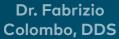
GBR using a Ti-reinforced non resorbable membrane and simoultaneous sinus lift

Dr. Fabrizio Colombo, DDS







#### **Patient**

62, F, No systemic diseases, no oral pathologies or dental problems other than the existing one.

#### Clinical situation

Absence of the dental elements from 1.3 to 1.7, horizontal atrophy of the I quadrant and vertical atrophy in the region of 1.4, 1.5, 1.6 and 1.7.

#### **Surgical solution**

GBR using creos™ syntoprotect Ti-reinforced PTFE membrane and a mixture of creos xenogain<sup>™</sup> and autologous bone to improve the width of the alveolar ridge.

Sinus lift through lateral approach to reach the amount of bone useful to place implant in the posterior area.

Placement of 4 NobelReplace CC implants after 8 months of healing.

Free gingival graft to get keratinized tissues around the implants.

#### Restorative solution

Provisional: [Acrylic (PMMA) screw retained temporary crowns.

Final: Metal-ceramic crowns.

#### Surgery date

23th October 2018 (GBR/ Sinus Lift) 1st July 2019 (Implants placement) 17th October 2019 (Soft tissues management) 18th November 2020 (Final prosthesis)

Total treatment time 25 Months

**Tooth position** 13-14-15-16



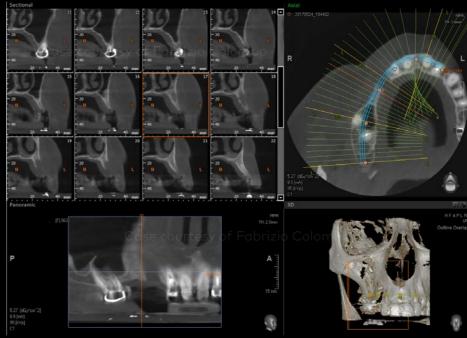


Extra-oral view: No gummy smile; slight asymmetry during spontaneous smile









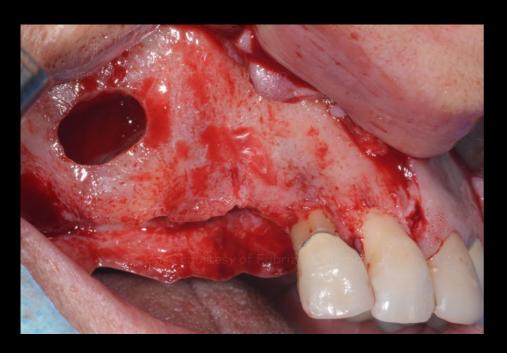
Surgical procedure

Restorative procedure

**Outcome** 









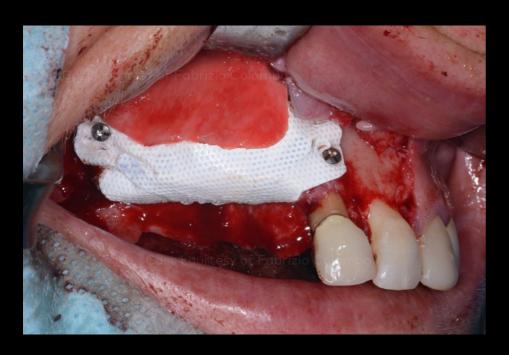
already fixed on the palatal wall and grafting material in situ (mix of 50% autologous bone and 50% creos™ xenogain). At the top left of the picture the collagen membrane (creos™ xenoprotect) is placed to protect the Schneiderian membrane.

Ti-reinforced non resorbable PTFE membrane (creos™ syntoprotect)

