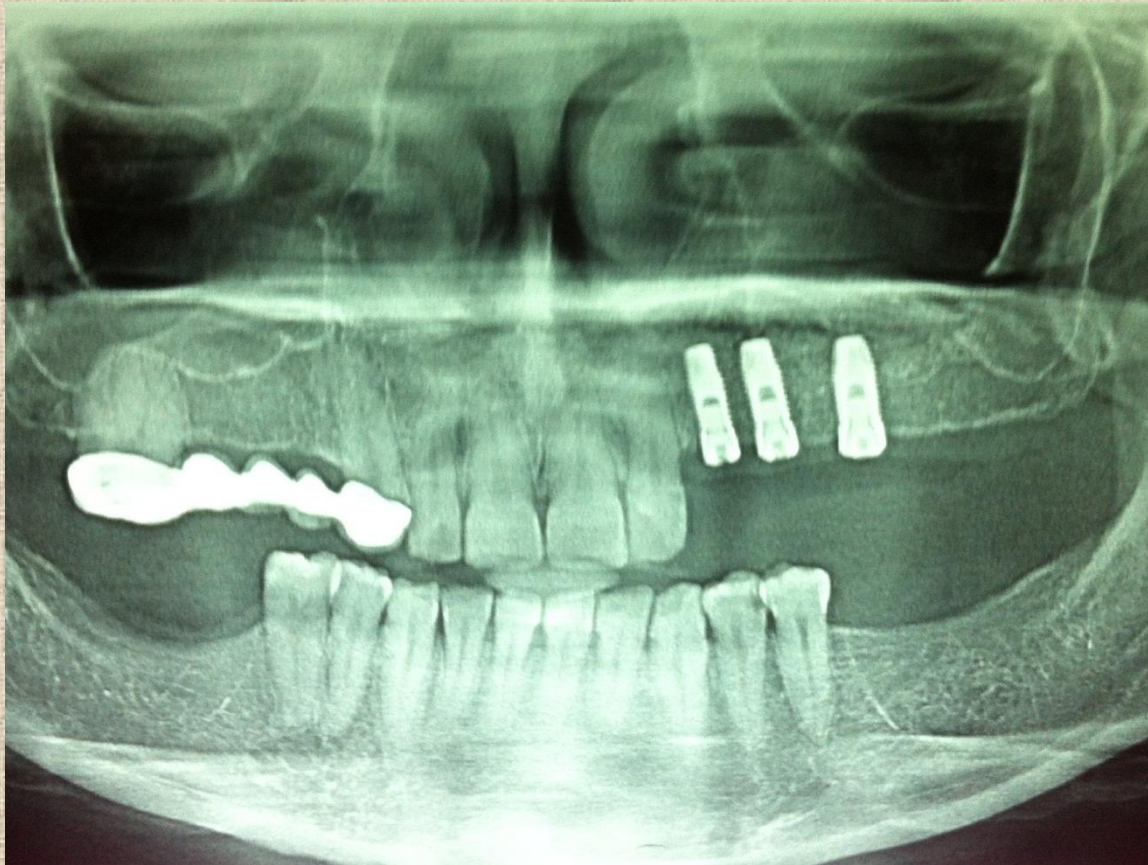


CASE 1

Sinus Lift



Pre-operative OPG showing insufficient subantral distance in the left posterior maxillary region



Sinus lift elevation with simultaneous dental implant placement via lateral approach



2nd stage surgery (implants uncoverage 6 months later)



