

Leukocyte Platelet Rich Fibrin (L - PRF) in Maxillary Sinus Augmentation: Case Series



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INTRODUCTION: The rehabilitation in the posterior maxillary site with dental implants can be a challenge due the anatomical limitations as a result of bone atrophy and the pneumatization of the sinus. Many surgical techniques have been developed to perform maxillary sinus floor lift to increasing bone volume. Leukocyte and Platelet-Rich Fibrin can improve wound healing by stable clot formation and releasing growth factors.



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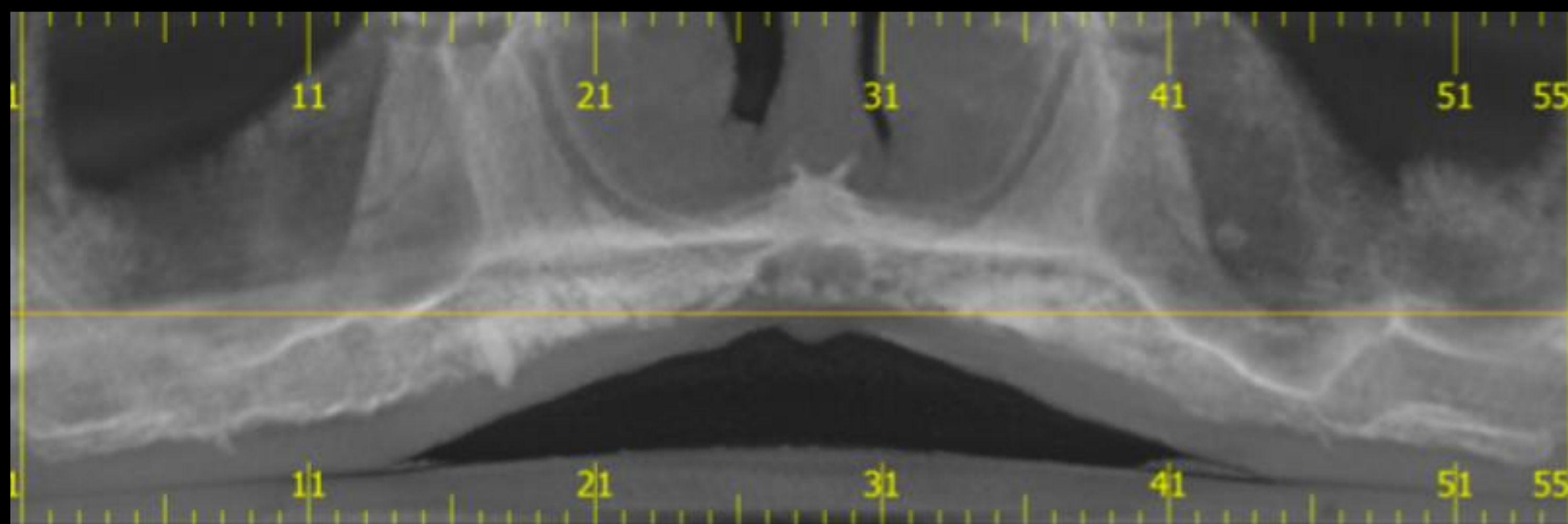
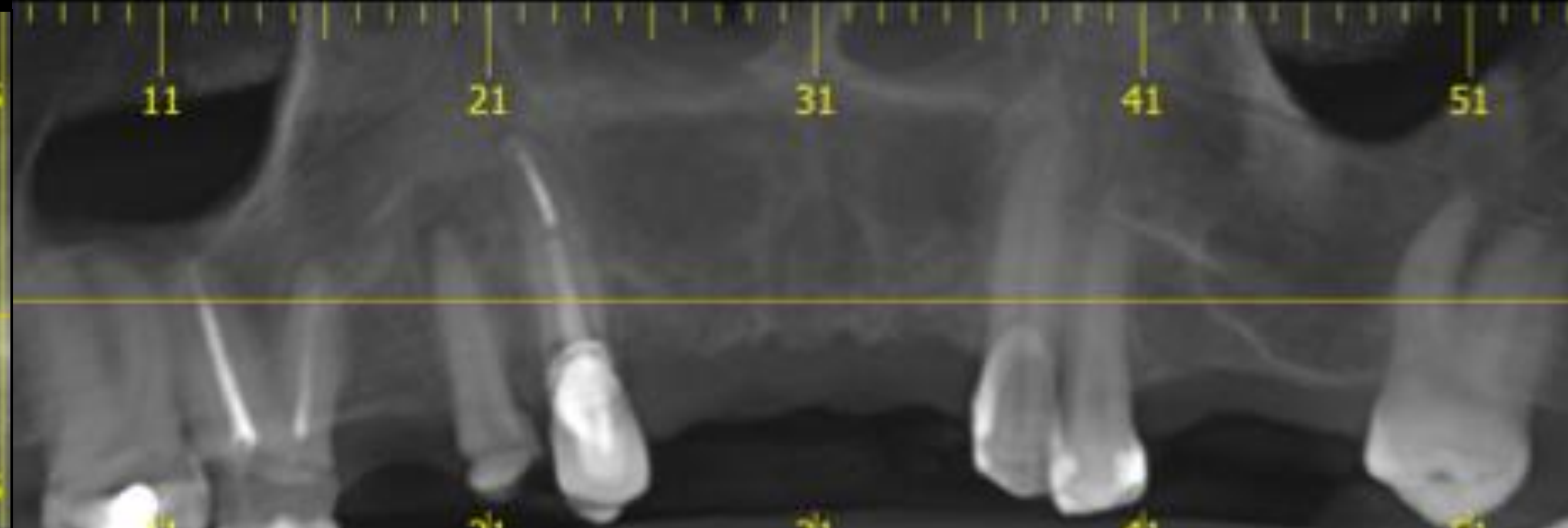
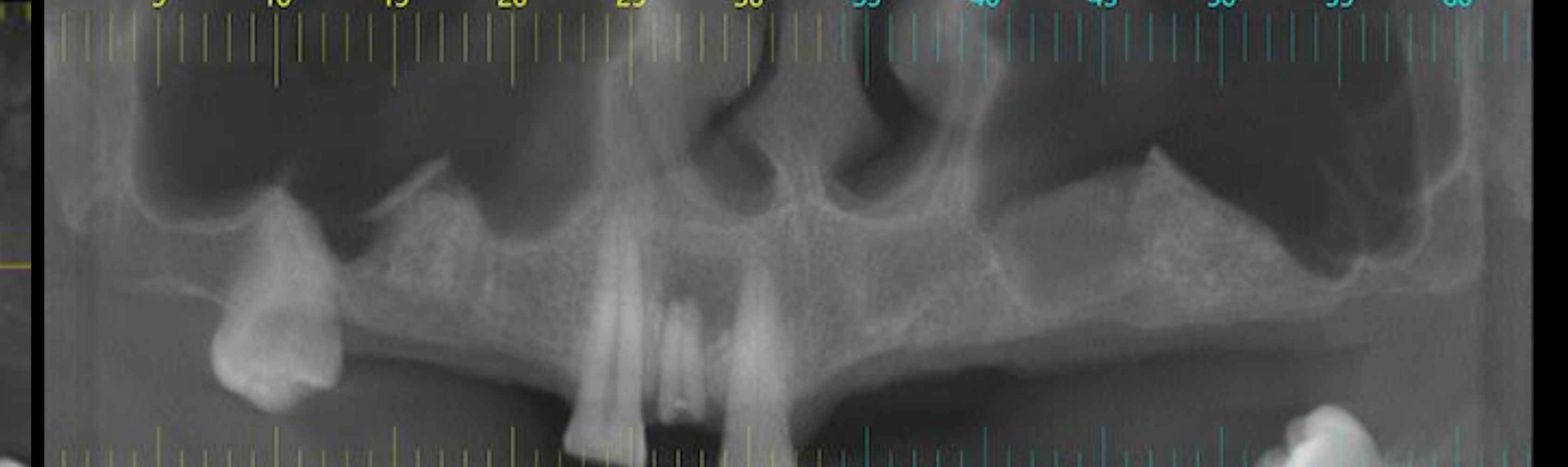
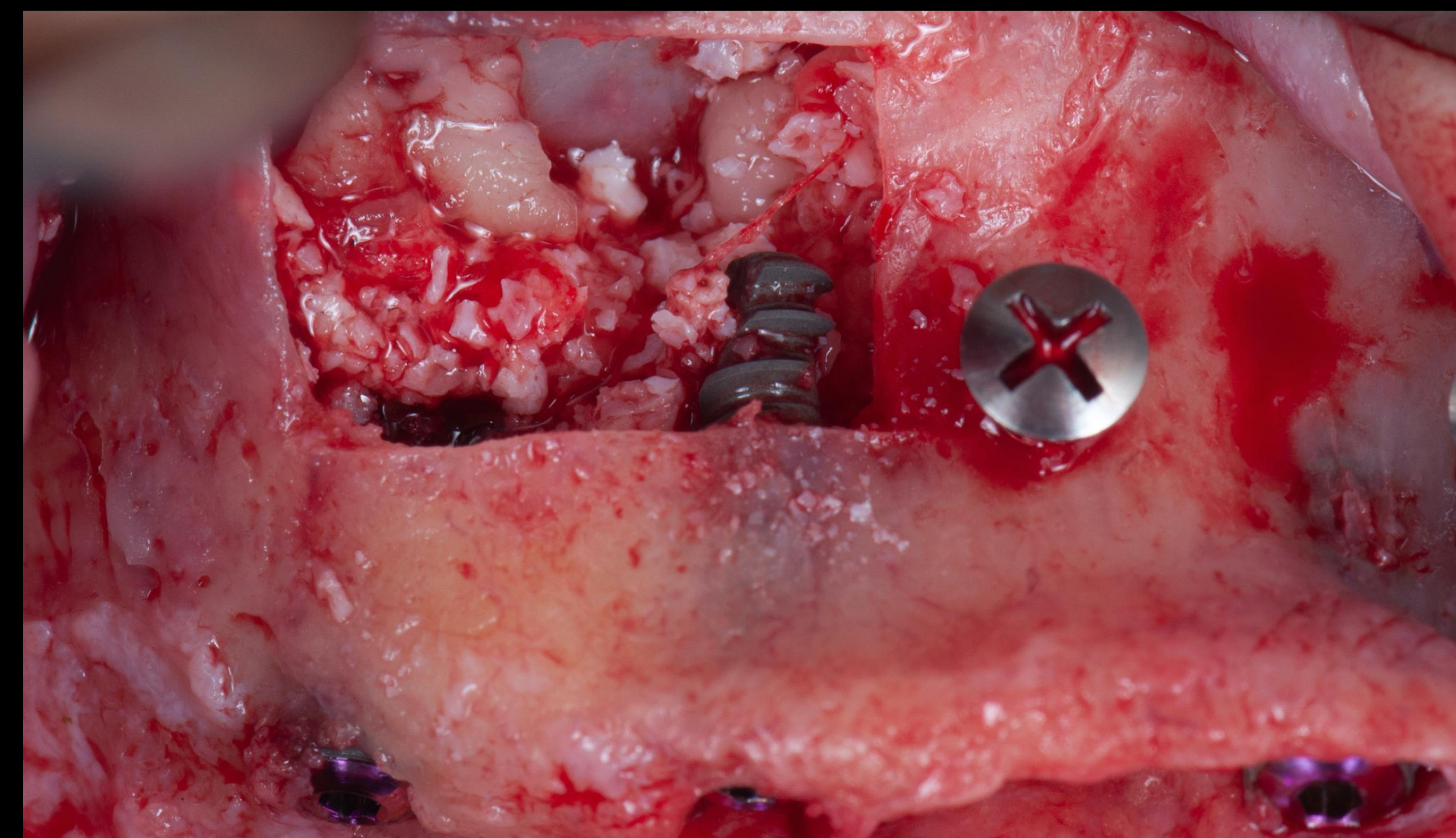
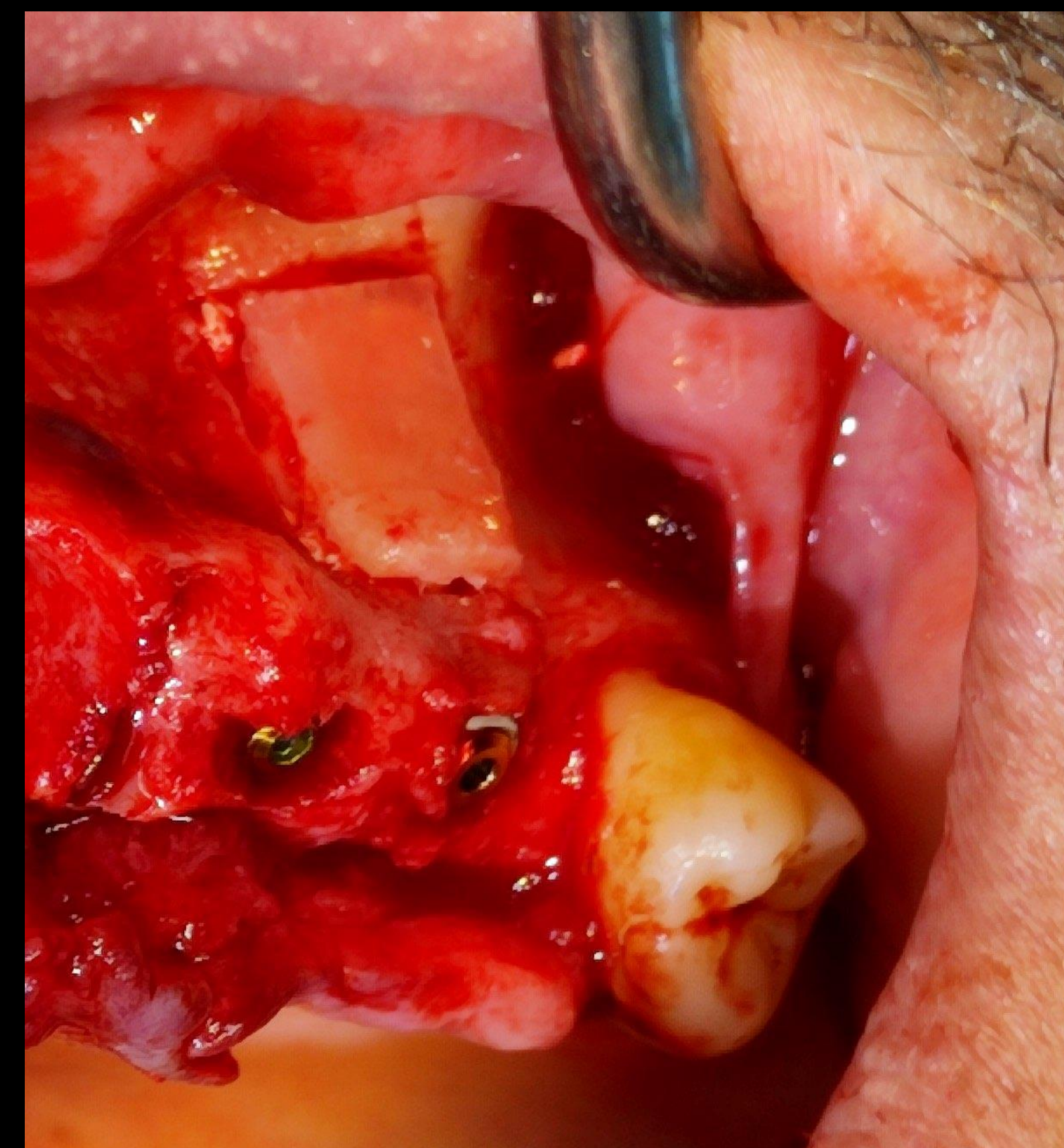
