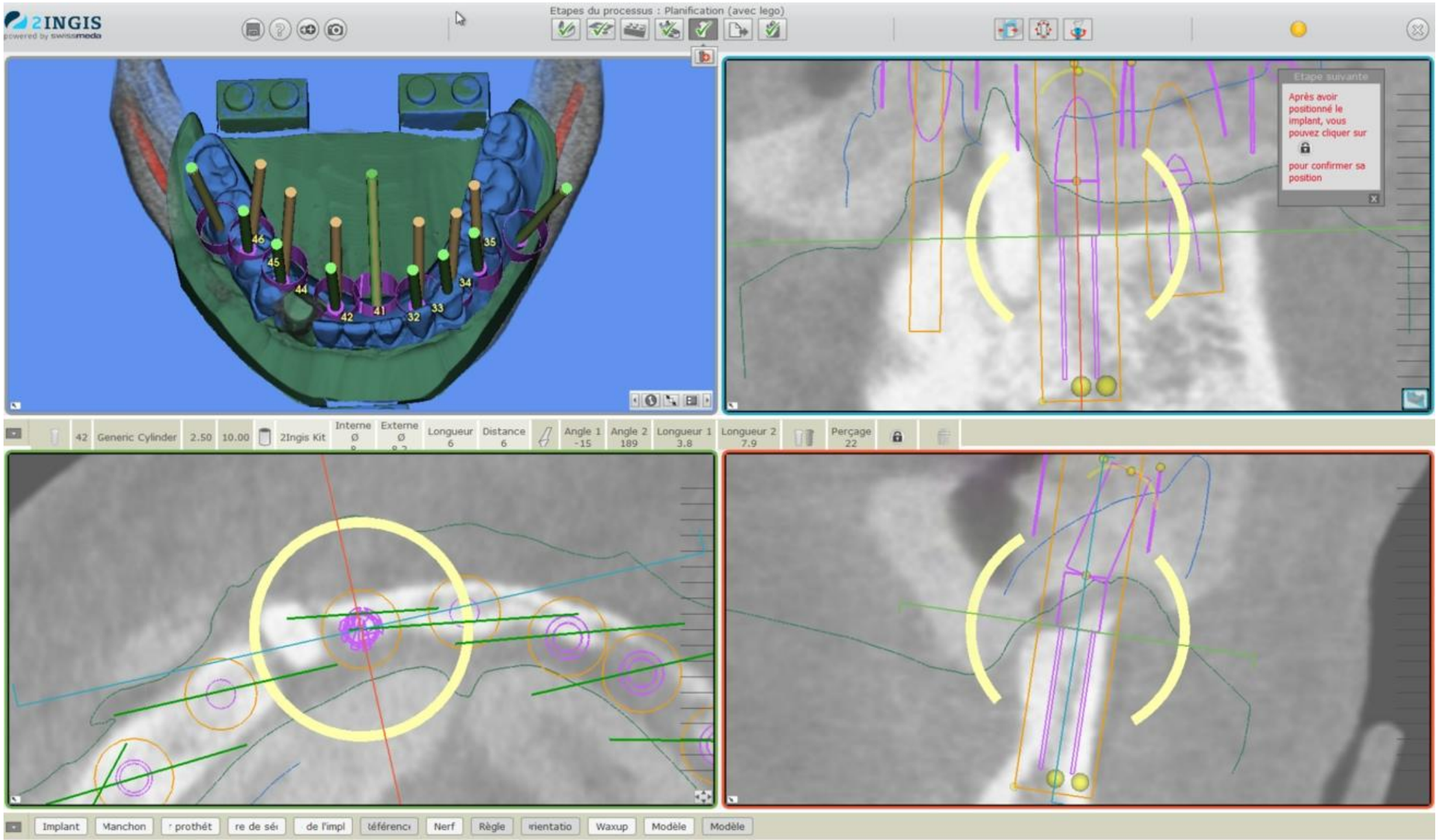
2INGIS
CONVENIENCE IN IMPLANTOLOGY

Nerve detection



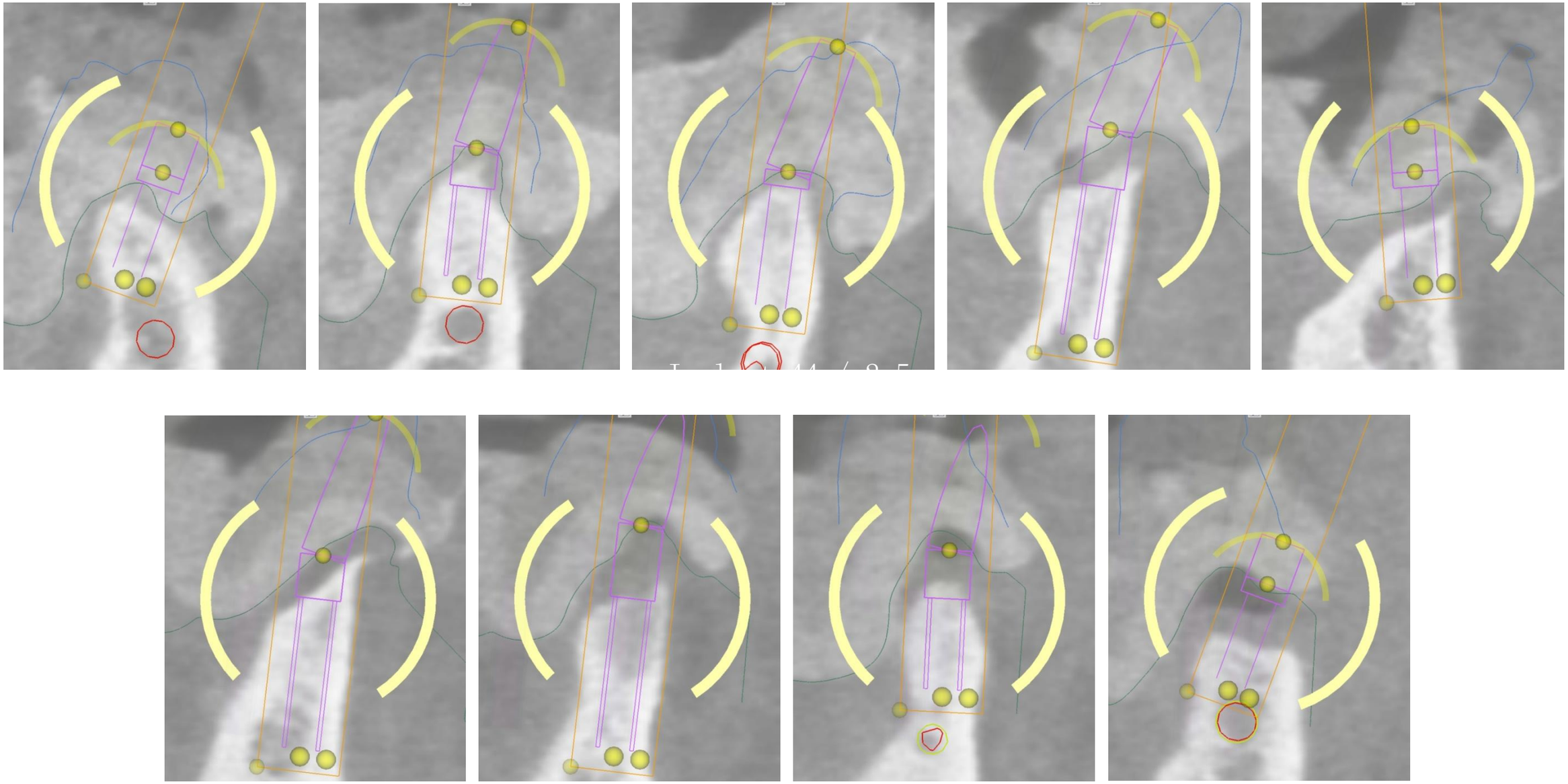
2INGIS
CONVENIENCE IN IMPLANTOLOGY