Gingival formers in position



Abutments applied



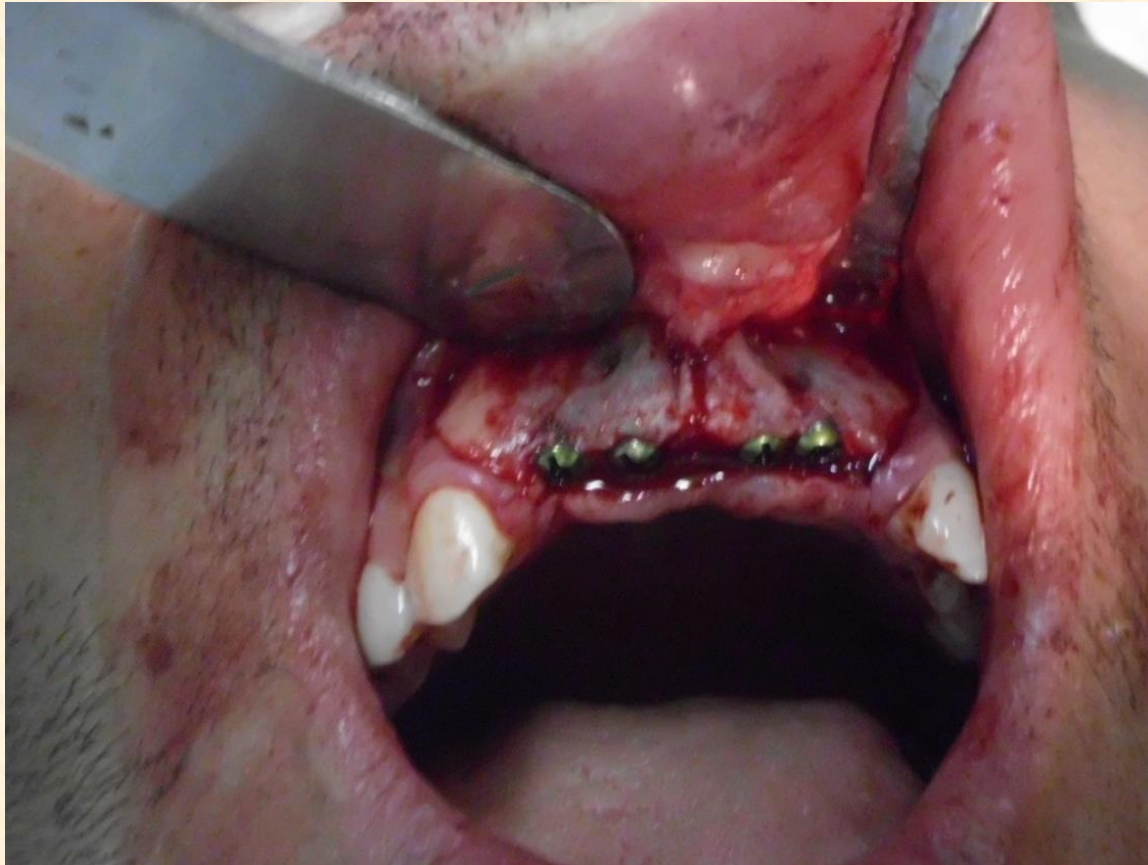
Final prosthesis

CASE 2

Compromised Alveolar Ridge



Edentulous anterior maxilla with vestibular concavity



Four fixtures introduced with resultant fenestrations of the alveolus due to the presence of vestibular concavity



Augmentation of the defects with non-autogenous bone graft material



The graft material is covered with barrier membrane (GBR)



Wound closure



Postoperative CT scan (coronal – axial – sagittal)



2nd stage surgery 6 months later (gingival formers)



