

**CLINICAL CASE**



# **Clinical applications of TiUltra™ implants and Xeal™ abutments in full-arch and individual restorations**

**Dr. Nader Salib**





**Nader Salib**

**Patient**

73 year old, male

**Clinical situation**

Former plastic surgeon and cancer survivor. Currently retired. Previous fixed bridge work failing. Pt. is very esthetically conscious and desired a fixed, immediate, graftless solution for his maxilla and replacement of 3 missing mandibular teeth

**Surgical solution**

Remaining teeth were extracted and infection cleared. 6 maxillary implants (NobelActive® CC TiUltra™) and 3 mandibular implants (NobelParallel™ CC TiUltra™) were placed. A temporary fixed prosthesis was delivered the same day.

**Restorative solution**

A fixed ceramic prosthesis was made for the maxillary arch, seated on Multi-unit Abutments Xeal™, and screw retained abutment/crowns were fabricated for the mandibular teeth

**Surgery date**

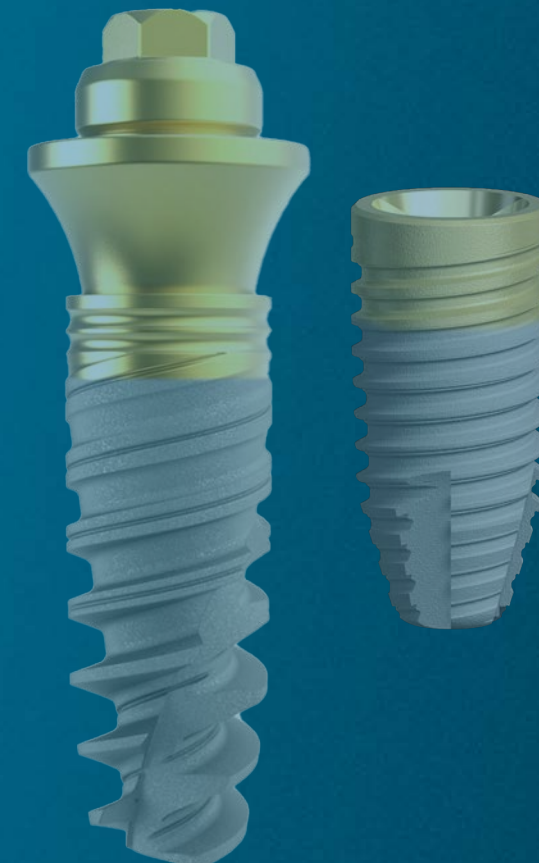
Dec. 1, 2020

**Total treatment time**

4.5 months

**Tooth position**

Full maxillary arch; #19, #29, #30



**Initial clinical situation**

Treatment planning

Surgical procedure

Surgical outcome

Temporary prosthesis

Final prosthesis

**Maxillary arch: Multiple decayed, non-restorable teeth. Multiple abscesses in bone.**

**Mandibular arch: Multiple missing teeth**



CBCT: Pano view illustrating clinical situation



Photo showing multiple decayed teeth

**Initial clinical situation**

**Treatment planning**

**Surgical procedure**

**Surgical outcome**

**Temporary prosthesis**

**Final prosthesis**

**Maxillary arch:**



Photo courtesy of Nader Salib

**CBCT: Pano view maxillary arch**



Photo courtesy of Nader Salib



Photo courtesy of Nader Salib

**Intraoral photos demonstrating oral health**

Initial clinical situation

Treatment planning

Surgical procedure

Surgical outcome

Temporary prosthesis

Final prosthesis

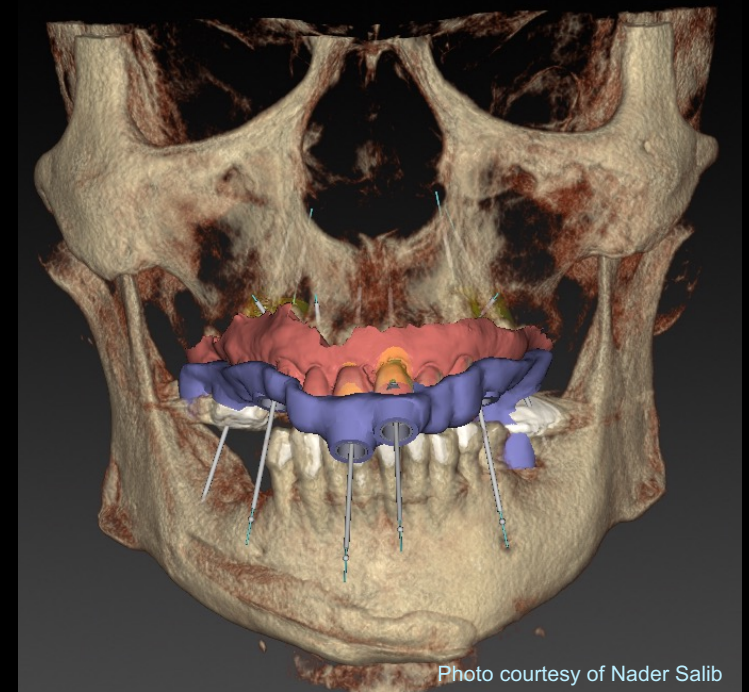
## Digital treatment planning with DTX Studio™ Implant software



