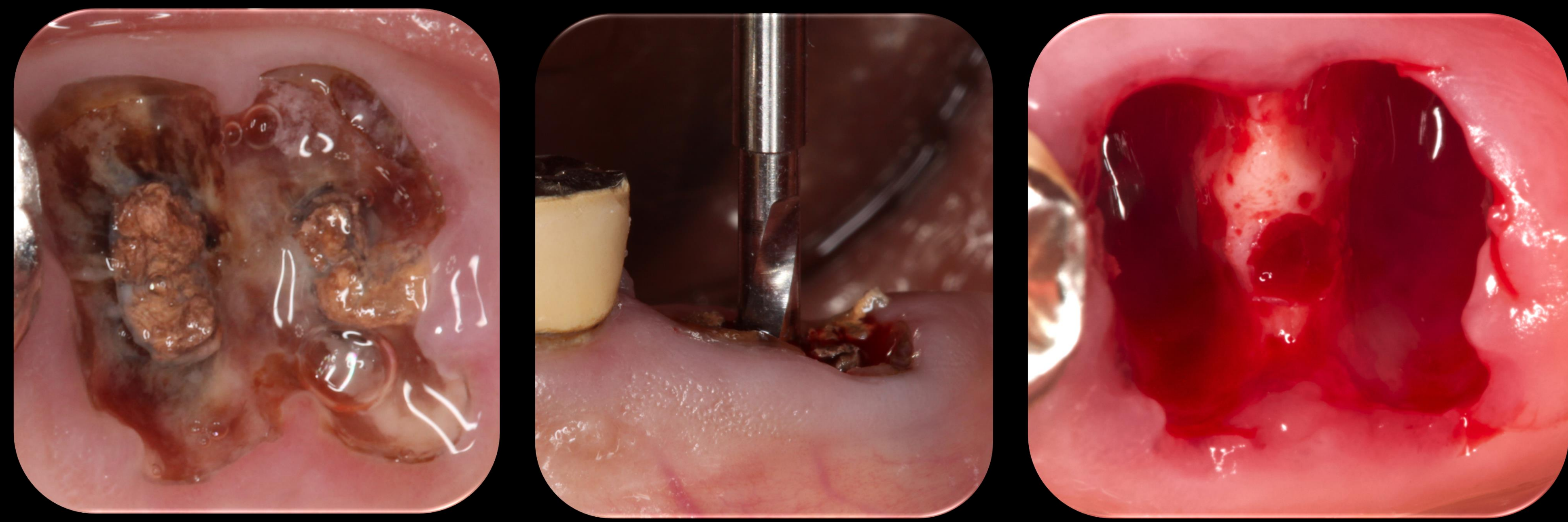
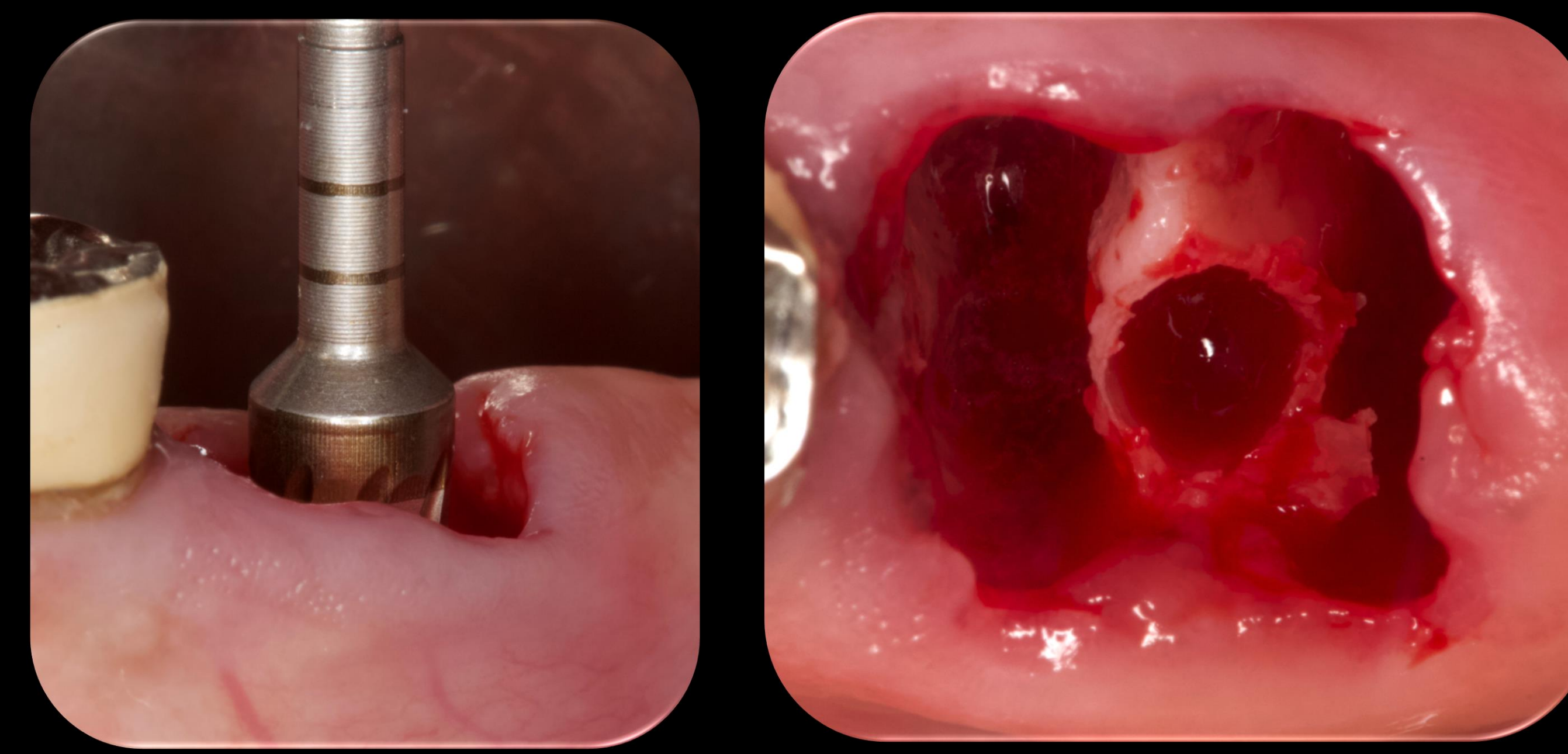