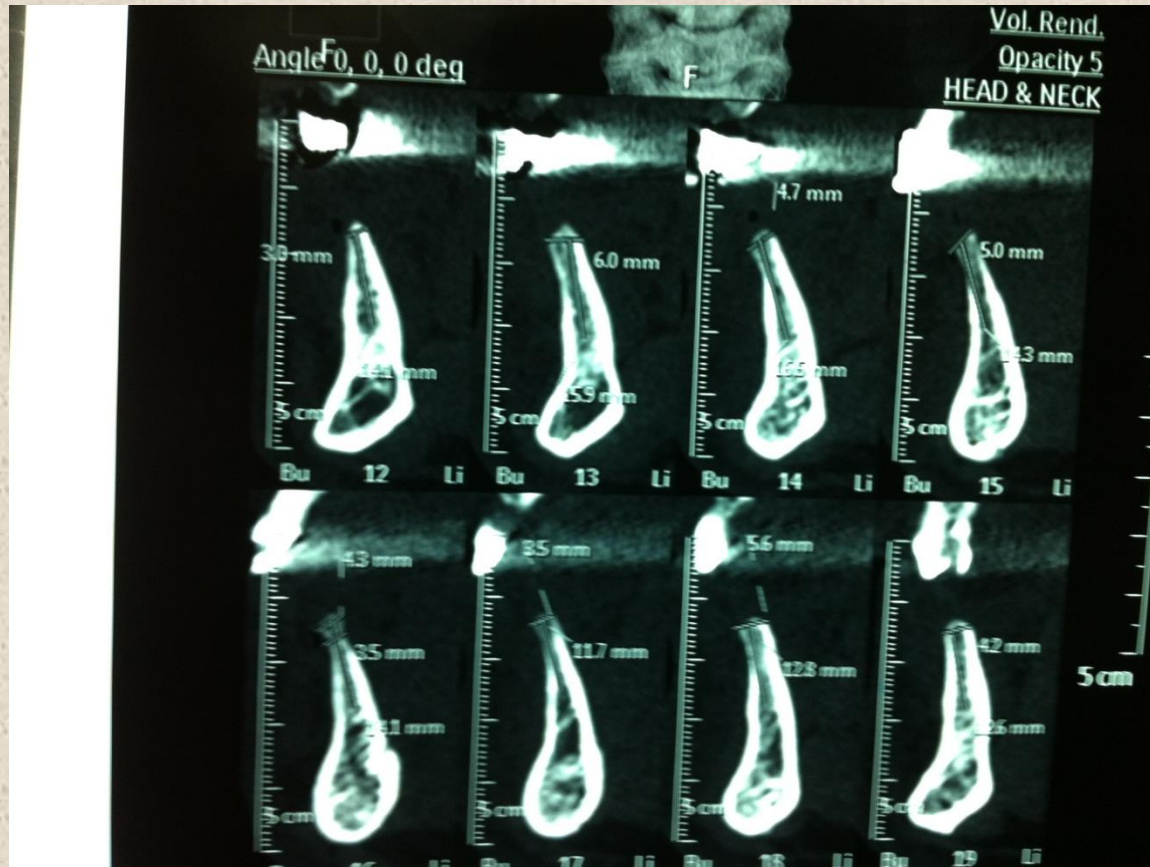
Final prosthesis

CASE 3

Fixed Slim Implants



OPG of a 37 years-old patient with an atrophied edentulous mandible



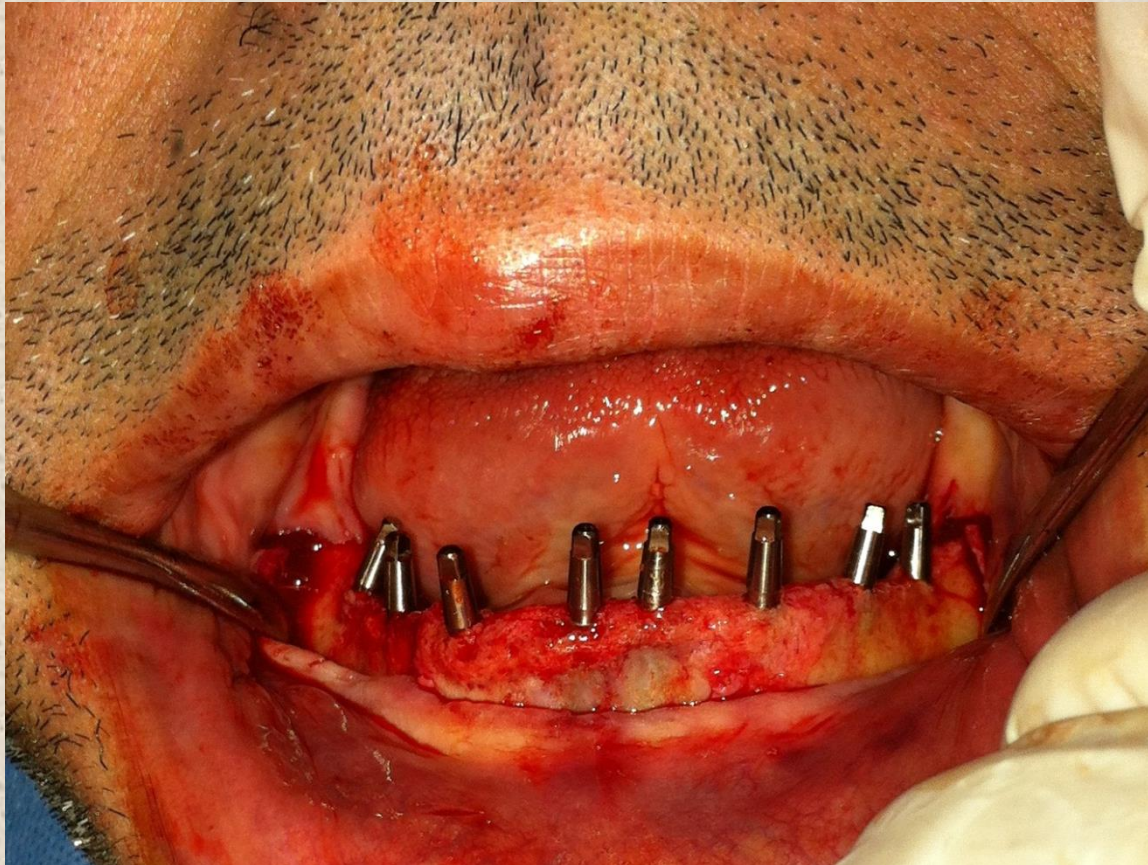
Cross-sectional CT illustrating narrow alveolar ridge (inadequate width for ordinary implants)