CBCT



CBCT + Pt's intraoral scan



Final plan with implants and template shown

Initial clinical situation

Treatment planning

Surgical procedure

Surgical outcome

Temporary prosthesis

Final prosthesis

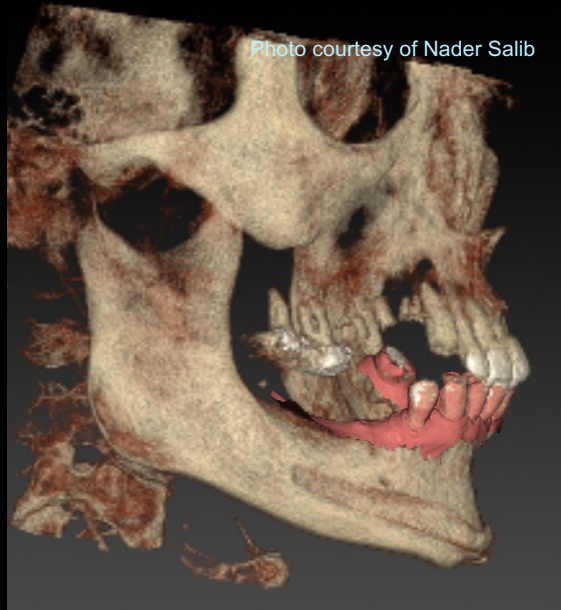
## Digital treatment planning with DTX Studio™ Implant software

Photo courtesy of Nader Salib



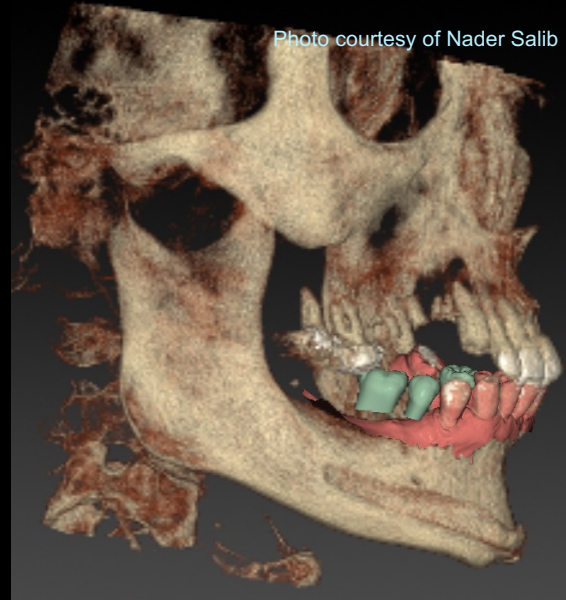
CBCT

Photo courtesy of Nader Salib



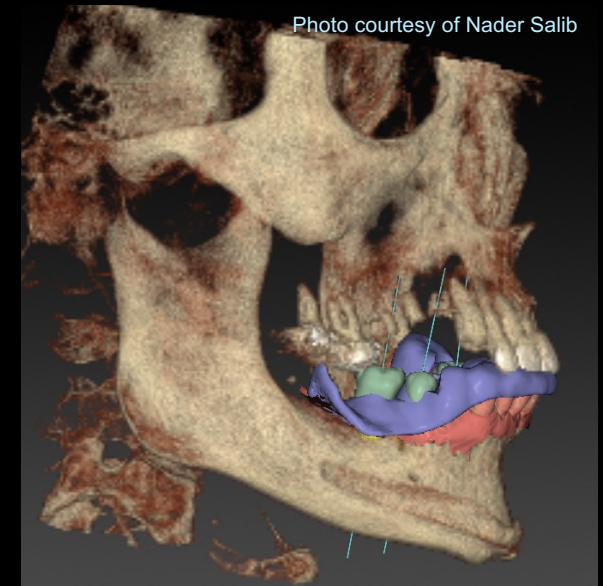
CBCT + intraoral scan

Photo courtesy of Nader Salib



CBCT + intraoral scan + teeth mockup

Photo courtesy of Nader Salib



Final plan with implants and template shown

Initial clinical  
situation

**Treatment  
planning**

Surgical  
procedure

Surgical  
outcome

Temporary  
prosthesis

Final  
prosthesis

Mandibular arch: 3D view of proposed implant placement with DTX Studio™ Implant software