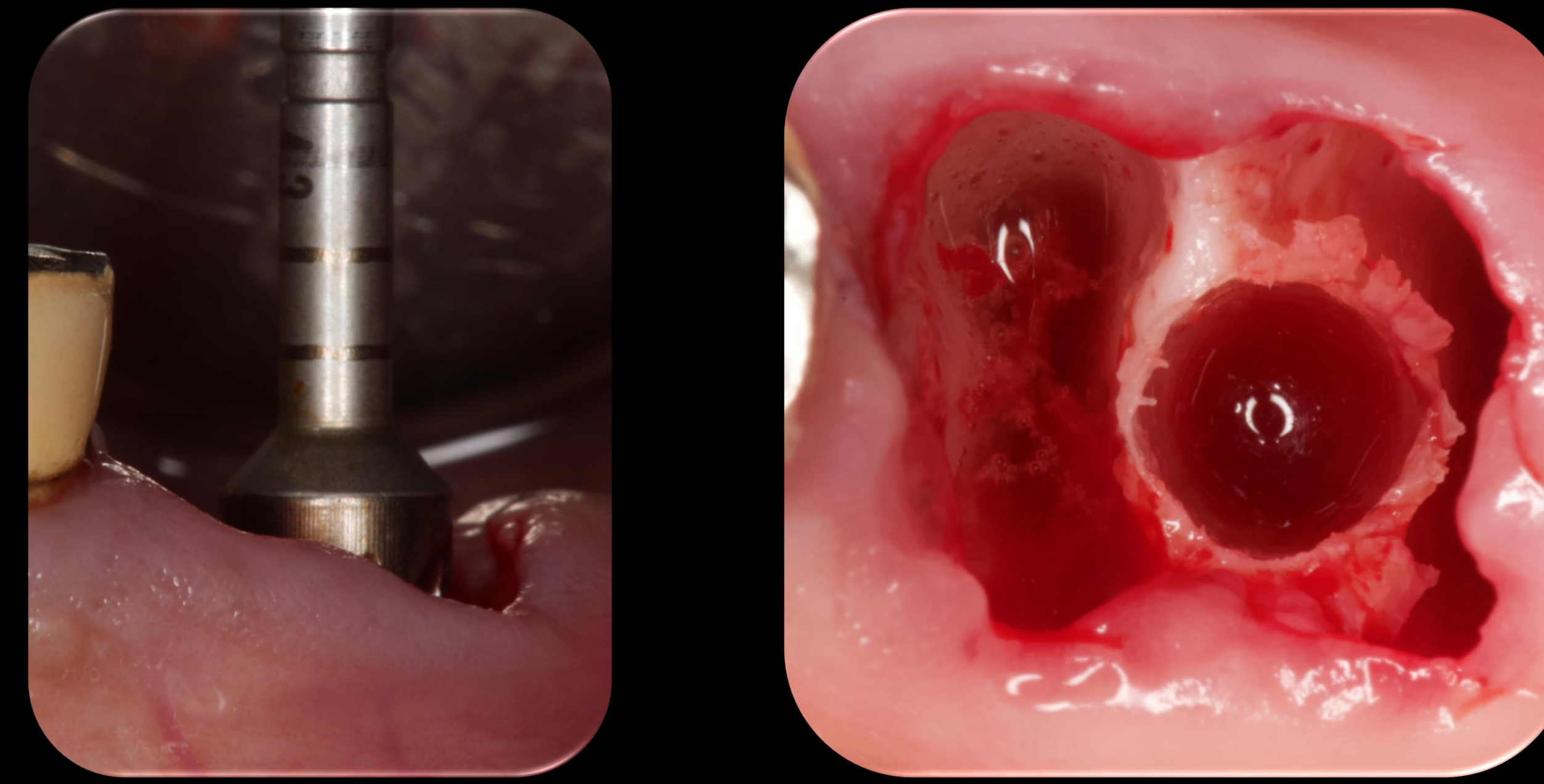
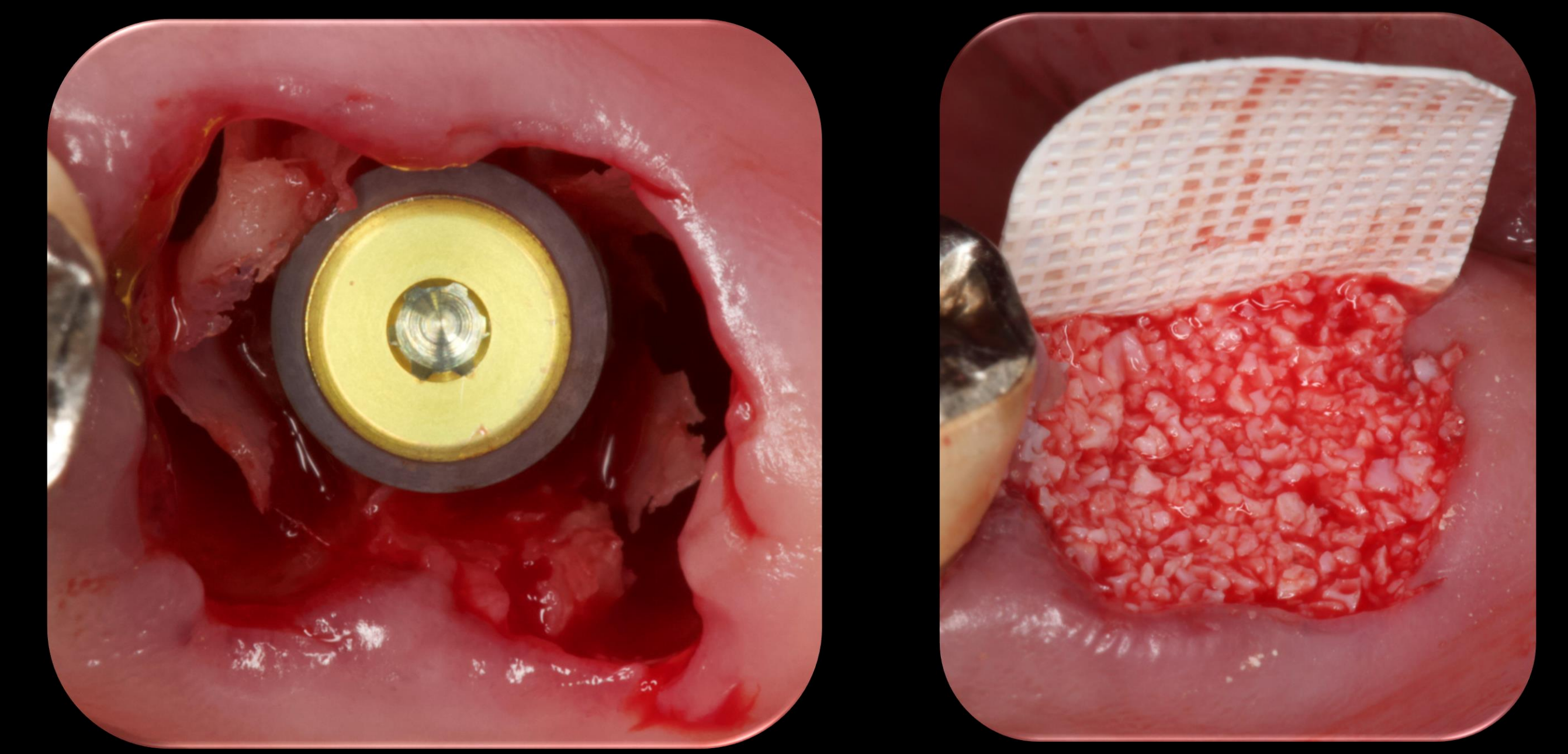
