

Guided bone regeneration, implant placement with mini hybrid FPD for lower mandibular anterior area

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• Introduction:

Patient had severe bone loss on lower anterior teeth. Patient was referred to the grad prosthodontics clinic for a restorative consult for possible implant supported fixed partial denture (FPD) and wax up. The plan was approved and was as follows.

1. Preliminary CBCT for implant planning and wax up
2. Extraction of teeth #23-26 without alveolar ridge preservation
3. Guided bone regeneration after the healing of extraction is completed.
4. After guided bone regeneration complete healing, CBCT taken and definite implant placement was done. The decision was made to use mini hybrid FPD
5. Implant placement
6. Restoration with mini hybrid FPD

• Methods

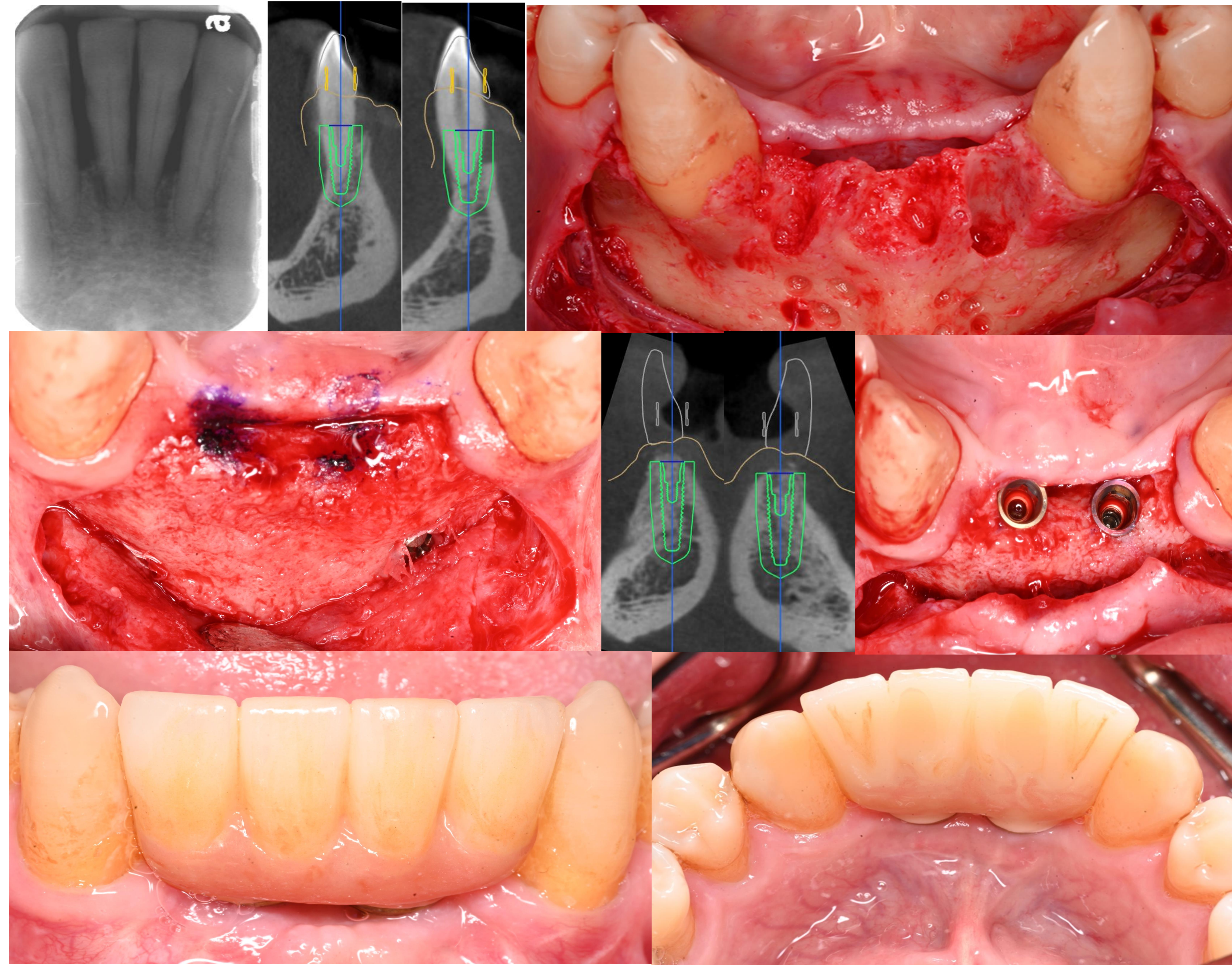
Extraction was done. After the healing is completed guided bone regeneration was done using allograft bone graft with titanium reinforced PTF membrane. At 4 weeks post op minor membrane exposure was found without any suppuration or complains from the patient. The site was monitored weekly for another 4 months without any further complication and the decision was made to remove the membrane.