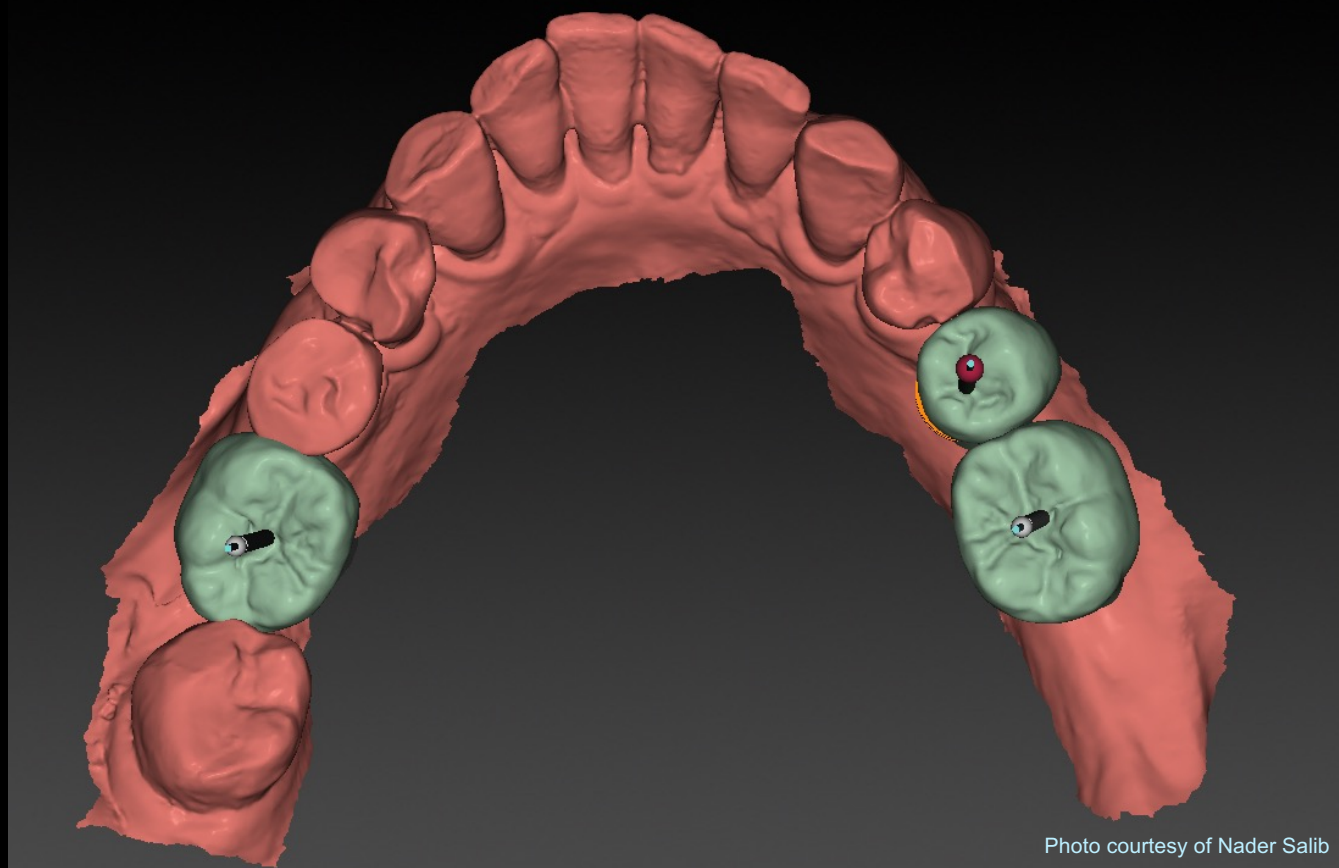


Photo courtesy of Nader Salib

3D view: All implants planned for screw-retained restorations  
with access through central fossa

Initial clinical situation

Treatment planning

Surgical procedure

Surgical outcome

Temporary prosthesis

Final prosthesis

Mandibular arch: sagittal view of proposed implant placement (NobelParallel™ CC TiUltra™)