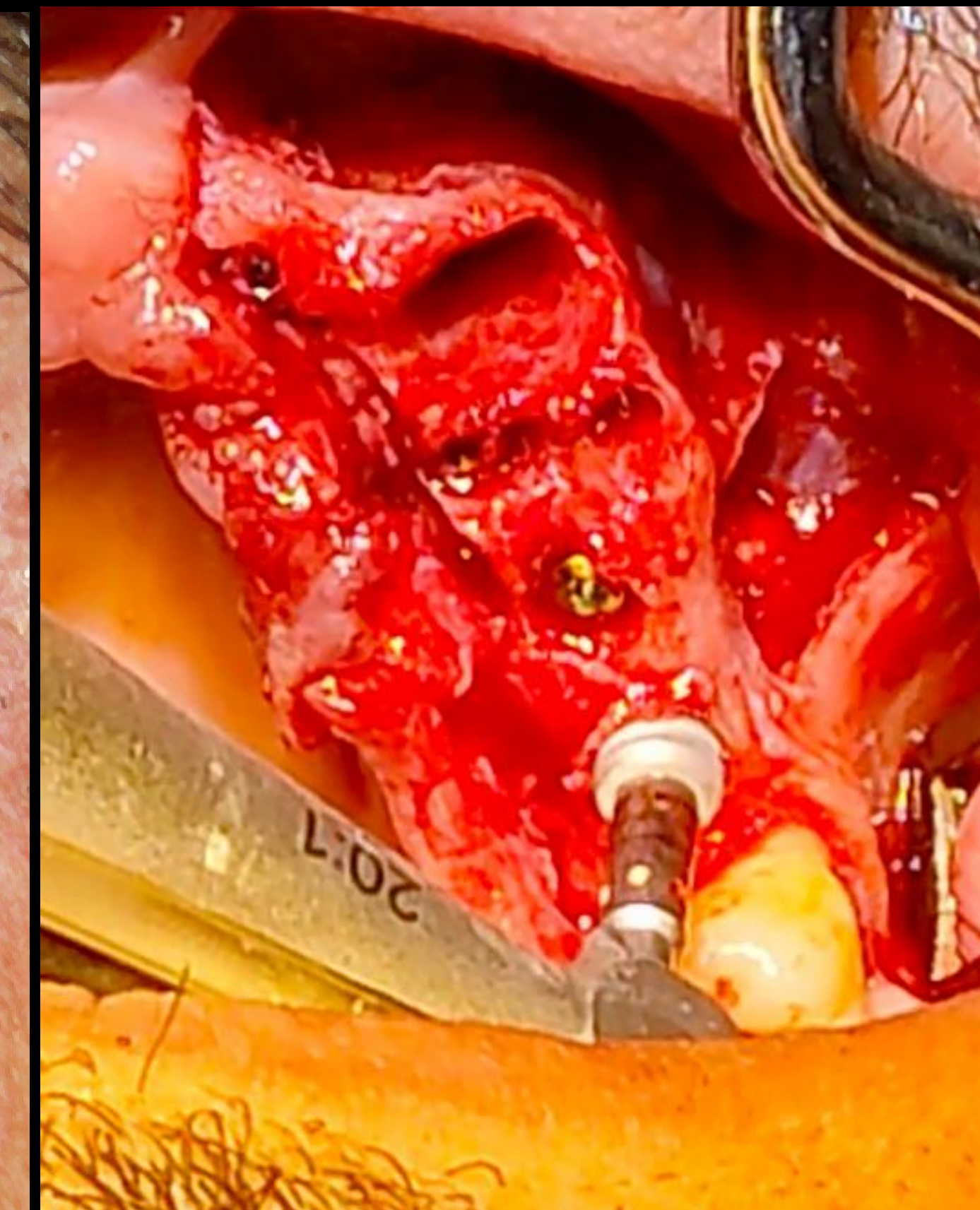
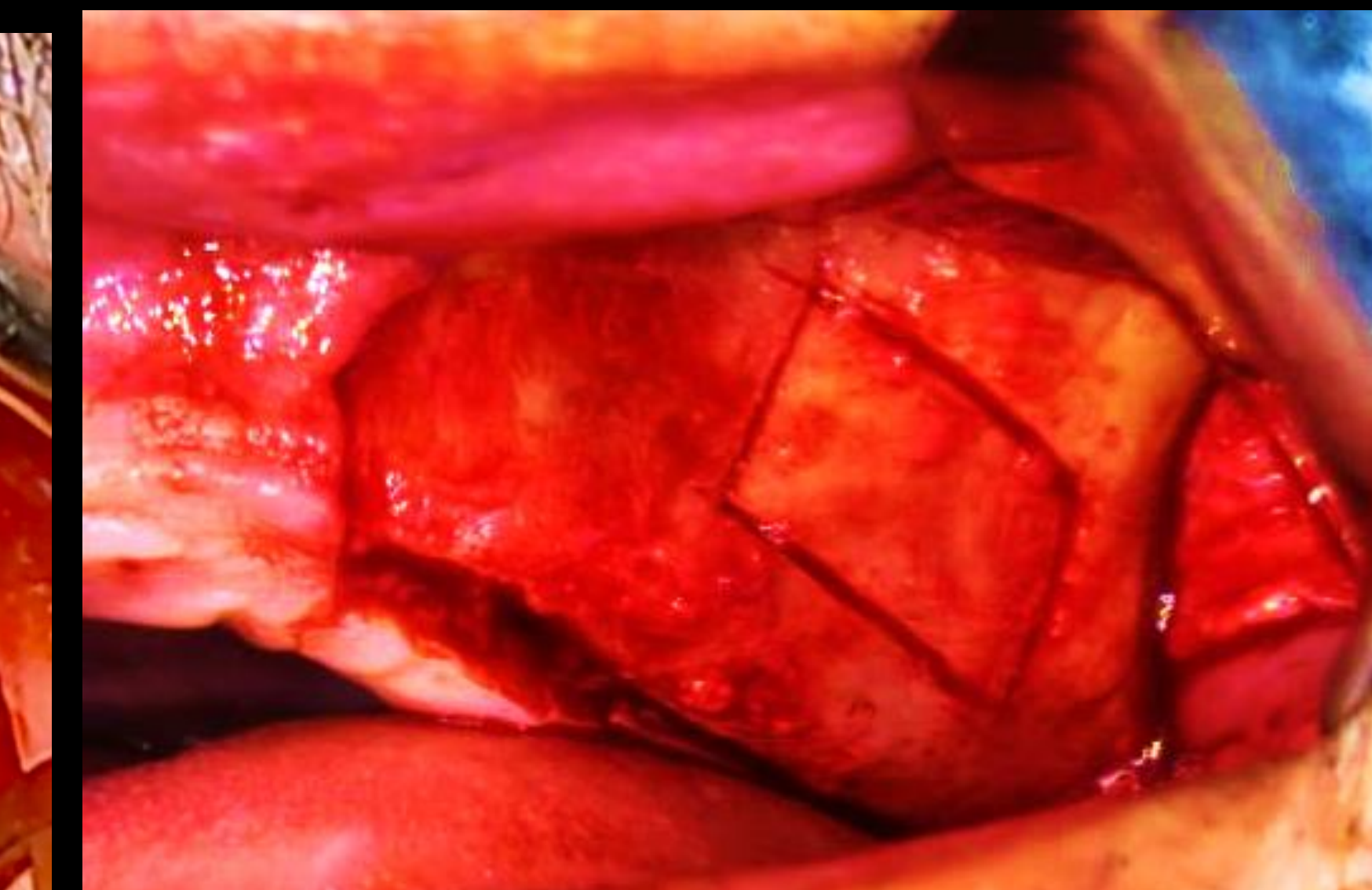
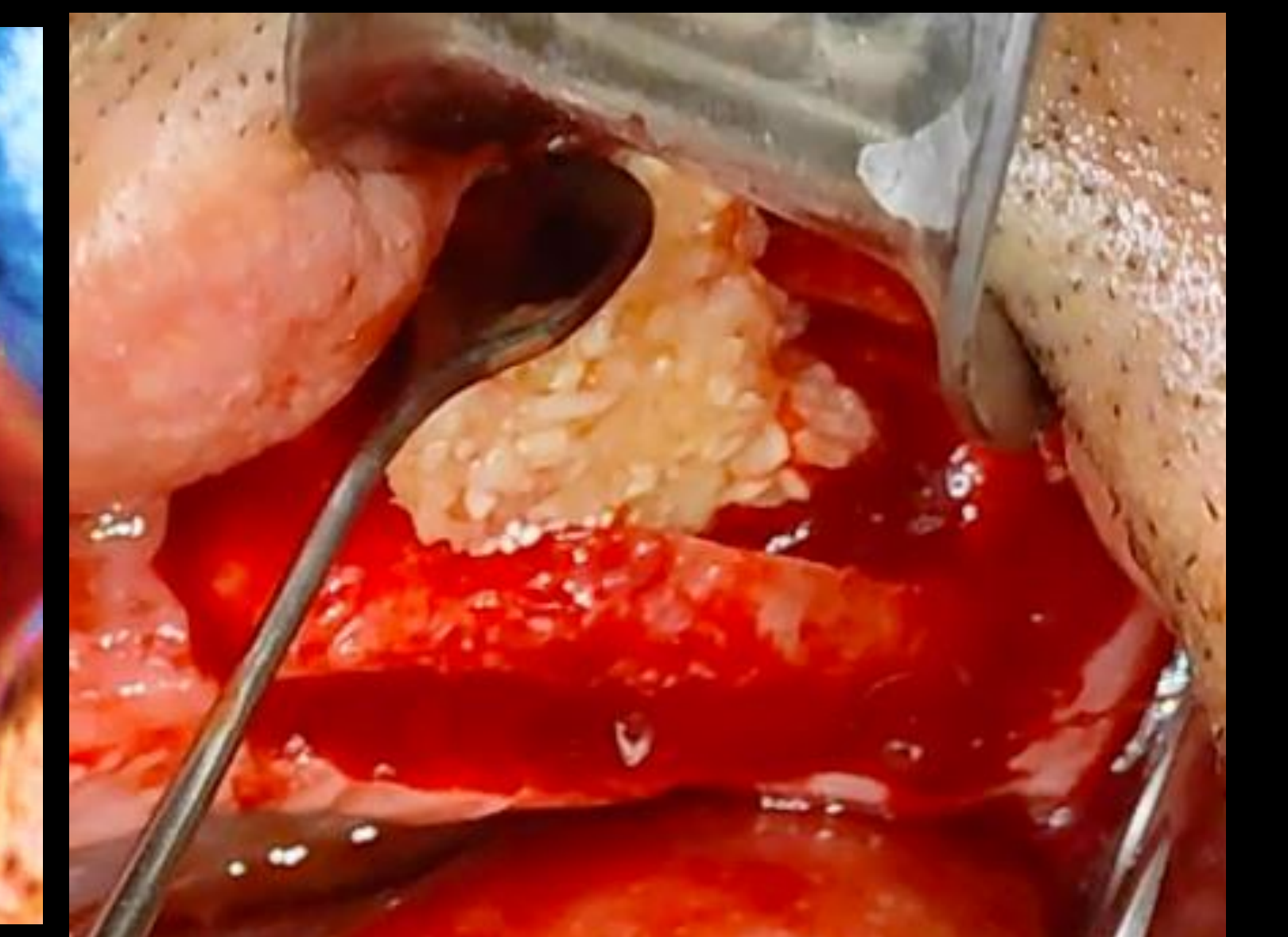
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CASE 01 - Female, 48 years, presented for a full arch implant supported prosthesis. Simultaneous to bilateral sinus floor lift, implants were inserted 06 M.C. 3.5 x 10mm and sticky bone made mixing PRF membrane and liquid with particulate allograft bone.