Dentium Slimline: Implant planning with 15° abutments



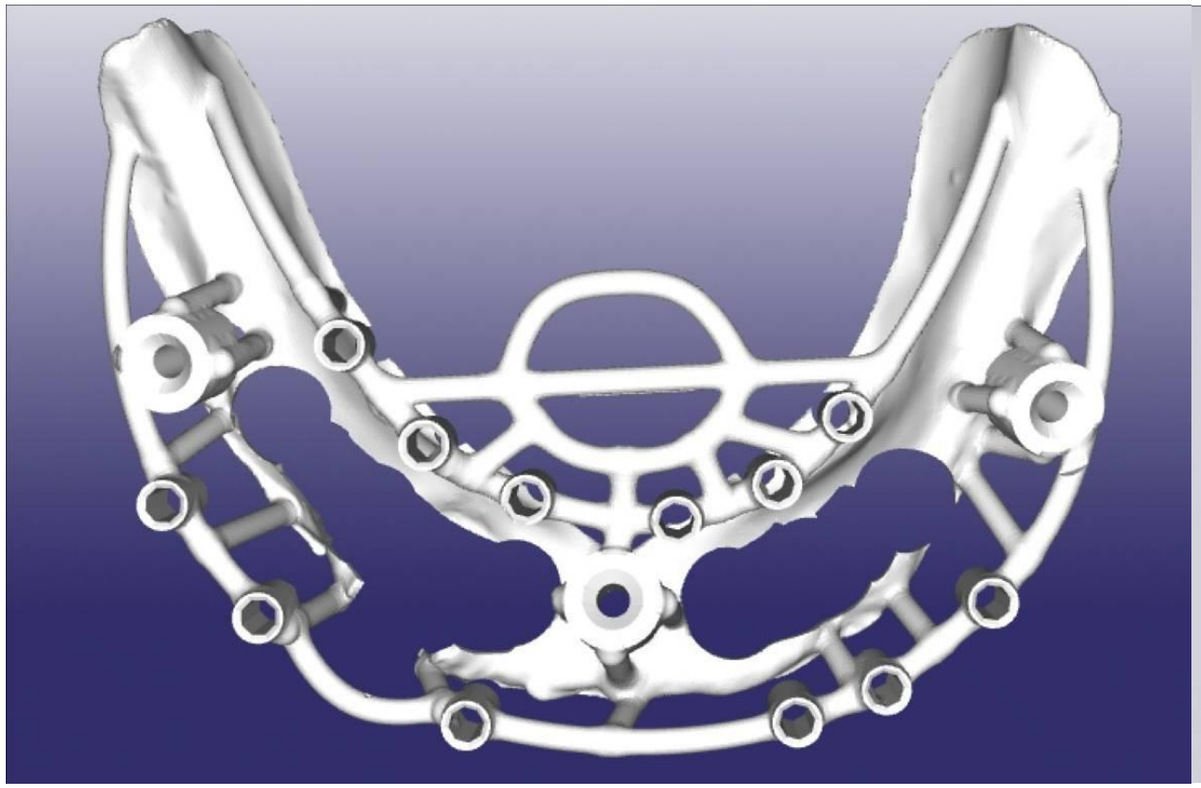
2INGIS
CONVENIENCE IN IMPLANTOLOGY

Dentium Slimline: Implant & fixations positions