• Results:

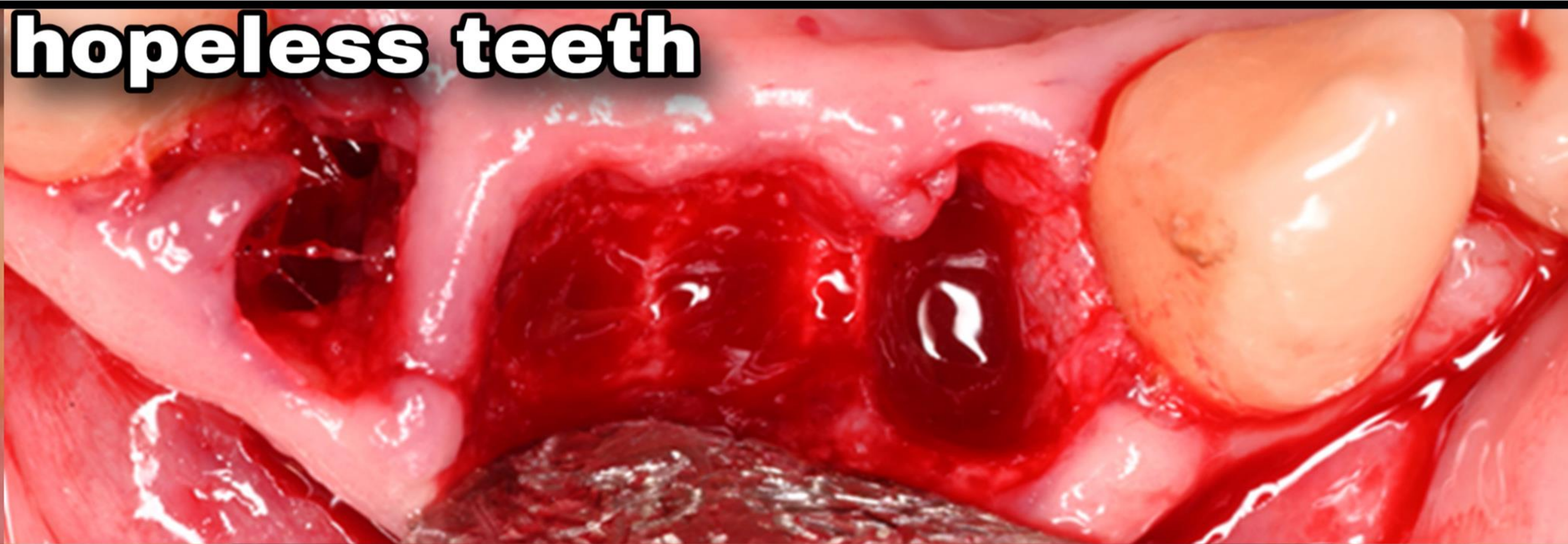
After 2-3 months of membrane removal CBCT was taken. Successful ridge augmentation achieved and the implant were planned. Due to the position of the adjacent canines roots the implants were planned to be placed in #24 #25 position and cantilevered #23 and #26 crowns.