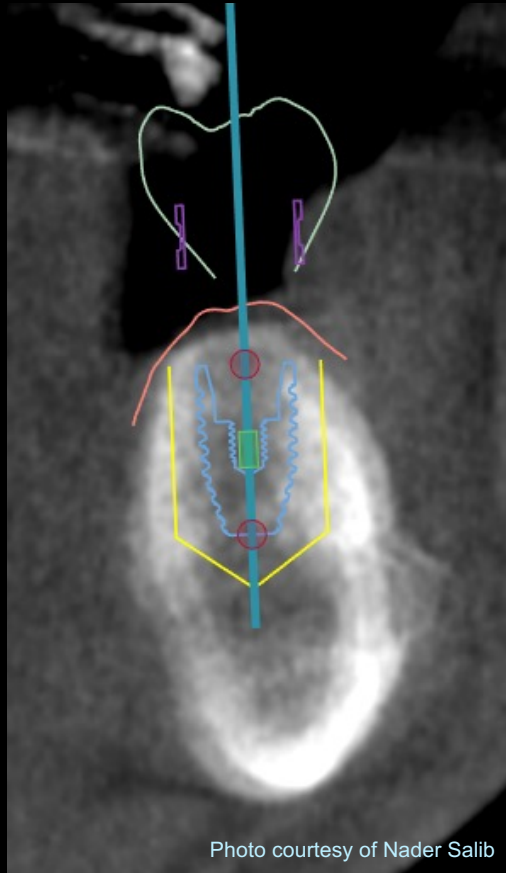


Photo courtesy of Nader Salib

#30

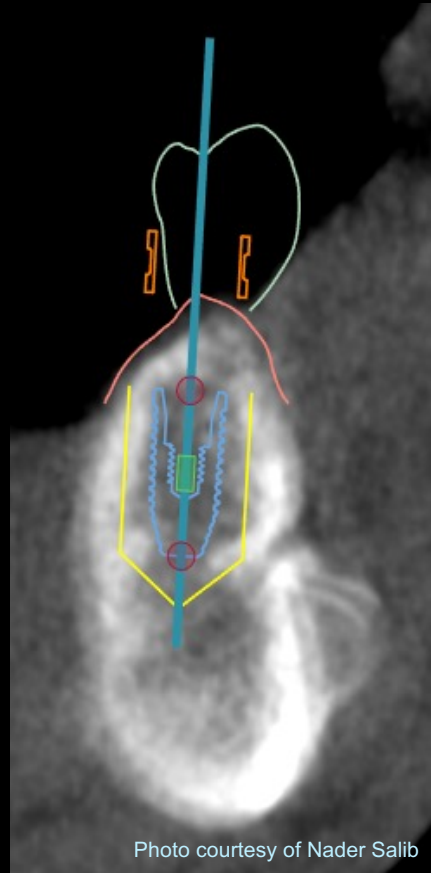


Photo courtesy of Nader Salib

#29

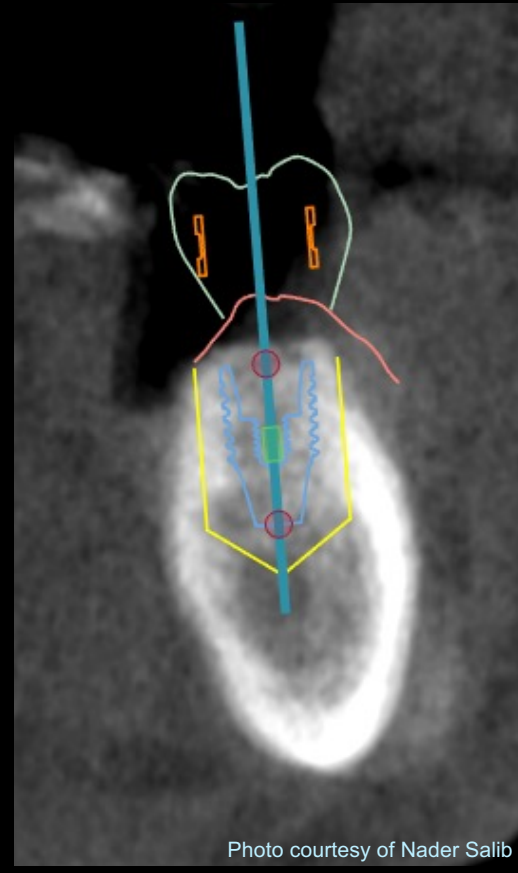


Photo courtesy of Nader Salib

#19



Initial clinical situation

**Treatment planning**

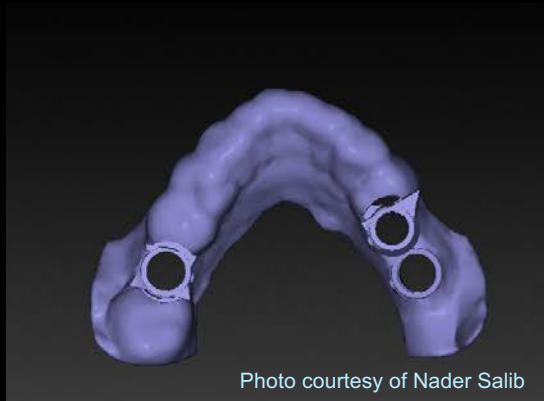
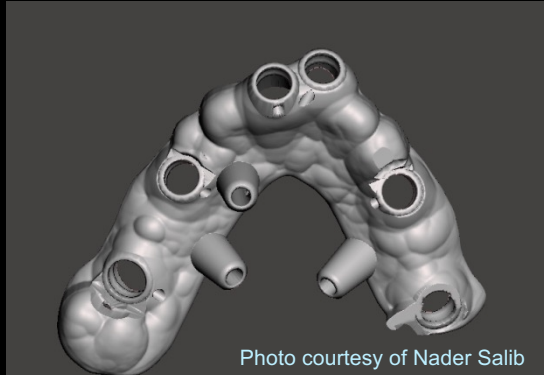
Surgical procedure