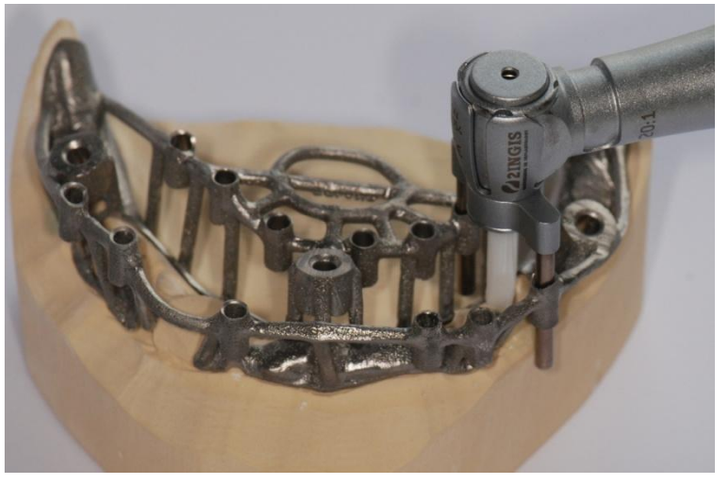
2INGIS
CONVENIENCE IN IMPLANTOLOGY

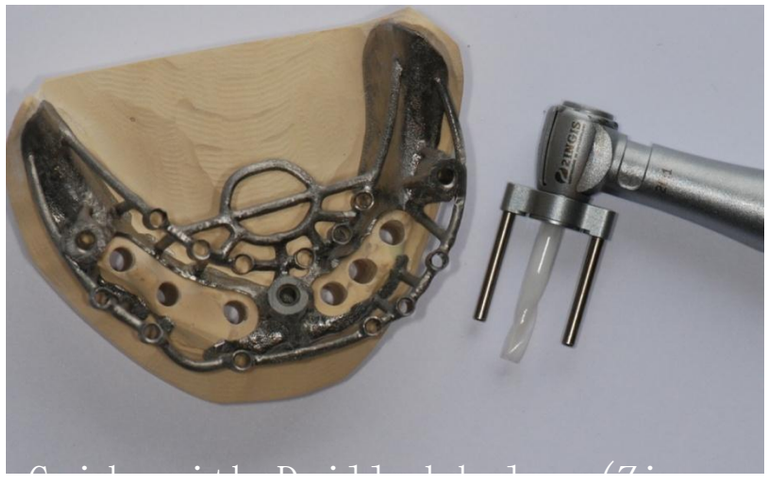
2INGIS Surgical Guide Design & 3D Printed metal Guide