• Conclusion:

Implant were placed as planned with one stage approach and costume healing abutment were placed. After 4 weeks of uneventful healing, the mini hybrid fixed partial prosthesis was placed.



Extraction of hopeless teeth

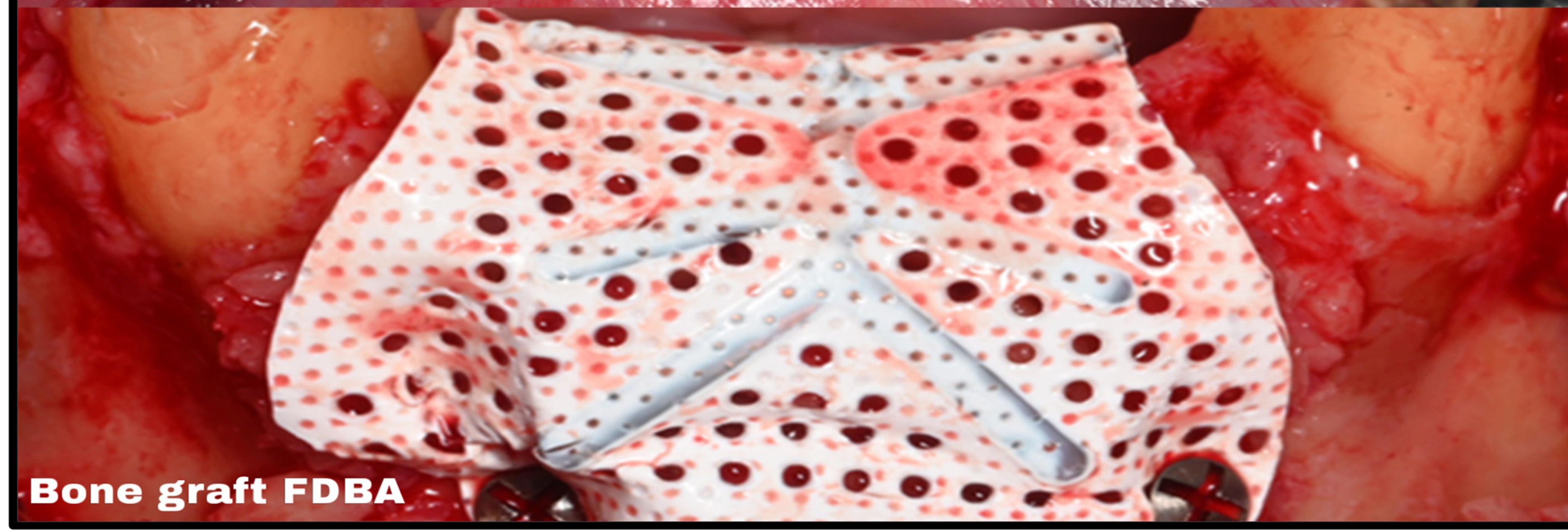


immediat post-op

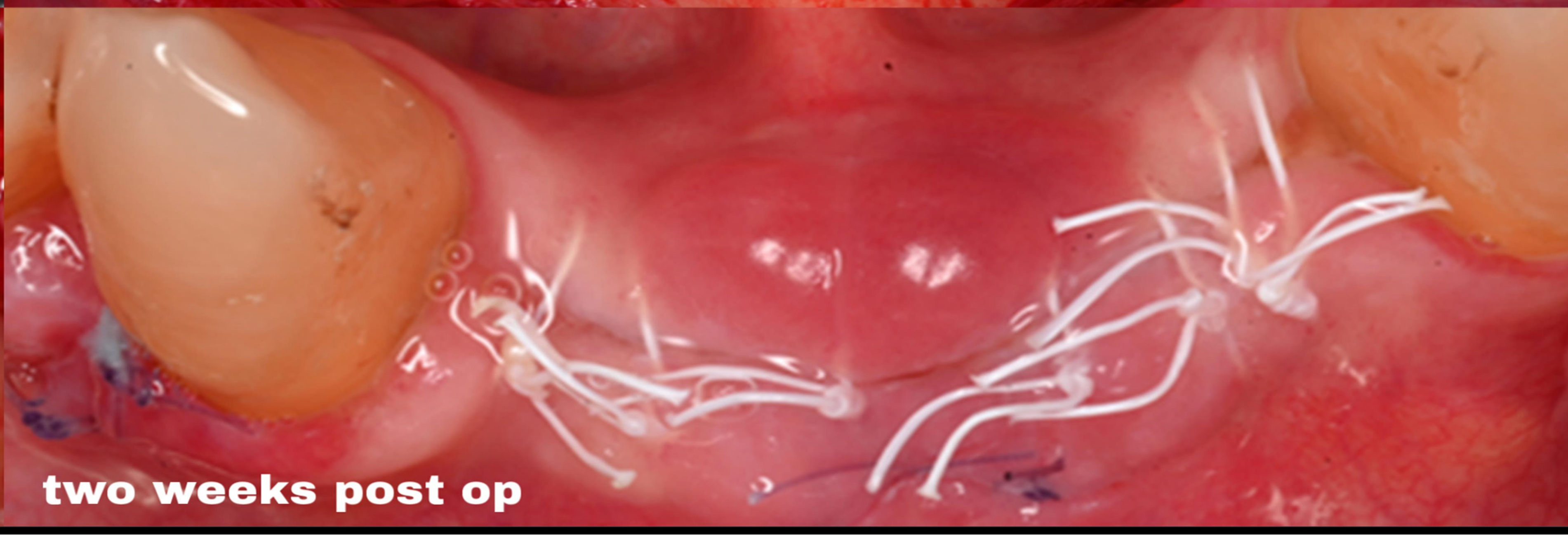


two weeks post op

GBR 6-8 weeks post extraction



Bone graft FDBA



two weeks post op

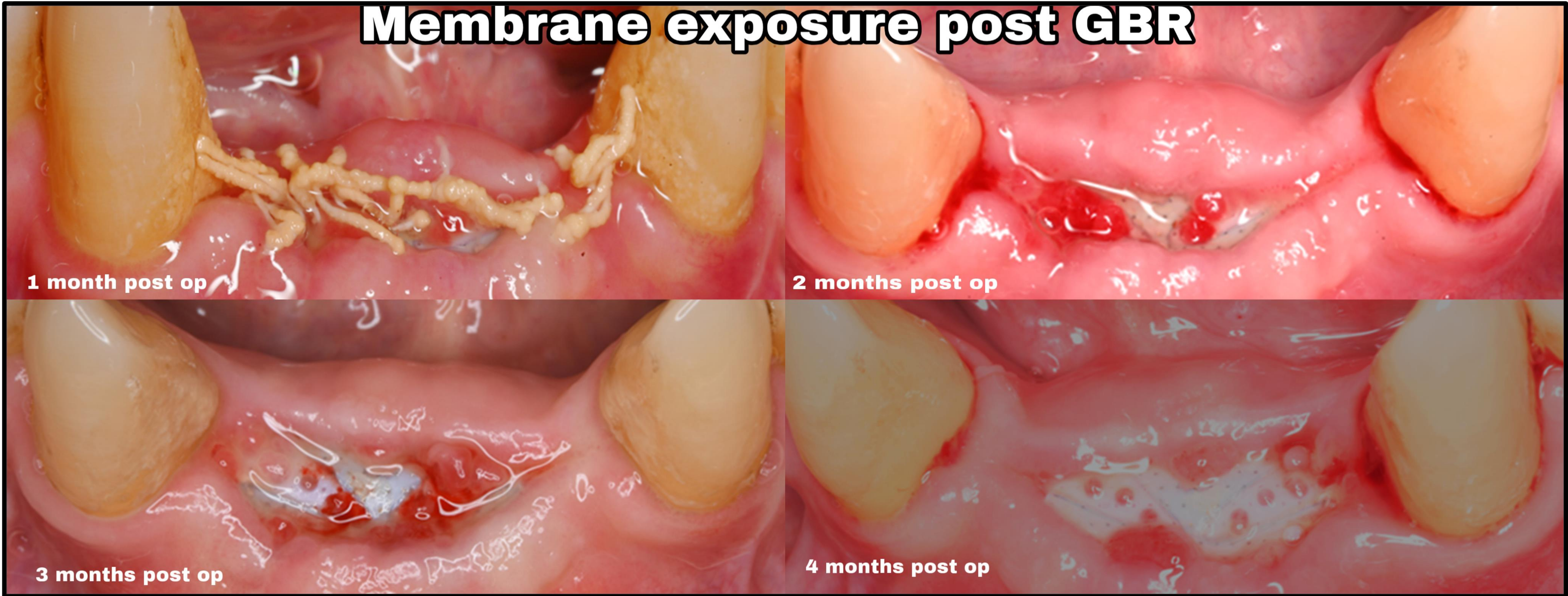
Membrane exposure post GBR