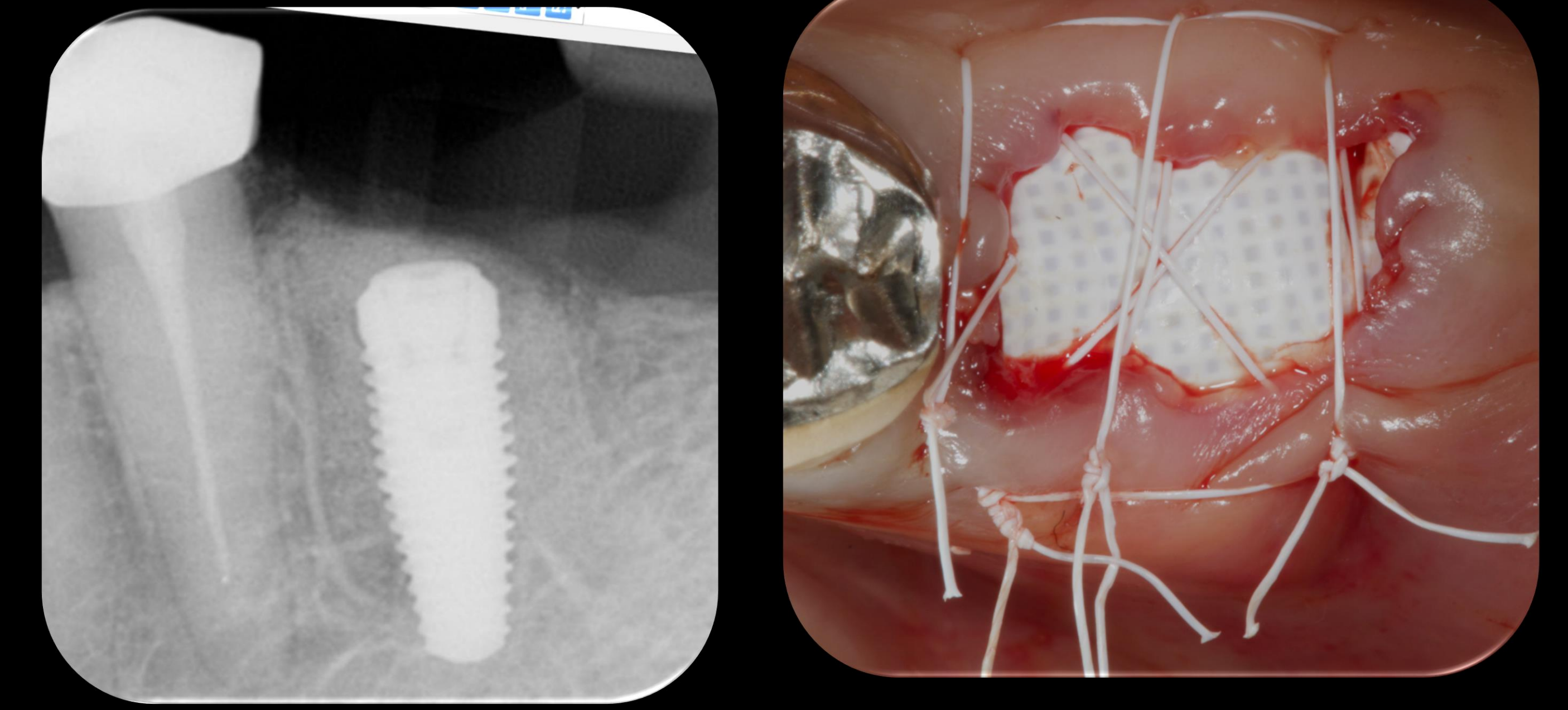


The Implementation of