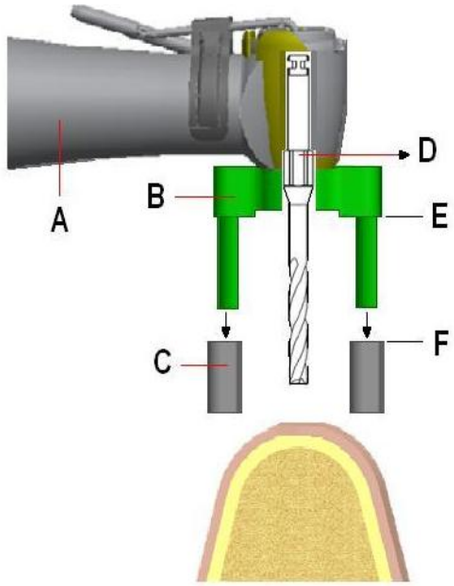


2INGIS
CONVENIENCE IN IMPLANTOLOGY

Dentium Slimline: Drilling for Analogue Placements

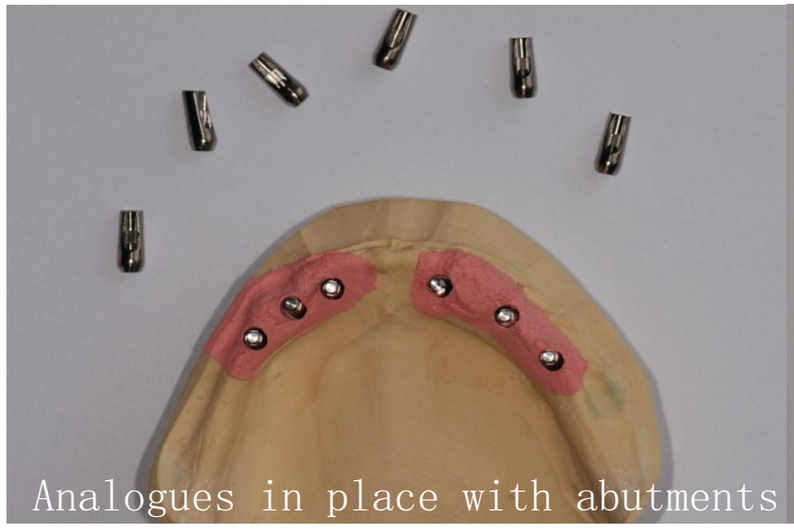


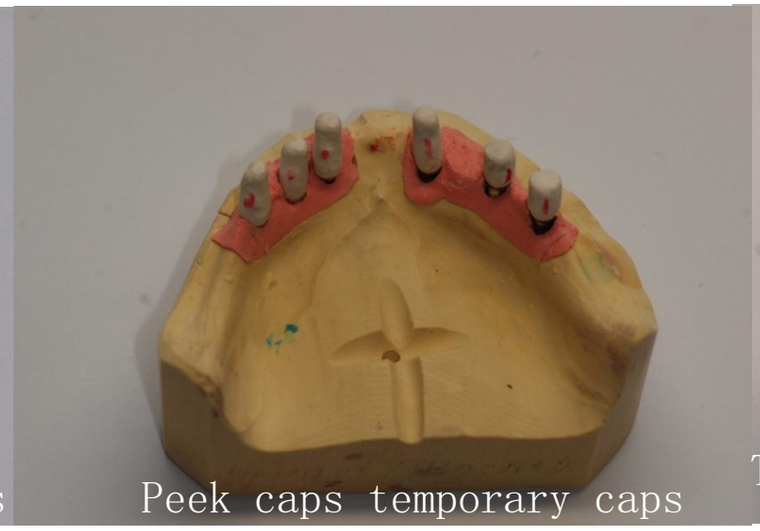




2INGIS
CONVENIENCE IN IMPLANTOLOGY

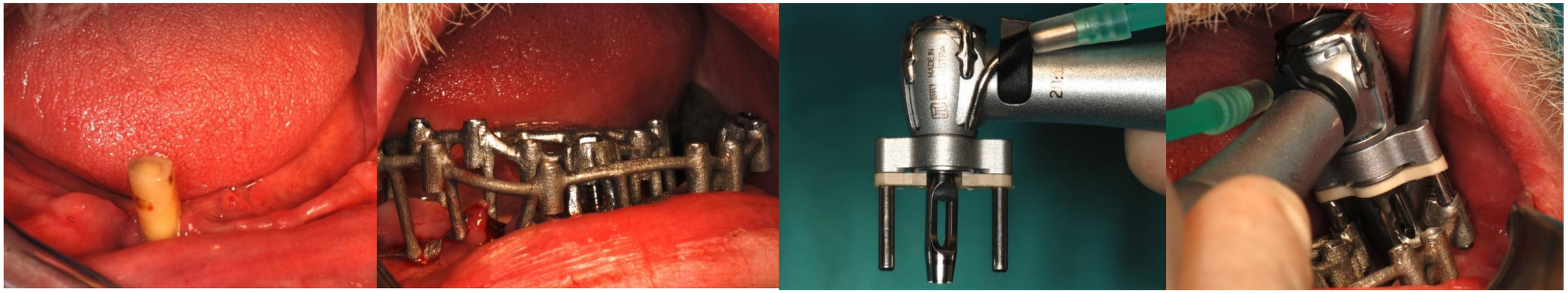
Dentium Slimline: Analogue PLacement & Prosthetic preparation