Mid-crestal incision



Introduction of fixed slim (narrow 2.5 mm) implants



Introduction of 8 fixed slim implants



Wound closure



Temporary non-functional prosthesis prepared and modified during healing period



Temporary non-functional prosthesis wearied during healing period



2nd stage surgery with abutments in position



Clinical trial of metal frame



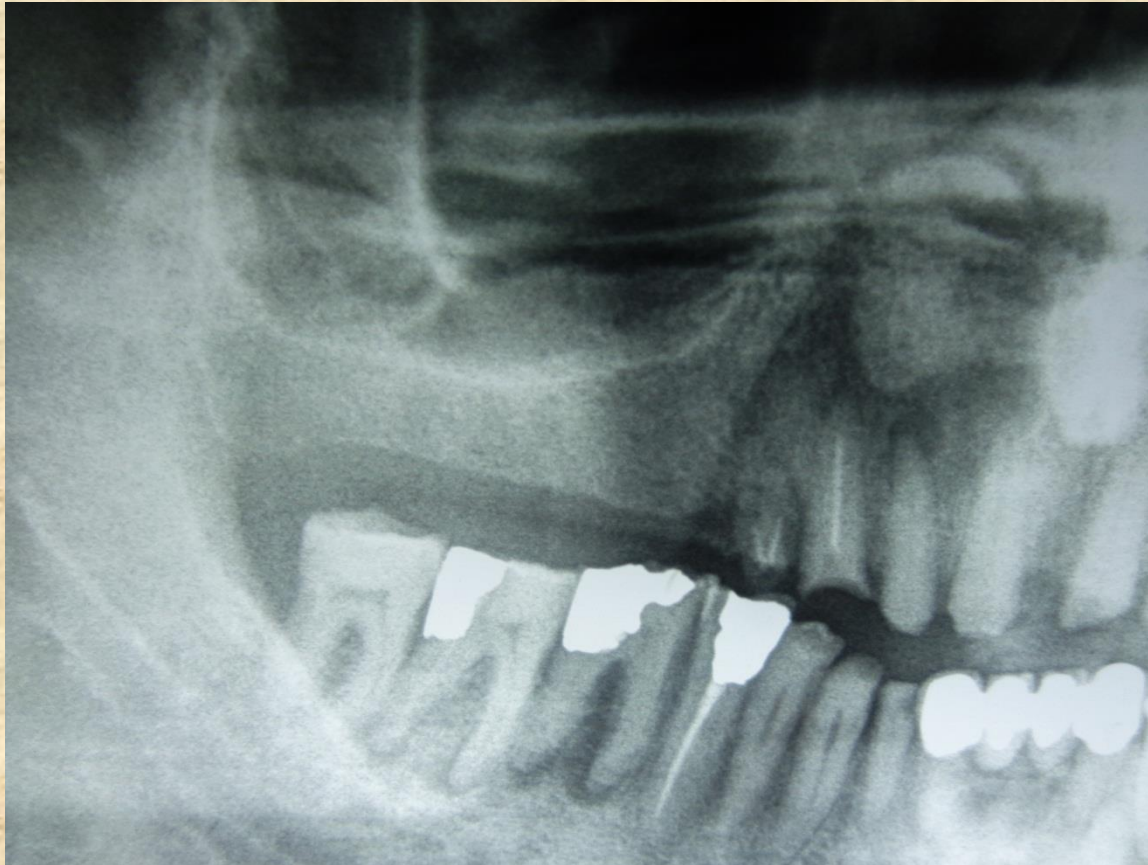
Final prosthesis on the articulator



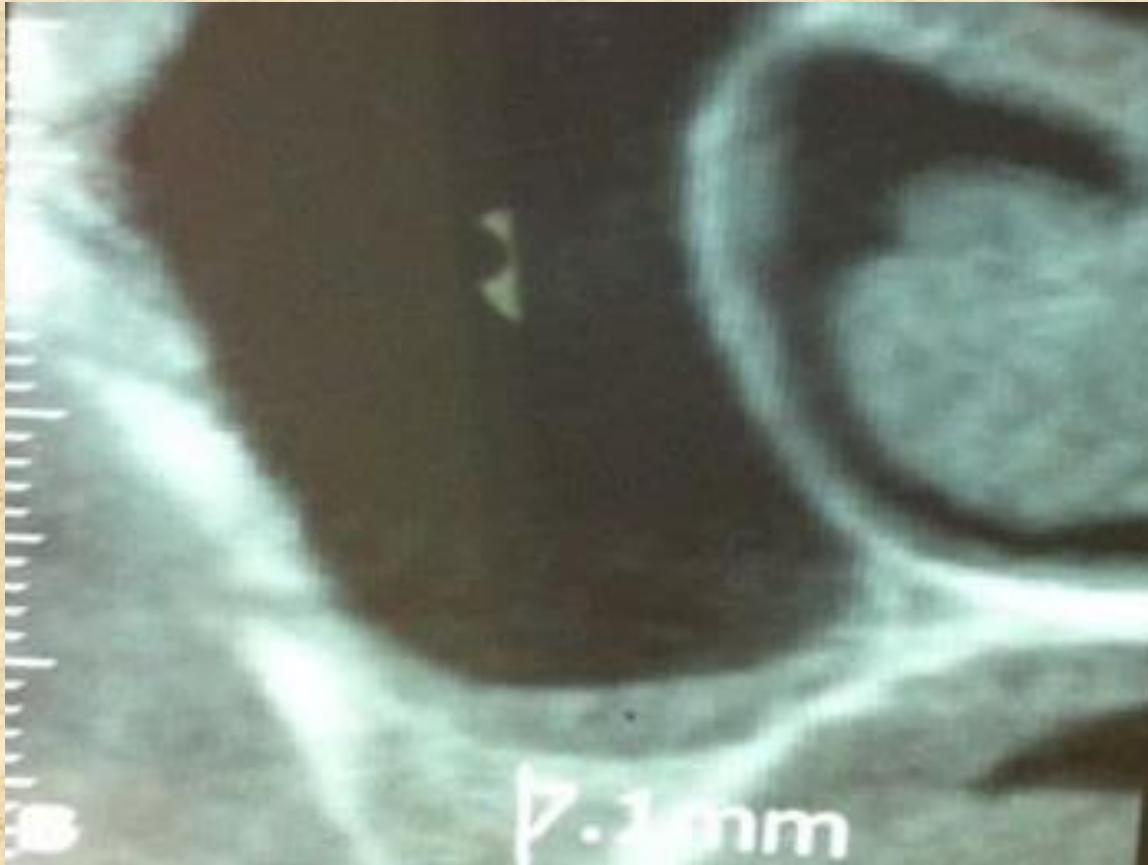
Final prosthesis in the patient's mouth

CASE 4

Sinus Lift



OPG showing pneumatization of the right maxillary sinus