Osseodensification in Three Different Surgical Protocols

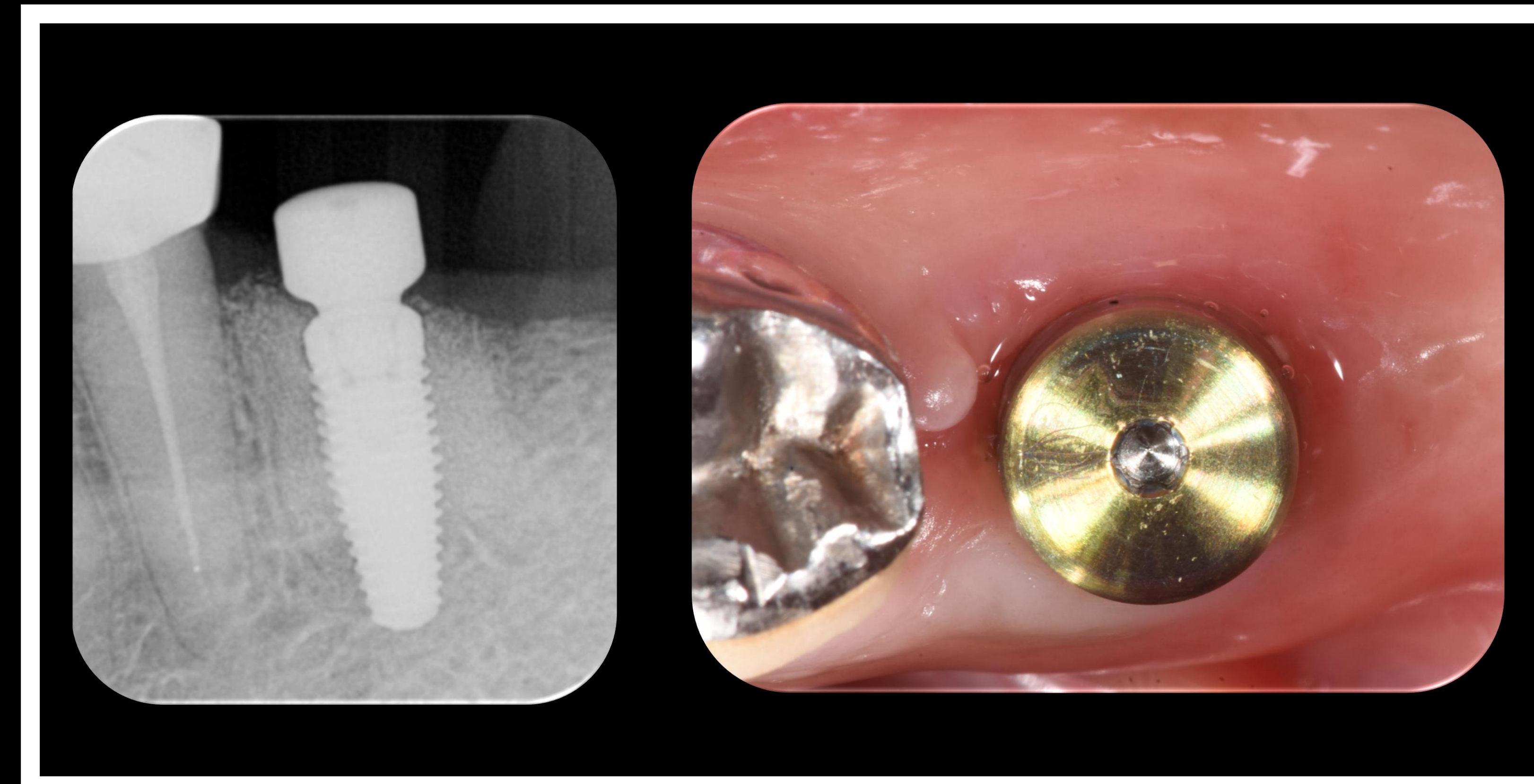
Stylianou P, Palanker N, Umoh E, Soldatos N