Analogues in place with abutments


Peek caps temporary caps

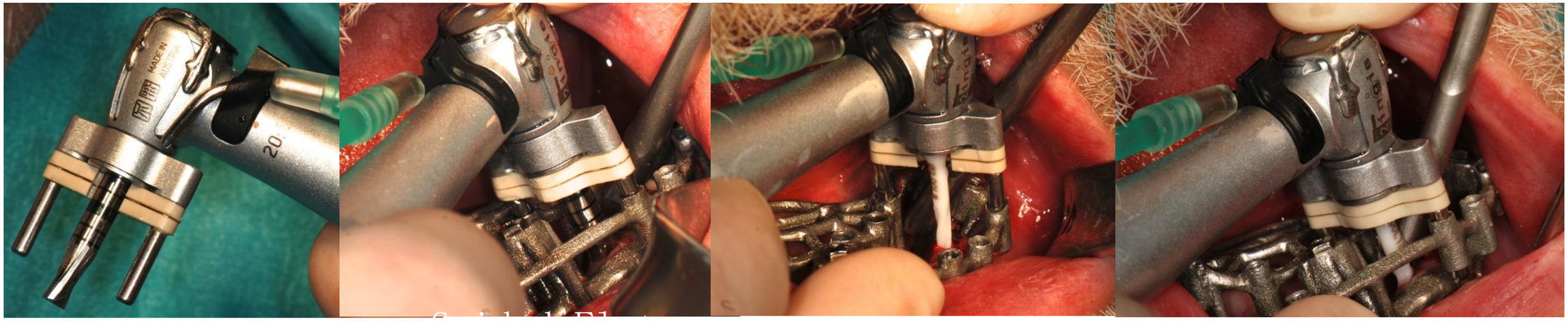

Temporary bridge with gingival key

Dentium Slimline: Tooth extraction and drill steps



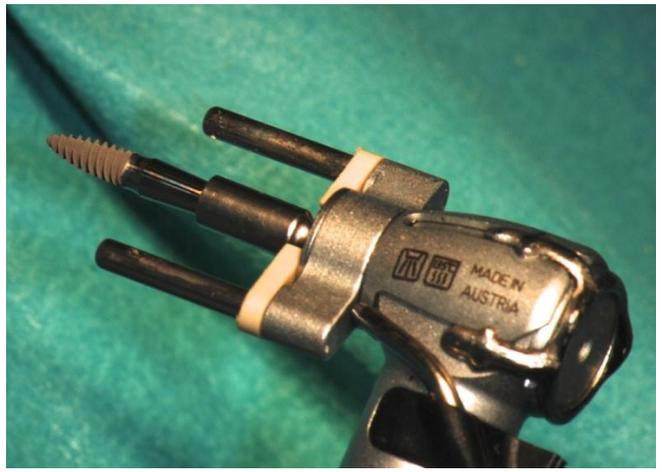
2INGIS
CONVENIENCE IN IMPLANTOLOGY

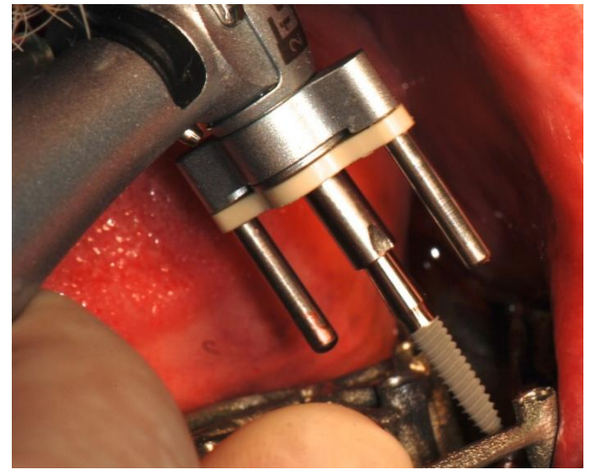
Dentium Slimline: Drill steps

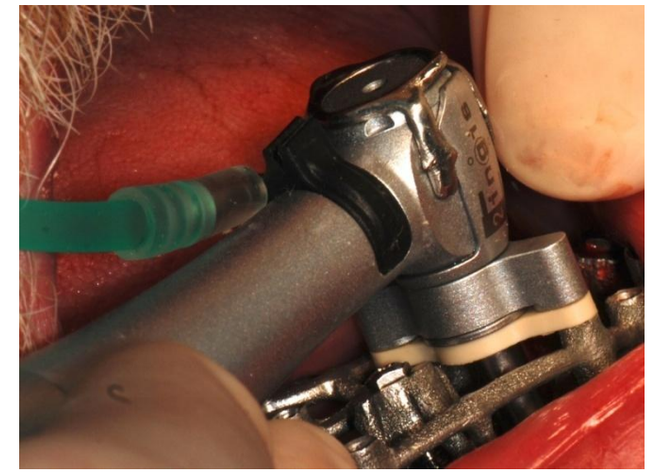


2INGIS