Surgical outcome

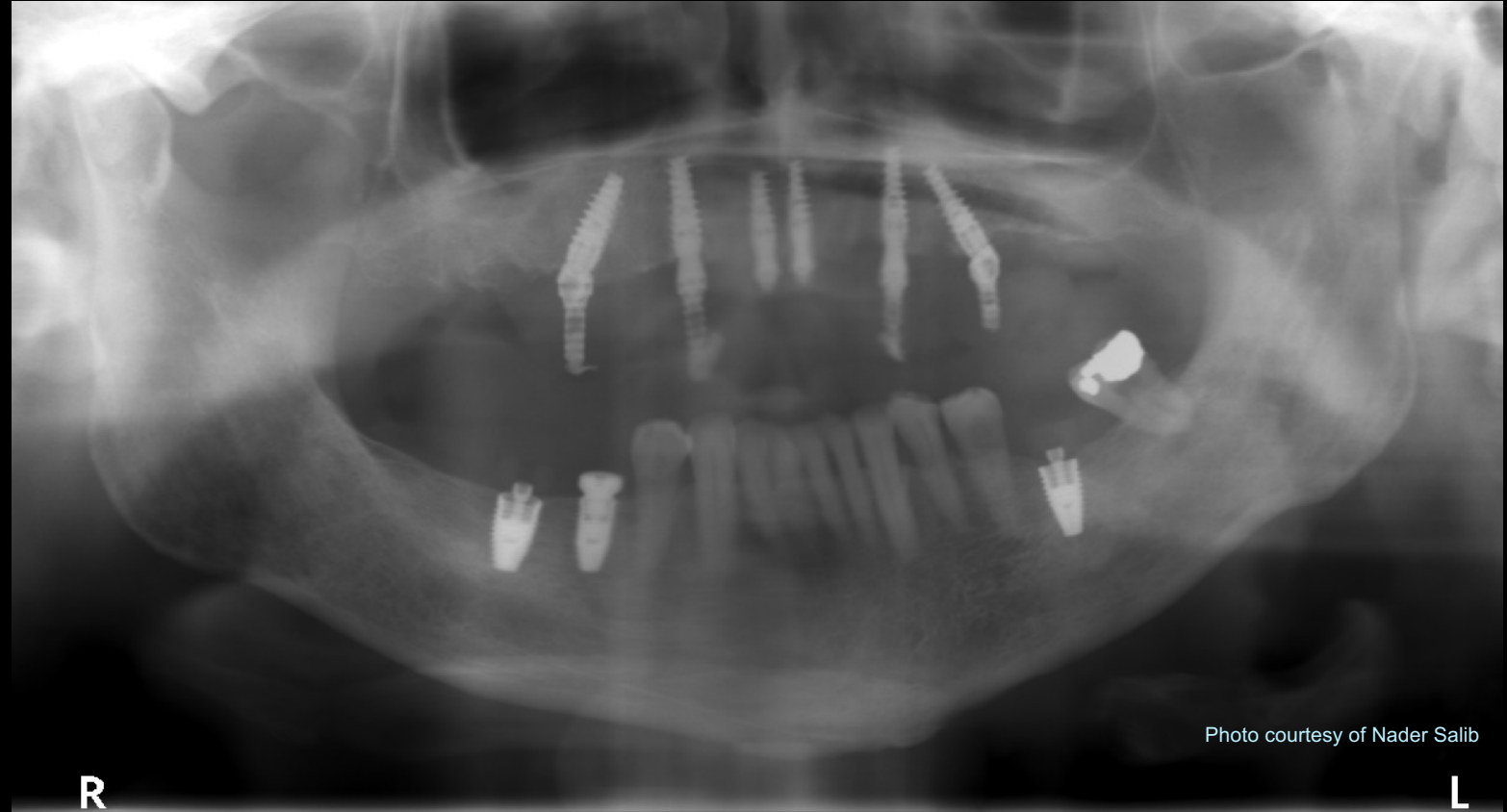
Temporary prosthesis

Final prosthesis

## Planning to execution



Maxillary and mandibular templates shown respectively.