1 month post op

2 months post op

3 months post op

4 months post op



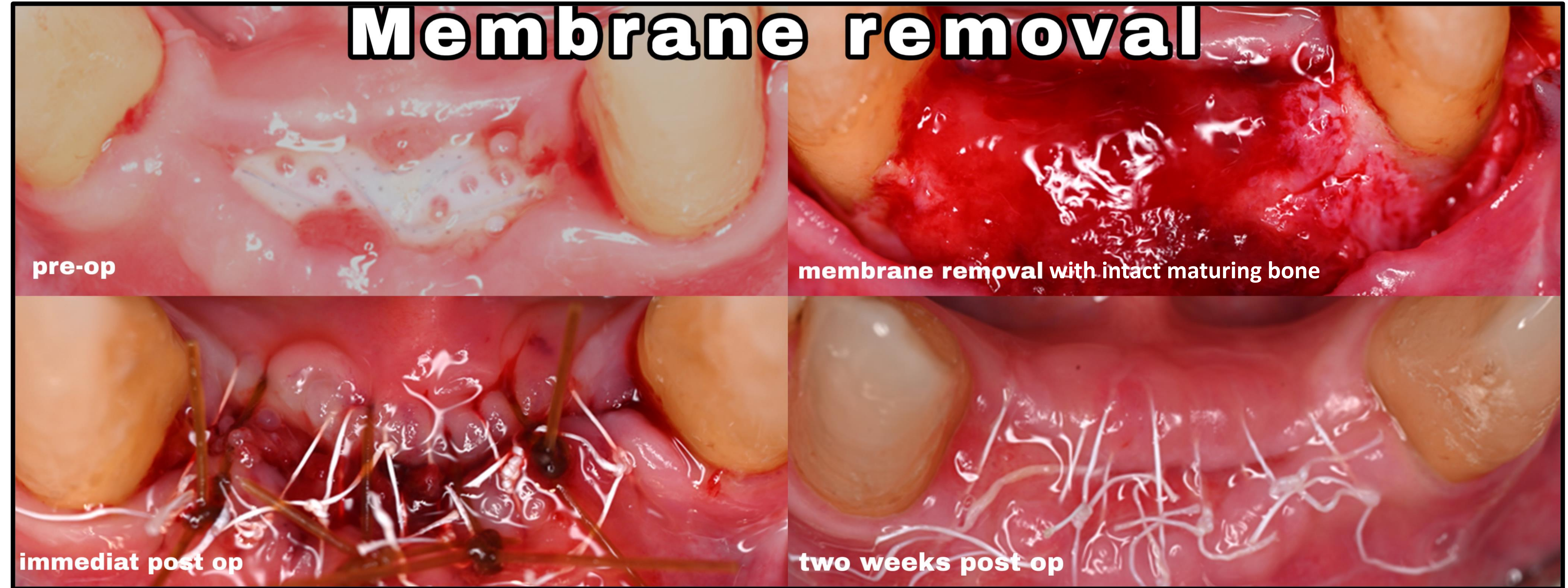
Membrane removal

pre-op

membrane removal with intact maturing bone

immediat post op

two weeks post op



Implant placement