CONVENIENCE IN IMPLANTOLOGY

Dentium Slimline: Implant plcement

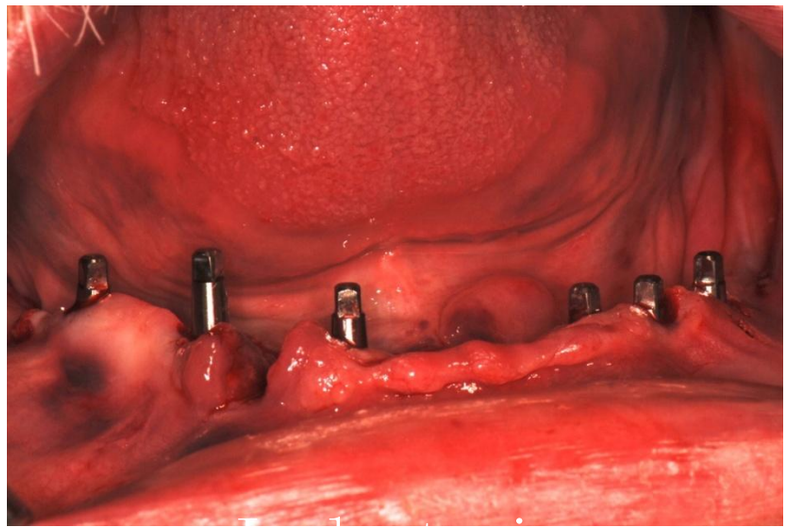






2INGIS
CONVENIENCE IN IMPLANTOLOGY

Dentium Slimline: Placed Implants & Prosthetics



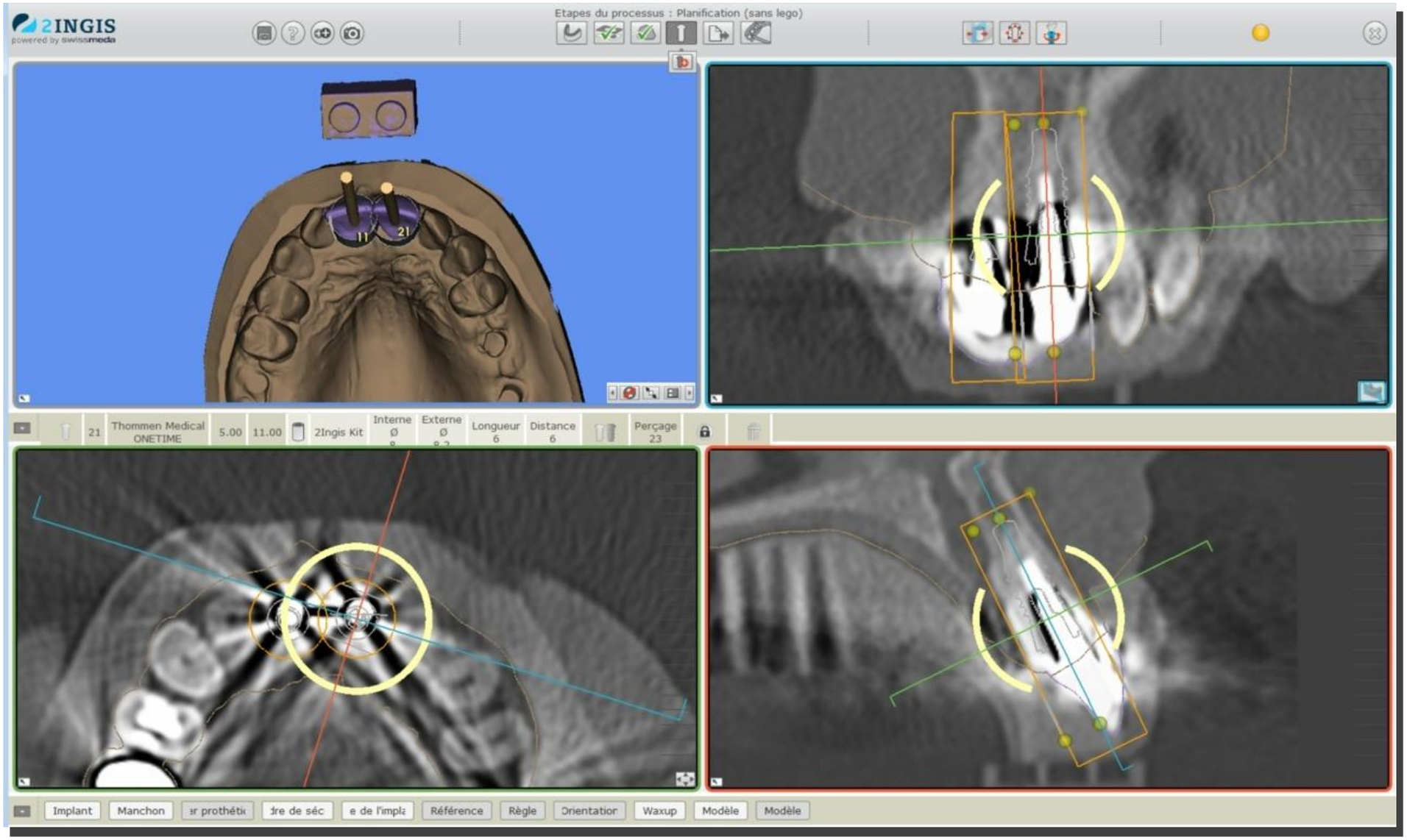



2INGIS
CONVENIENCE IN IMPLANTOLOGY

End result

Extraction placement of Zircon implants and immediate loading

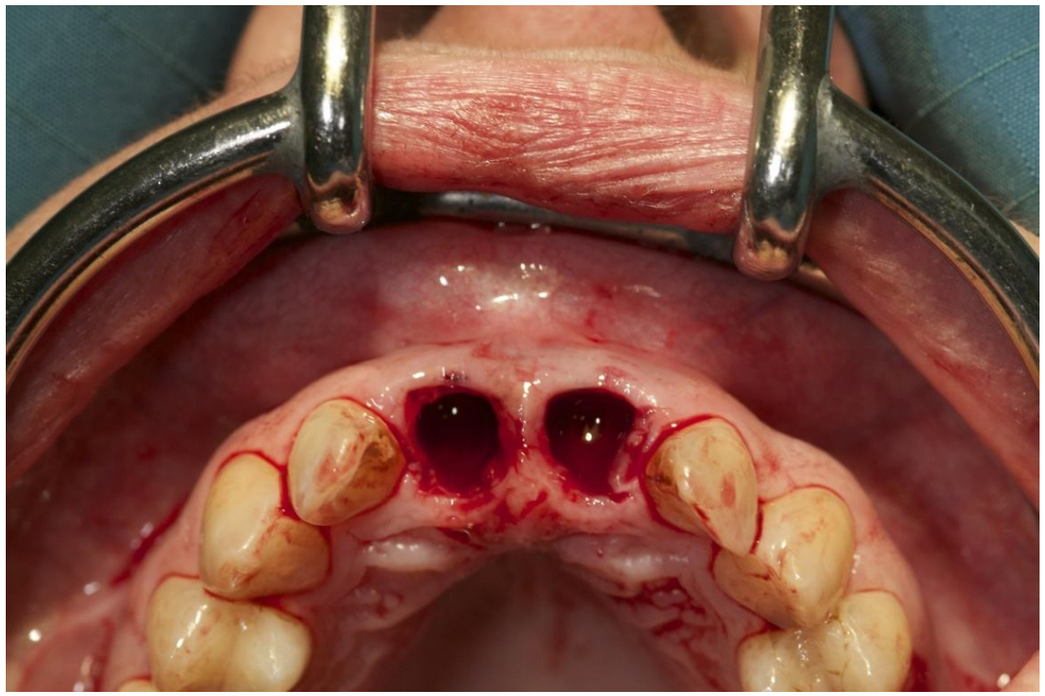
SDS 1.0 Implants:

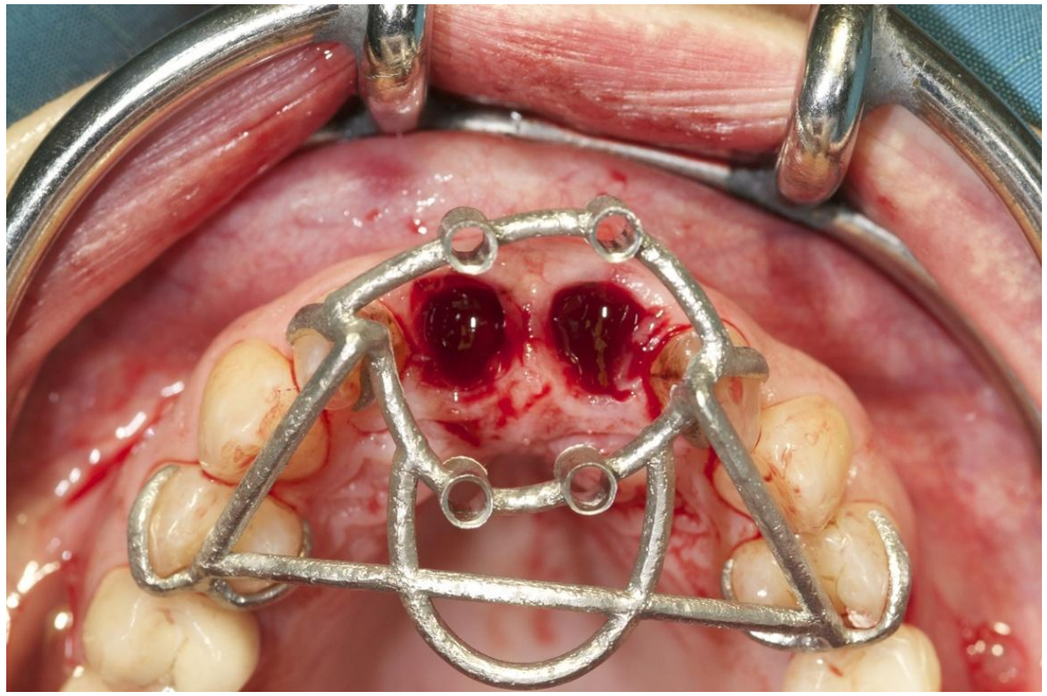


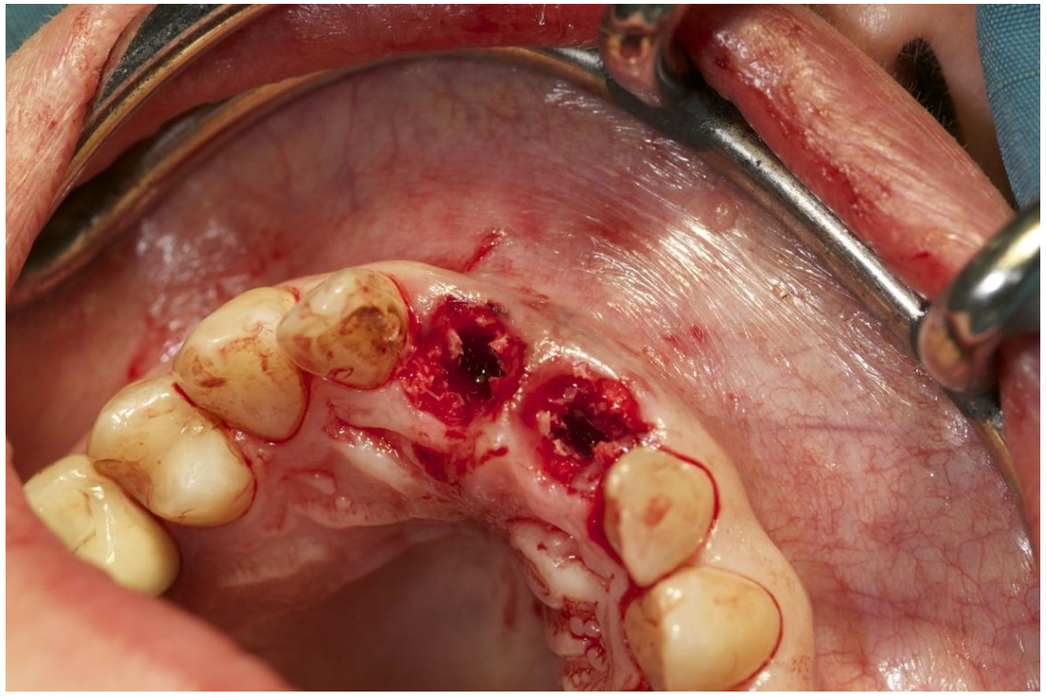
2INGIS
CONVENIENCE IN IMPLANTOLOGY

SDS 1.0 Implants:

Extraction placement of Zircon implants and immediate loading



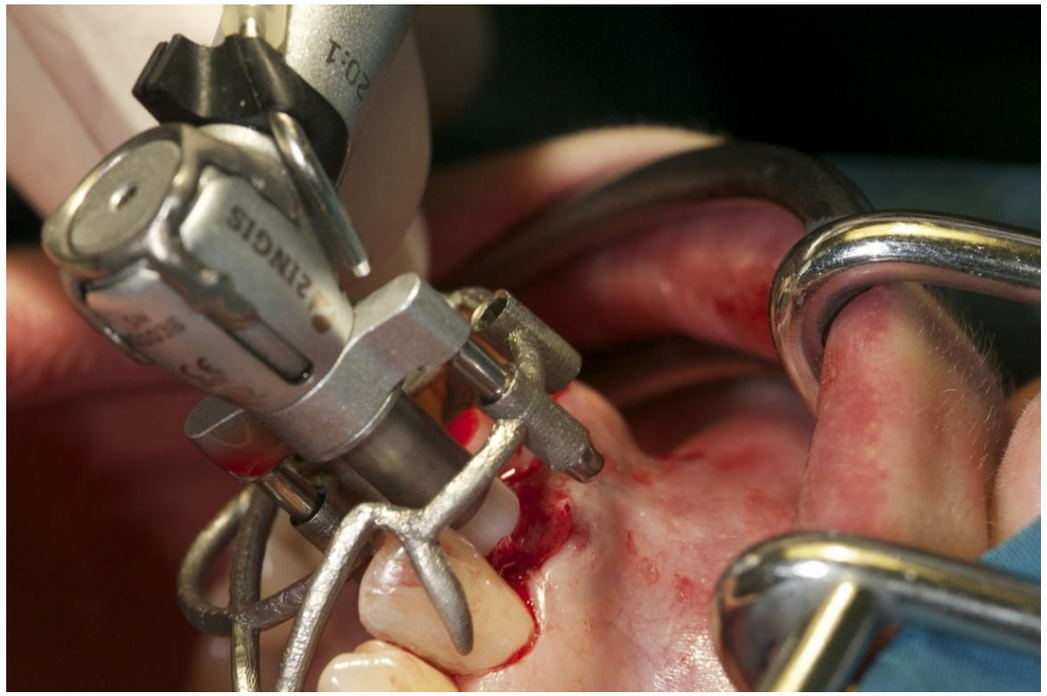


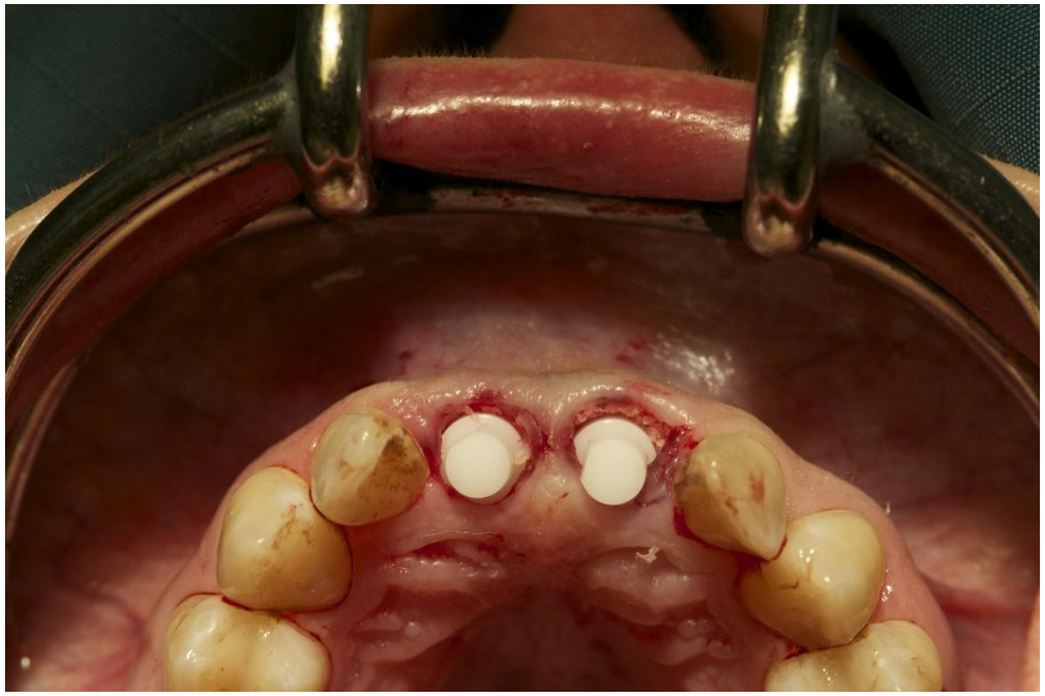


2INGIS
CONVENIENCE IN IMPLANTOLOGY

SDS 1.0 Implants:

Extraction placement of Zircon implants and immediate loading





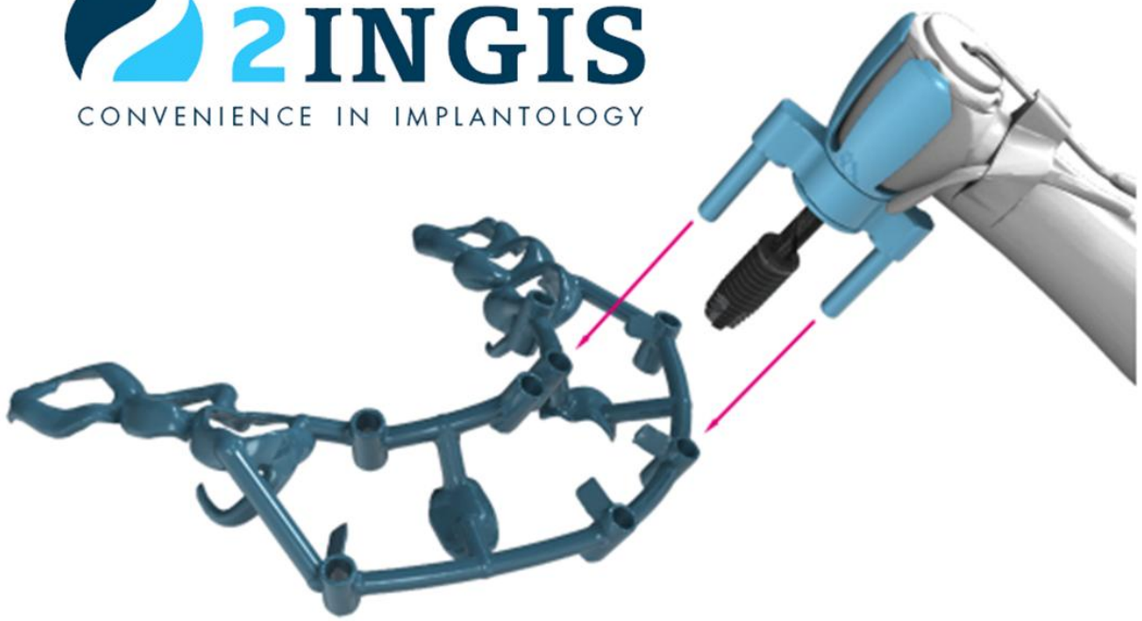
2INGIS
CONVENIENCE IN IMPLANTOLOGY

Extraction placement of Zircon implants and immediate loading

SDS 1.0 Implants:

2INGIS
CONVENIENCE IN IMPLANTOLOGY

Thanks for your attention



Sigel Dental GmbH
Schillerstr. 10
77933 Lahr
info@sigeldental.de
www.sigeldental.de
www.2ingis.eu

SIGEL DENTAL
IHRE EXPERTEN FÜR ZAHNERSATZ

2INGIS
CONVENIENCE IN IMPLANTOLOGY