PO Pano X-ray demonstrating implant placement

Initial clinical  
situation

Treatment  
planning

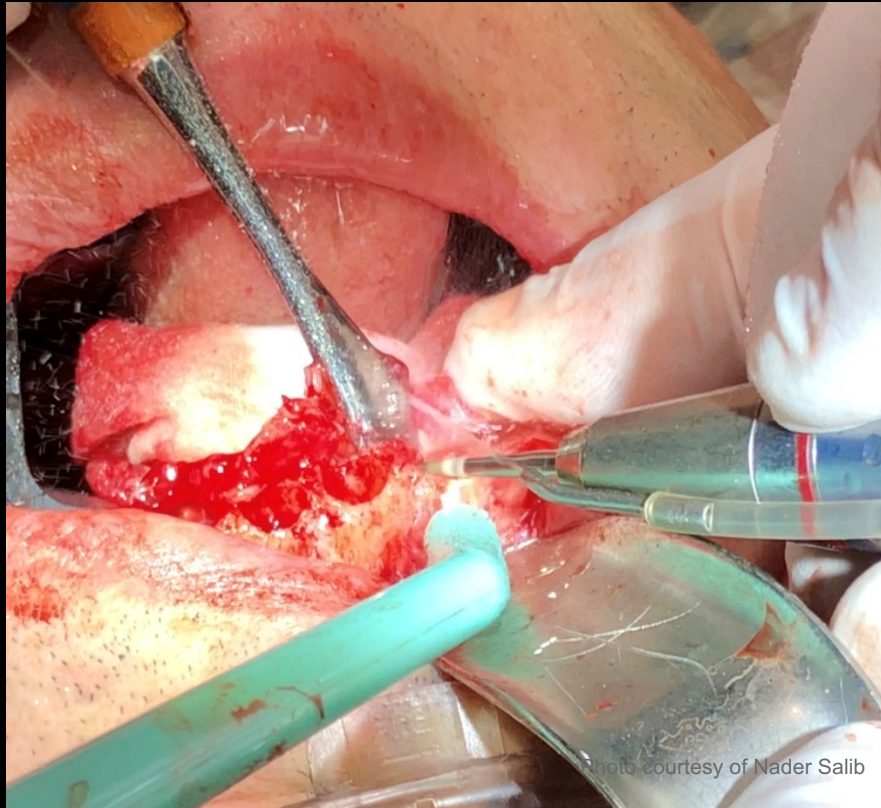
**Surgical  
procedure**

Surgical  
outcome

Temporary  
prosthesis

Final  
prosthesis

## Maxillary ridge reduction



Initial clinical situation

Treatment planning

**Surgical procedure**

Surgical outcome

Temporary prosthesis

Final prosthesis

## Maxillary implant placement



Initial clinical  
situation

Treatment  
planning

Surgical  
procedure

## Mandibular implant placement

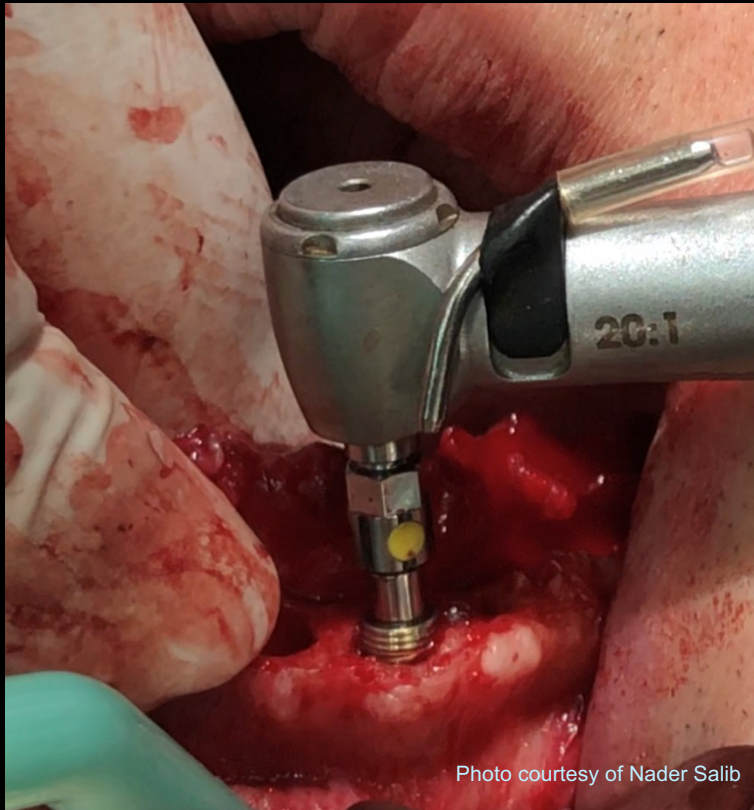


Photo courtesy of Nader Salib

Surgical placement of NobelParallel™ CC TiUltra™ implant