CBCT demonstrates the subantral distance of 7.1 mm



Edentulous right posterior maxillary region (sinus zone)



Crestal incision with palatal bias



Drilling of implants beds with a special crestal sinus elevation burs with stoppers leaving 1-2 mm below the sinus floor



Green-stick fracturing of the sinus floor by osteotomes with firm tapping



Hydraulic pressure elevation for the sinus membrane



Sinus balloon utilized for sinus membrane elevation



Application of the sinus balloon in the drill holes



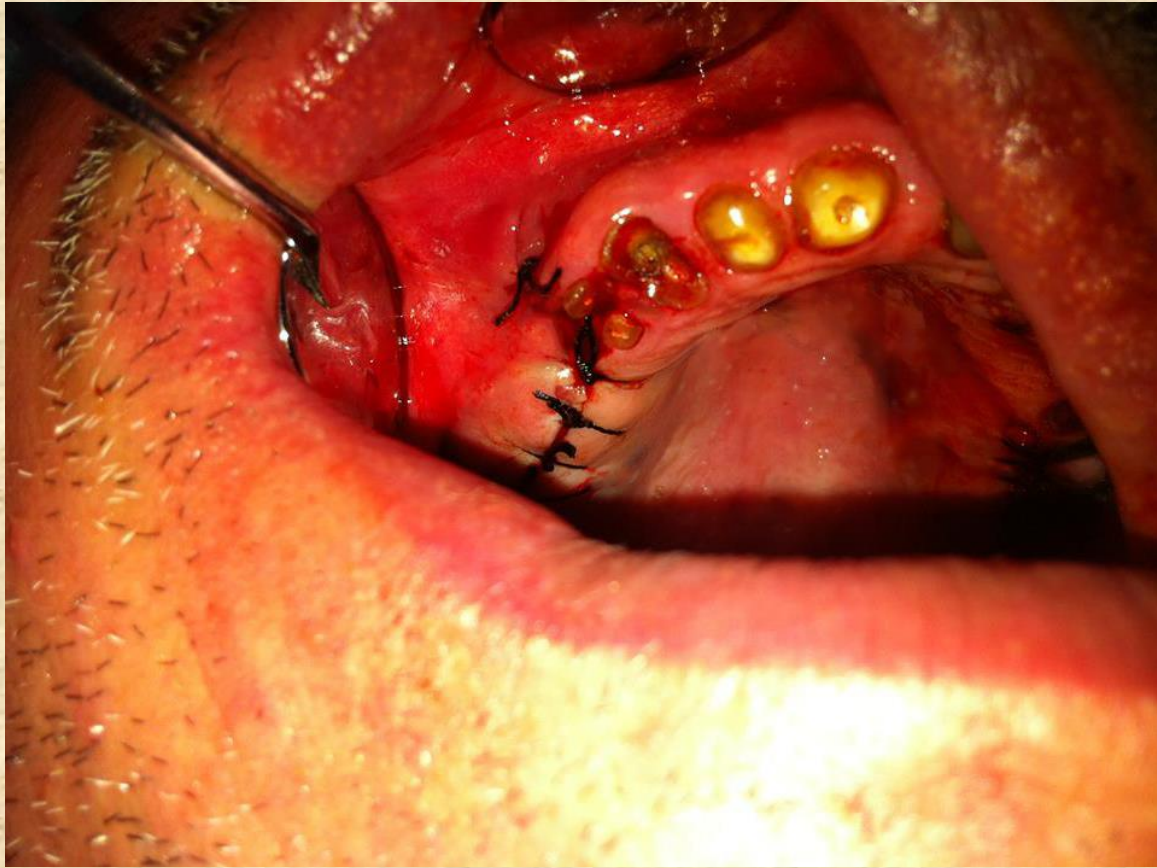
Barrier membrane introduction into the sinus membrane space