02 - Male, 67 years, showed absence of #13, 14 e 15 tooth. Maxillary sinus floor lift by lateral window approach, with 02 M.C. 4.3 x 11.5 mm were installed simultaneously to sticky bone and xenografts bone.

03 - Male 55 years, presented for a full arch implant supported prosthesis. During the Schneider's membrane elevation a perforation was notice..L - PRF membranes were placed to seal it and the grafting with sticky bone and xenografts along 06 M.C. 3.5 x 10mm implants.



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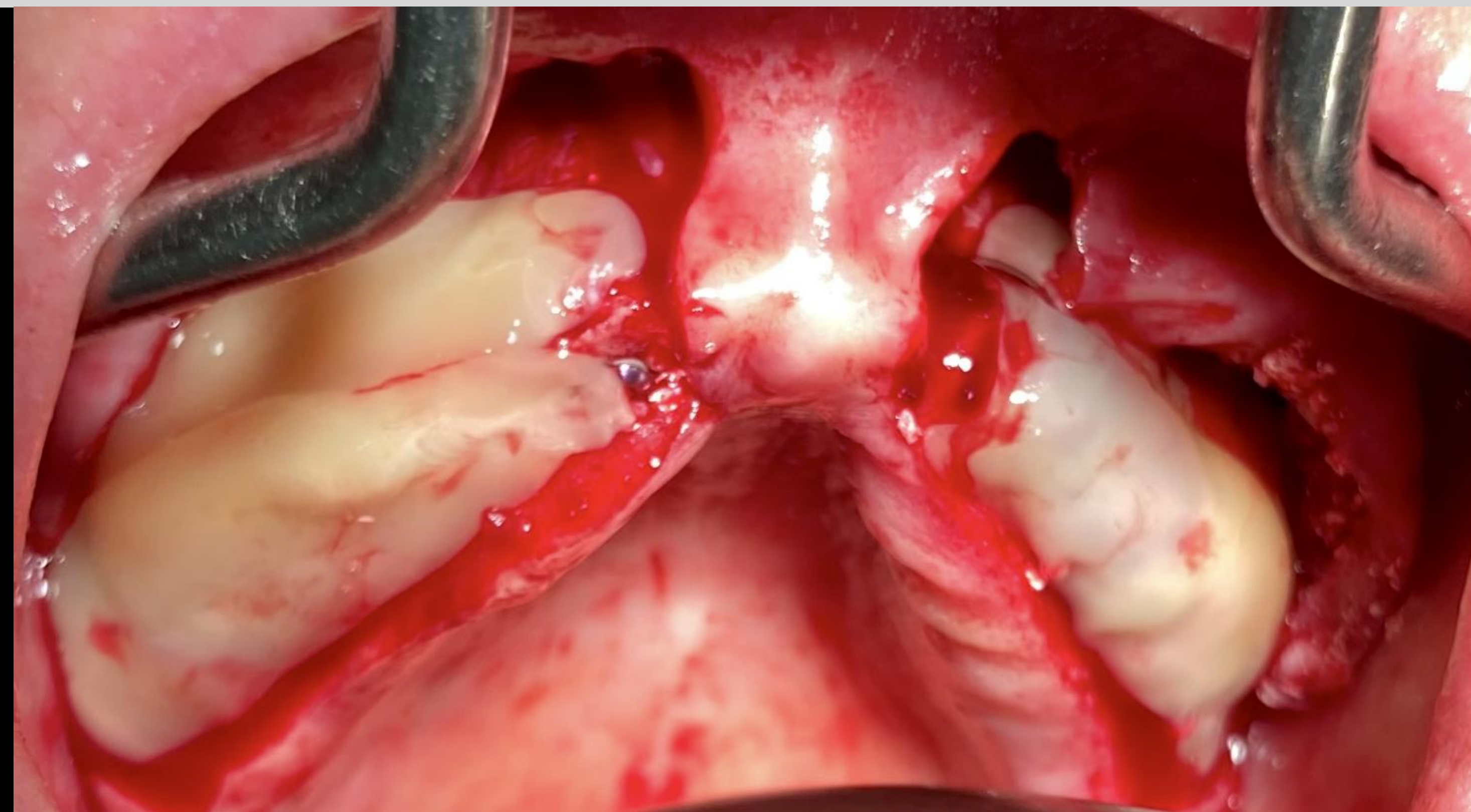
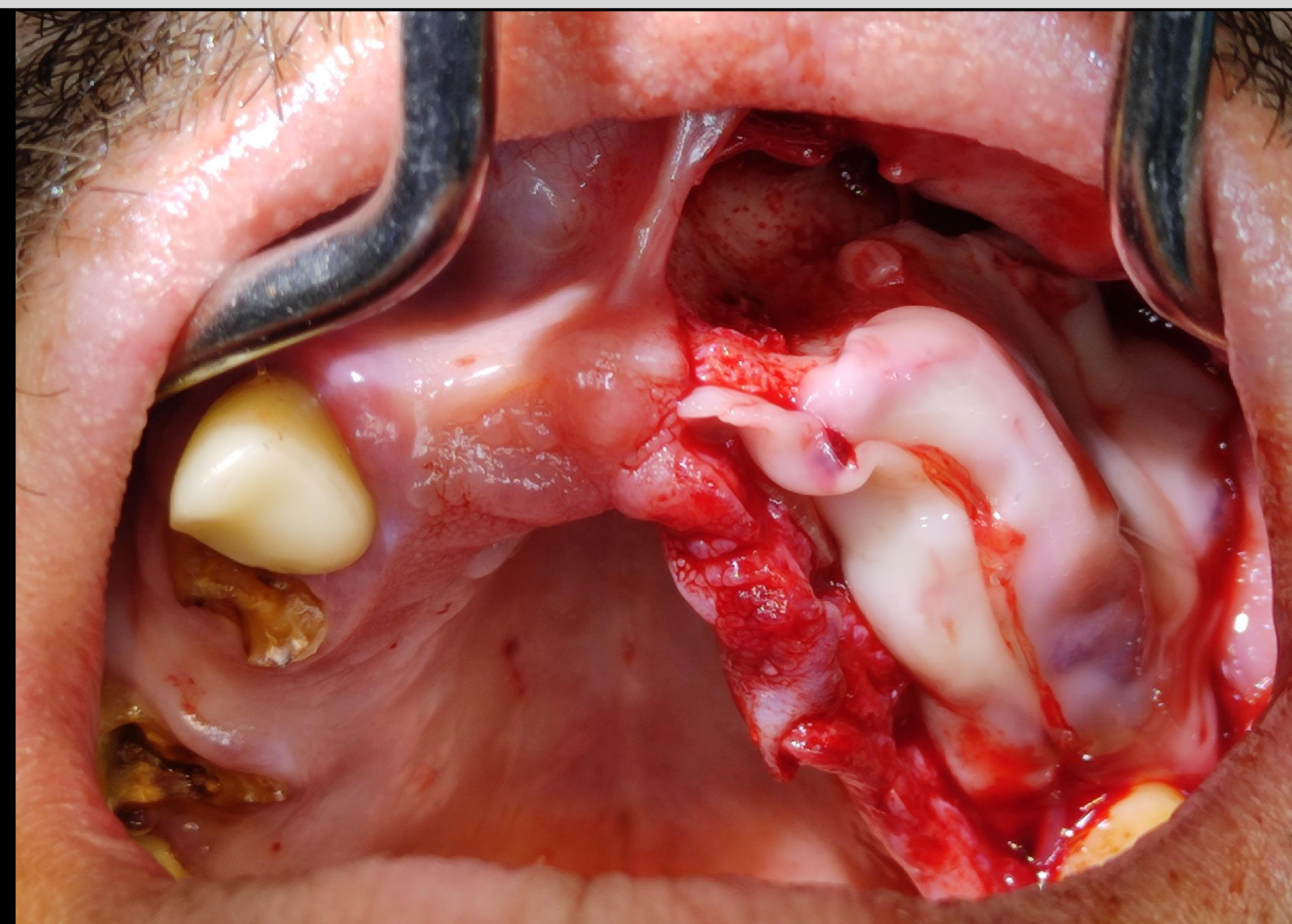


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CASE 01 - After 06 months CBCT showed osseointegration around implants. The prosthetic phase was made by a metal - acrylic interim prosthesis full arch metal acrylic The patient is in a 18 months follow up.

CASE 02 - After 04 months RX image showed osseointegration around implants. The prosthetic phase was made by a metal - ceramic on the edentulous site. The patient is in a 12 months follow up.

CASE - 03 - After 06 months CBCT showed osseointegration around implants, included the right side where the perforation occurred. The prosthetic phase was made by a metal - ceramic. The patient is in a 24 months follow up.



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CONCLUSION: All 03 patients presented symptom free and without implant mobility or radiographic evidence of severe bone loss. No infection on hard and soft tissues was noticed. Prostheis achieved esthetics and occlusal function. Maxillary sinus augmentation using a lateral window approach is a valide technique to treat the atrophic posterior maxilla. L - PRF in bone grafting showed clinical benefits and improved surgery outcomes.

CASE 01

CASE 02

CASE 03



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