Video courtesy of Nader Salib

Initial clinical situation

Treatment planning

Surgical procedure

**Surgical outcome**

Temporary prosthesis

Final prosthesis

## Mandibular implant evaluation



Photo courtesy of Nader Salib

Intra-op photo of NobelParallel™ CC TiUltra™ implant placement

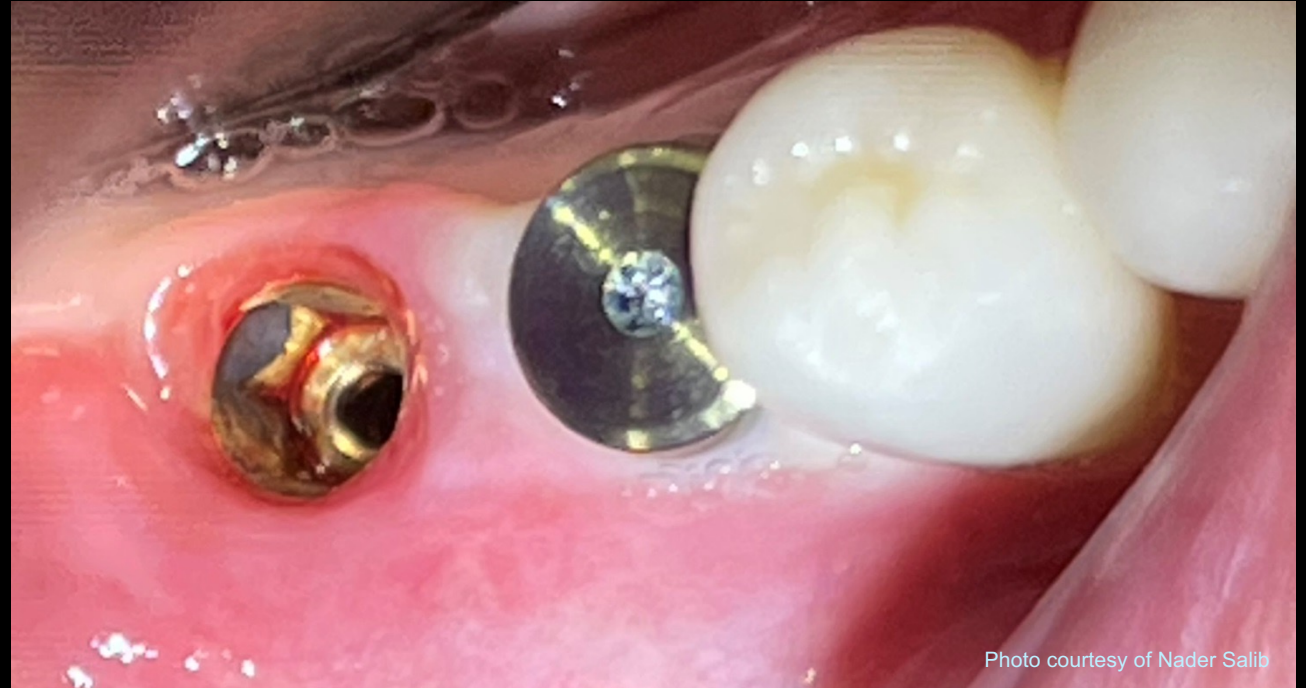


Photo courtesy of Nader Salib

4-month PO view of tissue healing

Initial clinical situation

Treatment planning

Surgical procedure

**Surgical outcome**

Temporary prosthesis

Final prosthesis

### 4-month PO check – maxillary treatment

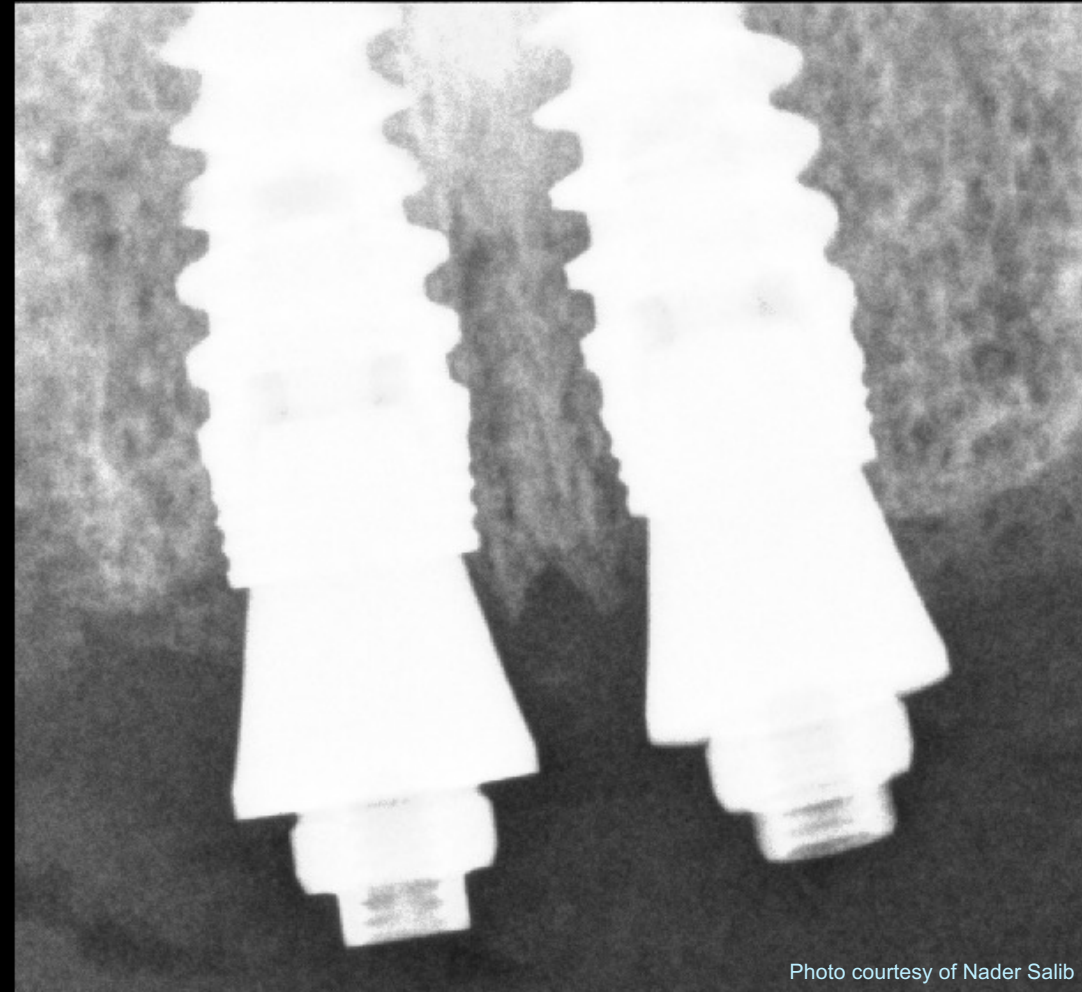
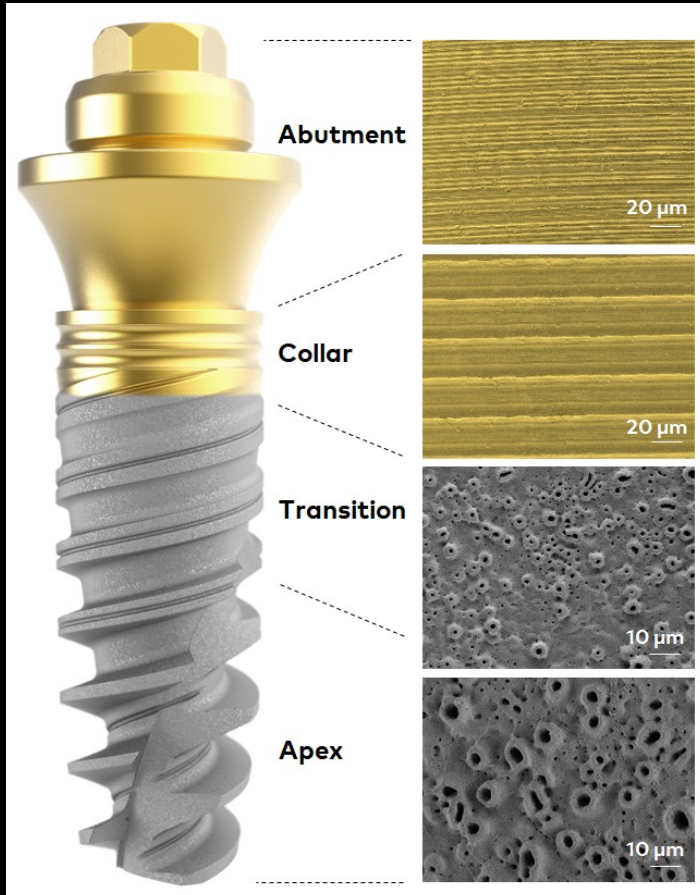