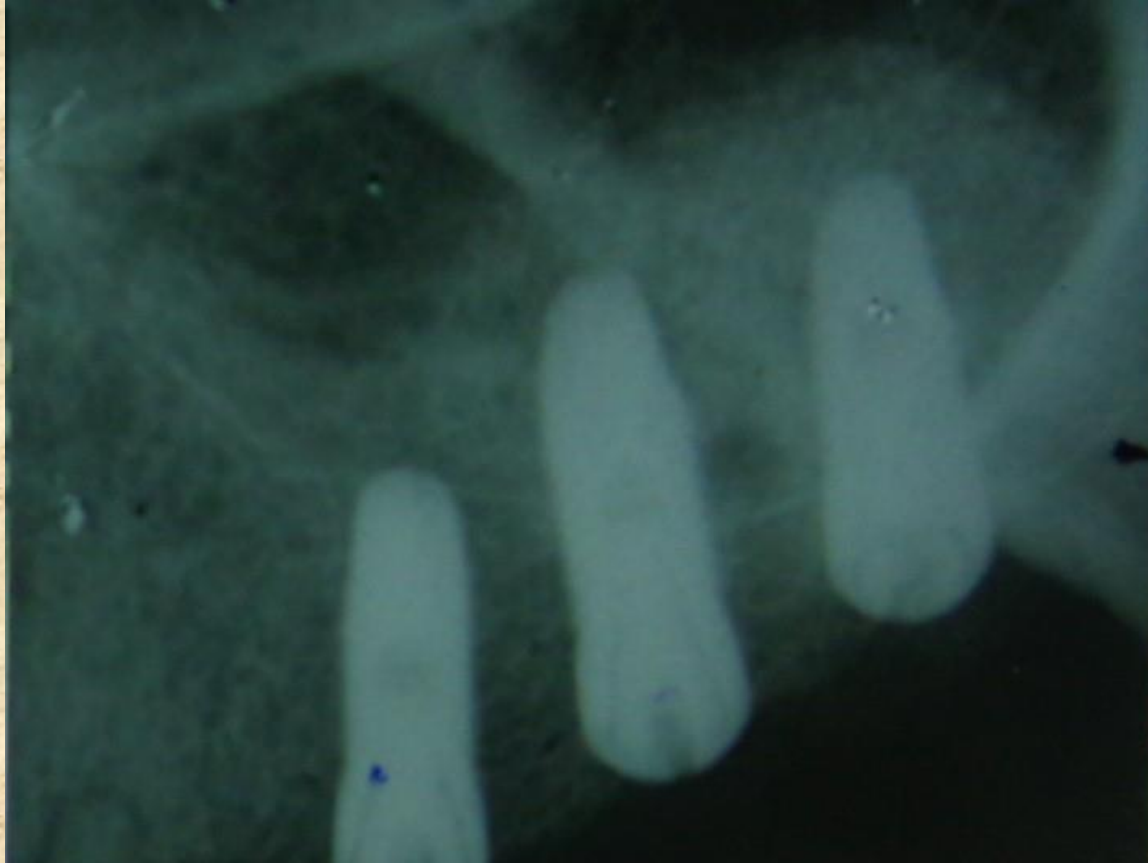
Dental implants introduced into drill holes and the sinus



Fixtures in place after the application of cover screws



Wound closure



Immediate postoperative periapical radiograph showing implants, non-autogenous bone graft material and patent sinus membrane