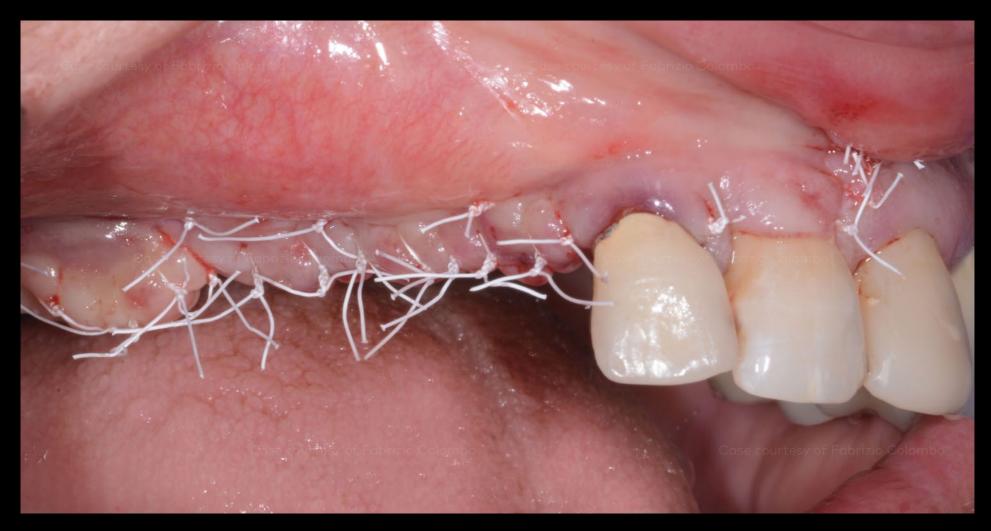
planning

Surgical procedure Restorative procedure

**Outcome** 





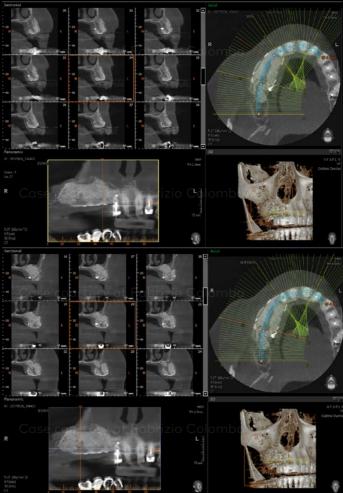


Detail of the wound closed by primary intention

Surgical procedure

Restorative procedure





CBCT after 8 months healing

Surgical procedure

Restorative procedure

Outcome

#### Implant placement





Surgical procedure

Restorative procedure

Outcome

# Implant placement





Surgical procedure

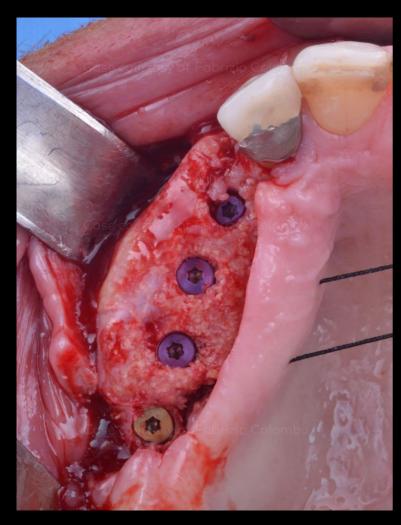
Restorative procedure

# Implant placement

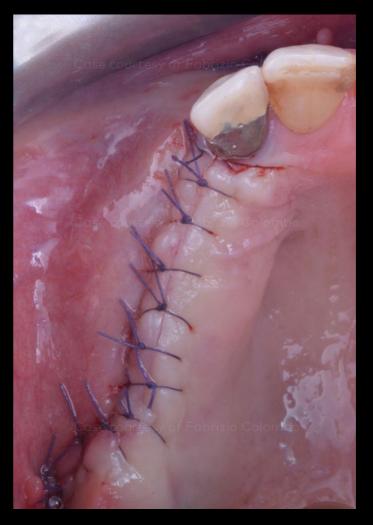


Detail of the regenerated bone (occlusal view)

### Implant placement



Four NobelReplace CC implants in place. The ones in position 13-14-15 are sizing 3.5x13 mm, the distal one is a 4.3x11.5 mm



Closure of the wound by primary intention

## Soft tissues management (FGG)



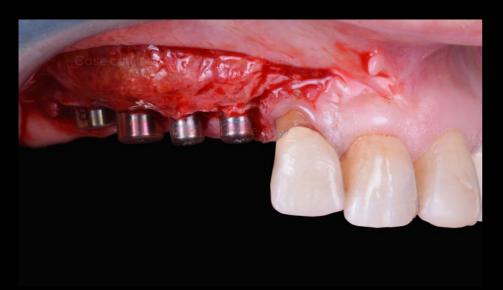


Surgical procedure

Restorative procedure

**Outcome** 

### Soft tissues management





# Soft tissues management





# First quadrant rehabilitation

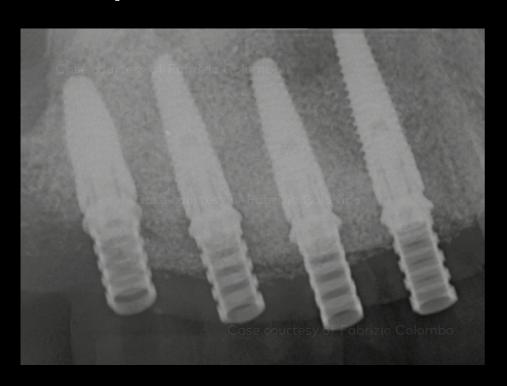


Surgical procedure

Restorative procedure

Outcome

## First quadrant rehabilitation





# Atrophic first quadrant rehabilitation



# Atrophic first quadrant rehabilitation

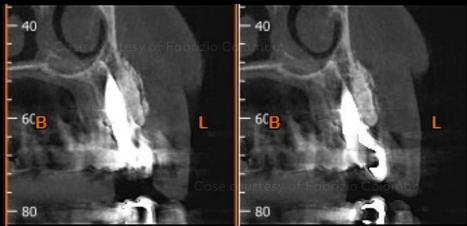


Clinical picture (lateral view) 2 weeks after final prosthesis insertion

## Atrophic first quadrant rehabilitation







OPG and CBCT 1 year after prosthetic loading

#### Case courtesy of Dr. Fabrizio Colombo, DDS



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