Photo courtesy of Nader Salib

Initial clinical situation

Treatment planning

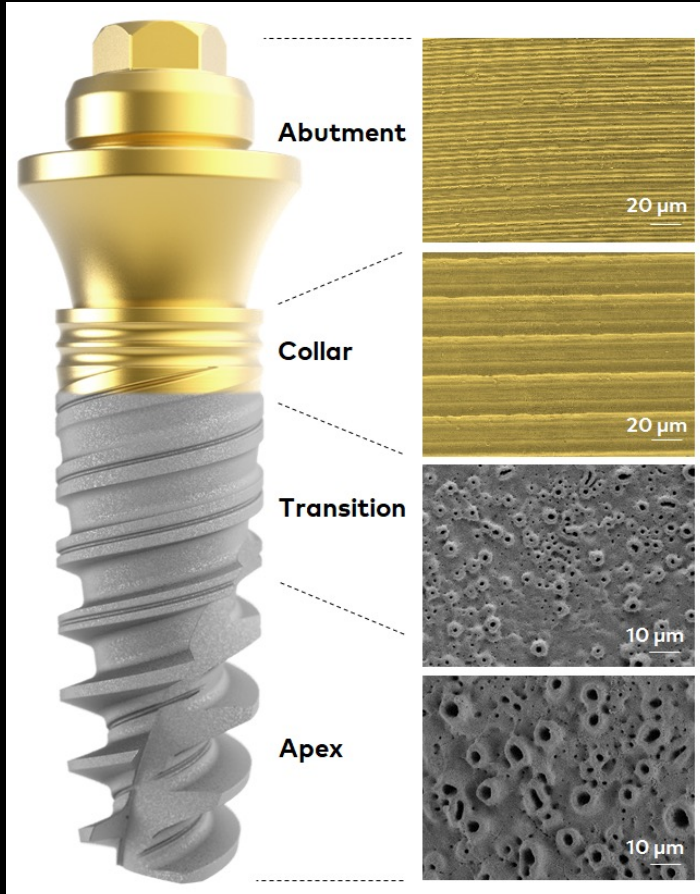
Surgical procedure

**Surgical outcome**

Temporary prosthesis

Final prosthesis

### 4-month PO check – maxillary treatment



Intra-op: Zeal™ Multi-unit Abutment placement



4-month PO evaluation & integration check demonstrating gingival health around Multi-unit Abutments with Zeal™ surface

Initial clinical situation

Treatment planning

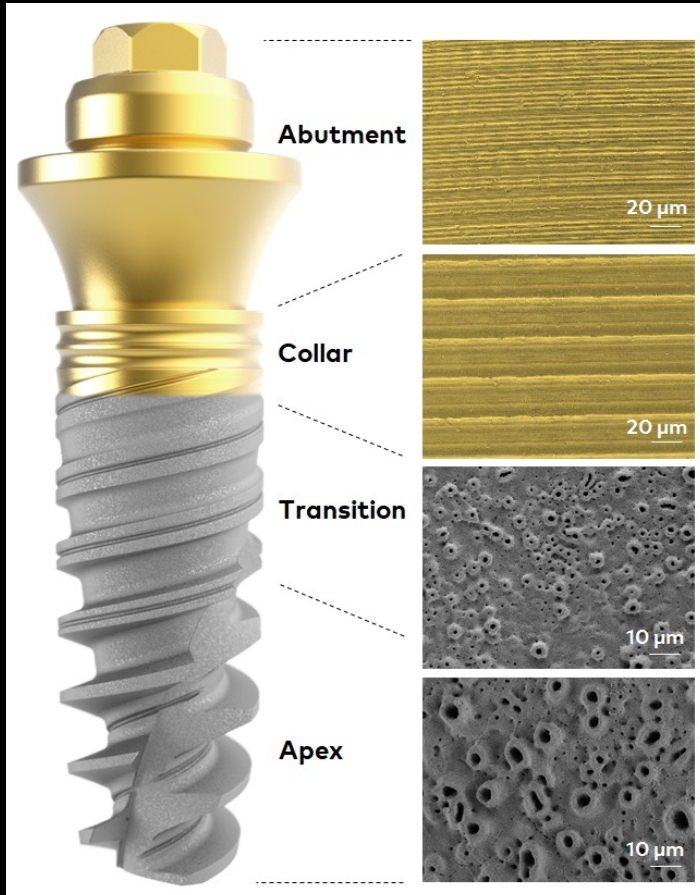
Surgical procedure

**Surgical outcome**

Temporary prosthesis

Final prosthesis

### 4-month PO check – maxillary treatment



Before: Pre-op photo demonstrating gingival health



After: 4-month PO evaluation & integration check demonstrating healthy well healed soft tissue around the Multi-unit Abutments with Xeal™ surface



Initial clinical situation

Treatment planning

Surgical procedure

Surgical outcome

**Temporary prosthesis**

Final prosthesis

Temporary restorative work performed in collaboration with Dr. Dave Eggleston, prosthodontist



Photo courtesy of Nader Salib

Before treatment



Photo courtesy of Nader Salib

After treatment

Initial clinical situation

Treatment planning

Surgical procedure

Surgical outcome

Temporary prosthesis

**Final prosthesis**

Final restorative work performed in collaboration with Dr. Dave Eggleston, prosthodontist



Photo courtesy of Dave Eggleston

Final prosthesis in patient's mouth – the new NobelProcera® Zirconia implant Bridge



Photo courtesy of Dave Eggleston

Case courtesy of Dr. Nader Salib



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