CBCT 6 months following surgery

CASE 5

Flapless Implant Surgery



OPG for a patient with edentulous left posterior mandible



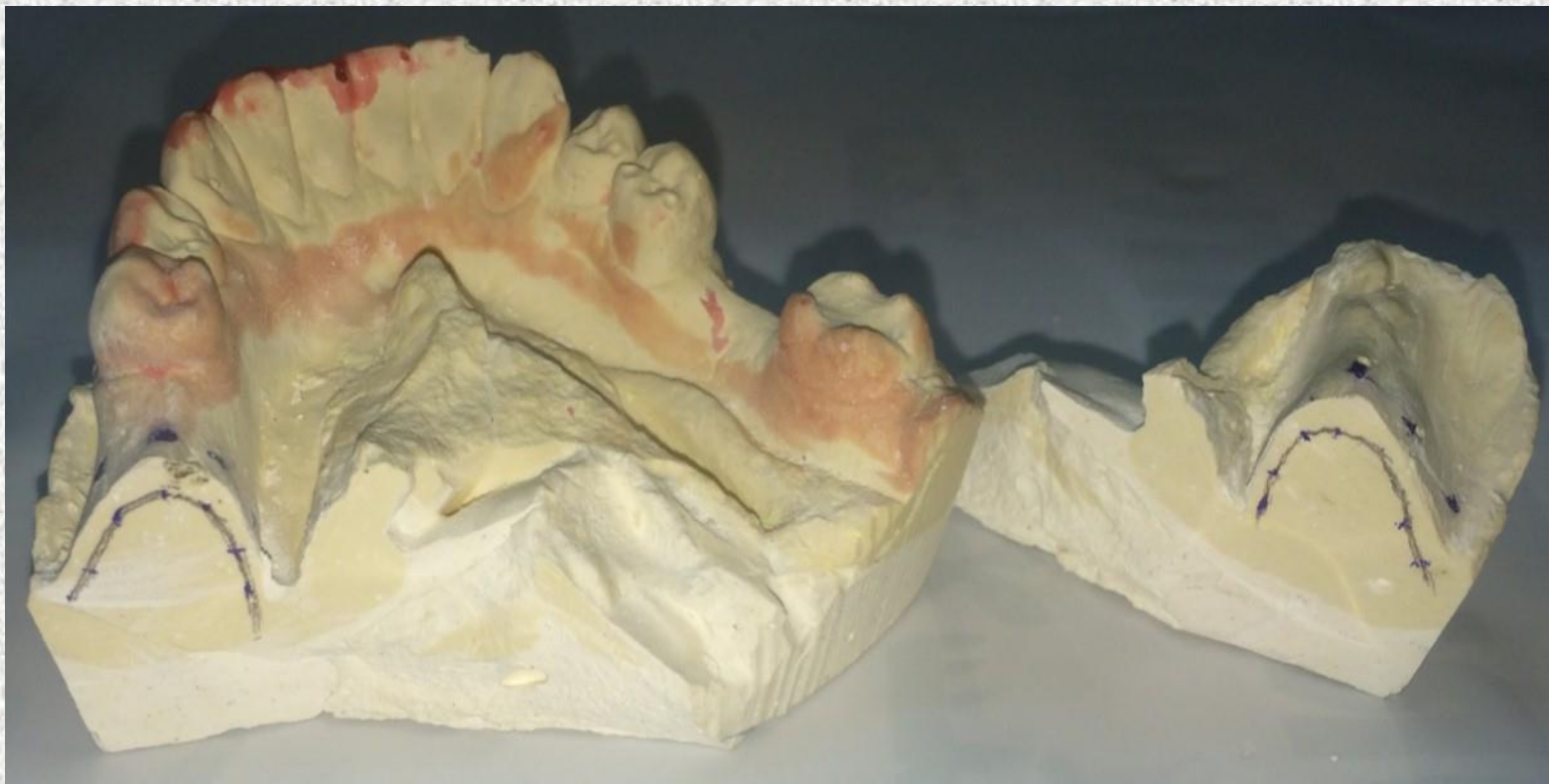
Preoperative view



Study model locating the proposed implant sites



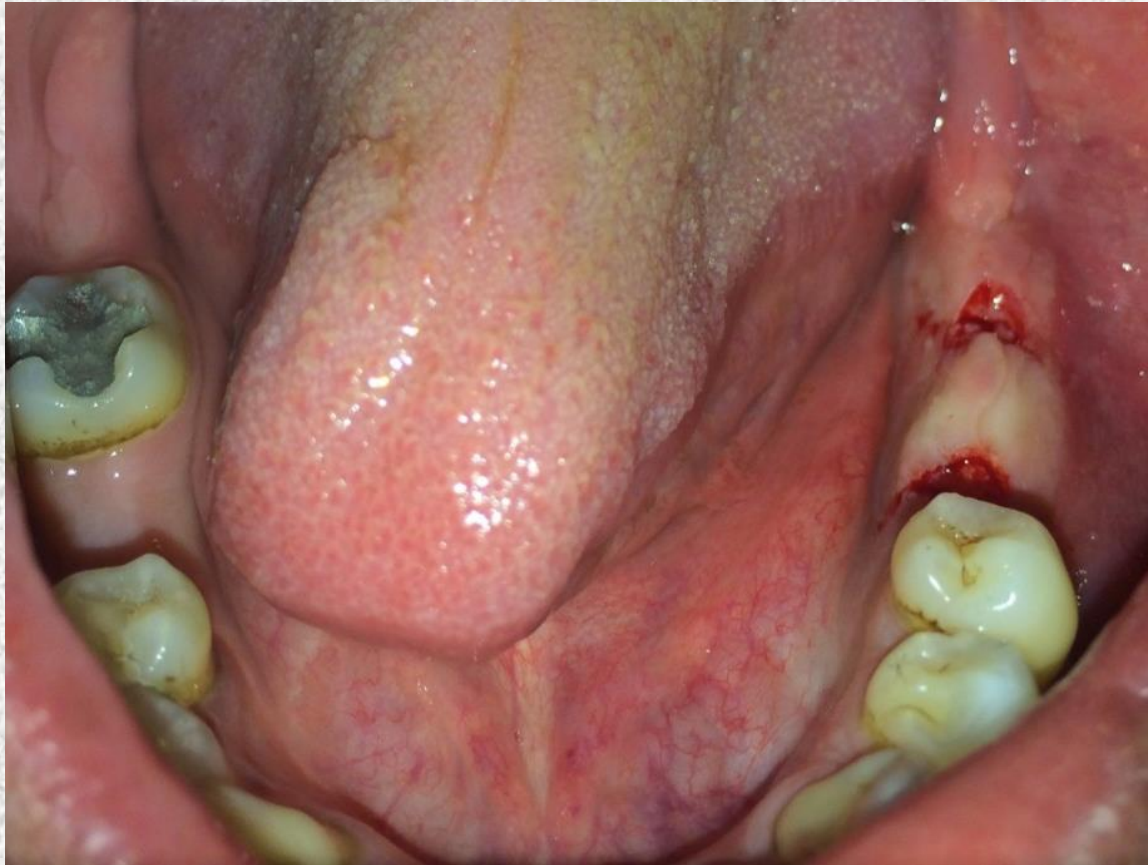
Fabricated surgical template



Bone sounding (ridge mapping) on study model



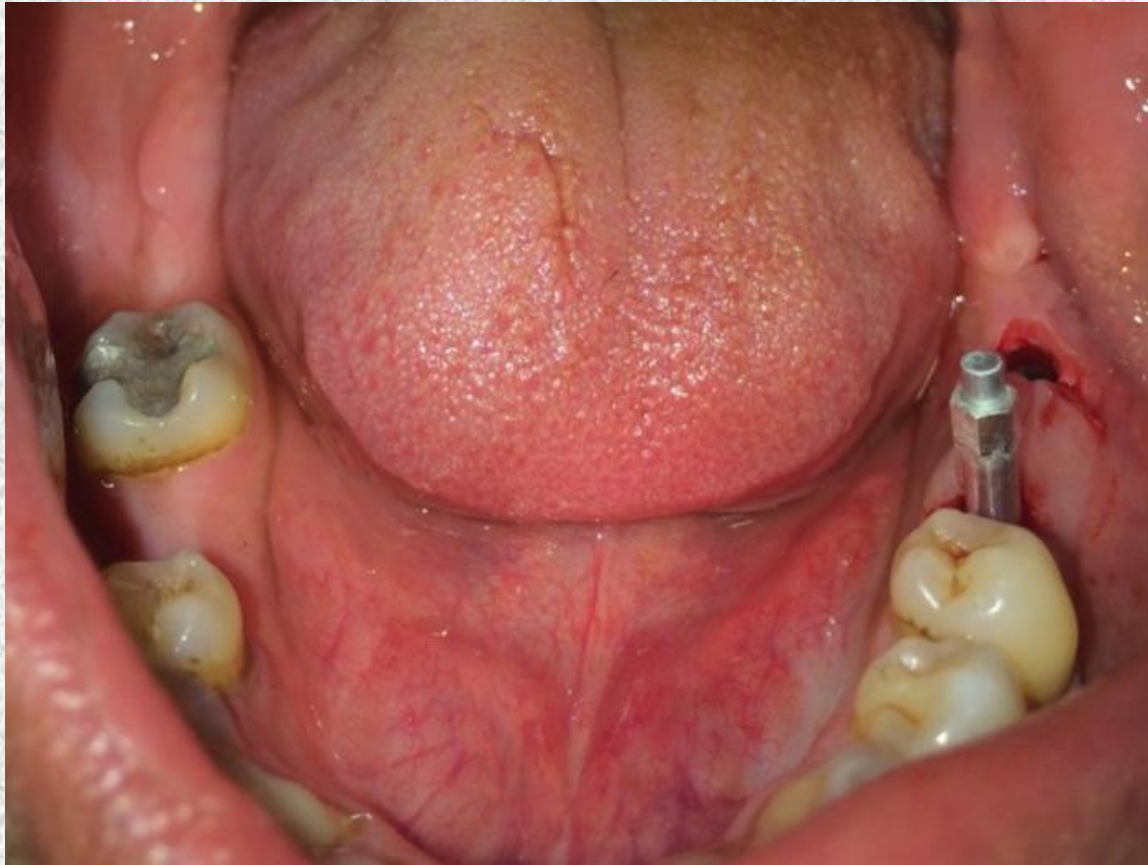
Application of the template into the patient's mouth



Soft tissue punch for flapless implant surgery



Two fixtures in place



Smart peg utilized for checking of primary stability with the use of resonance frequency analysis test



Cover screws (healing screws) are applied



Postoperative OPG



2nd stage surgery



Final prosthesis