* *DDS, MS; Clinical Assistant Professor*



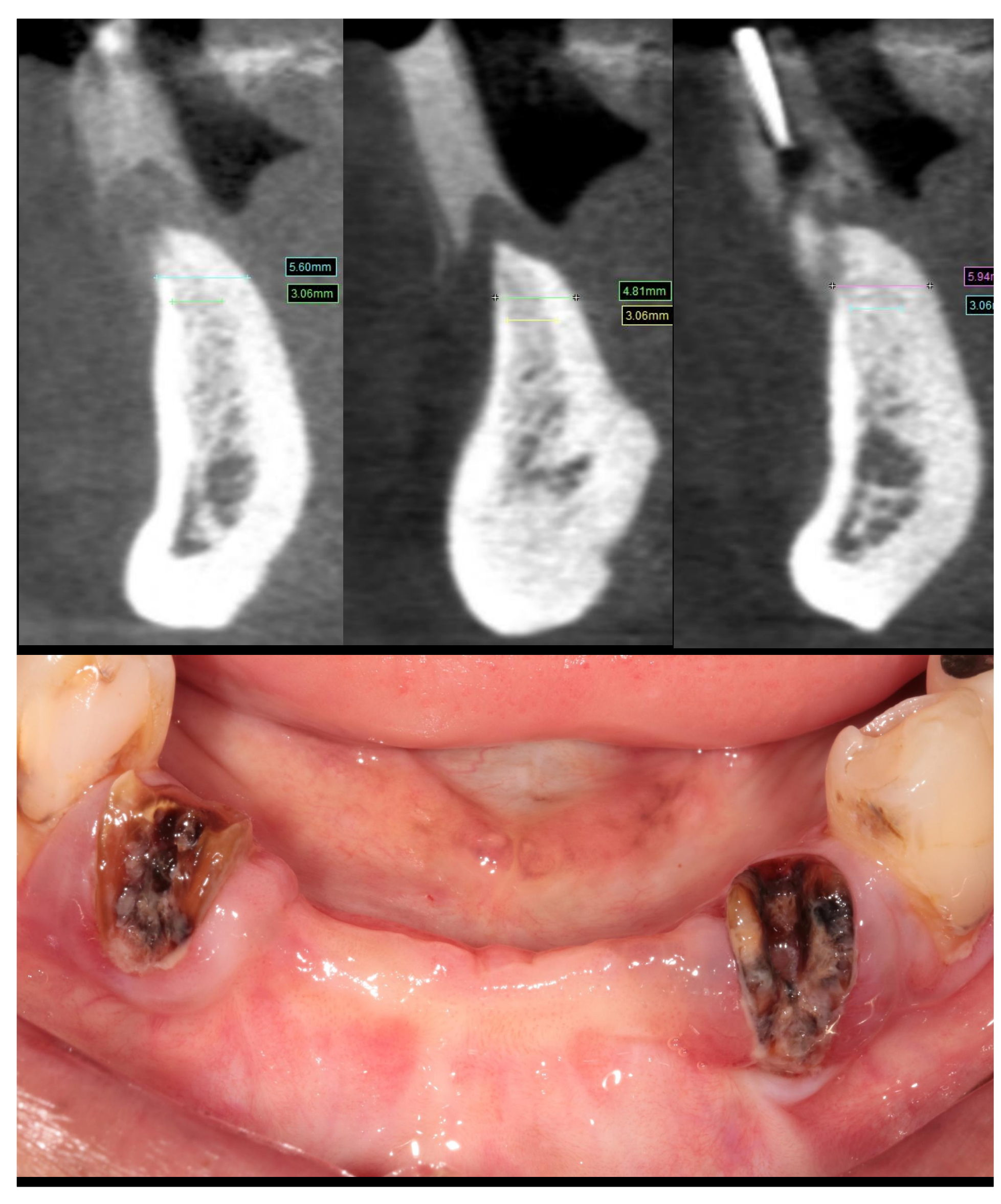
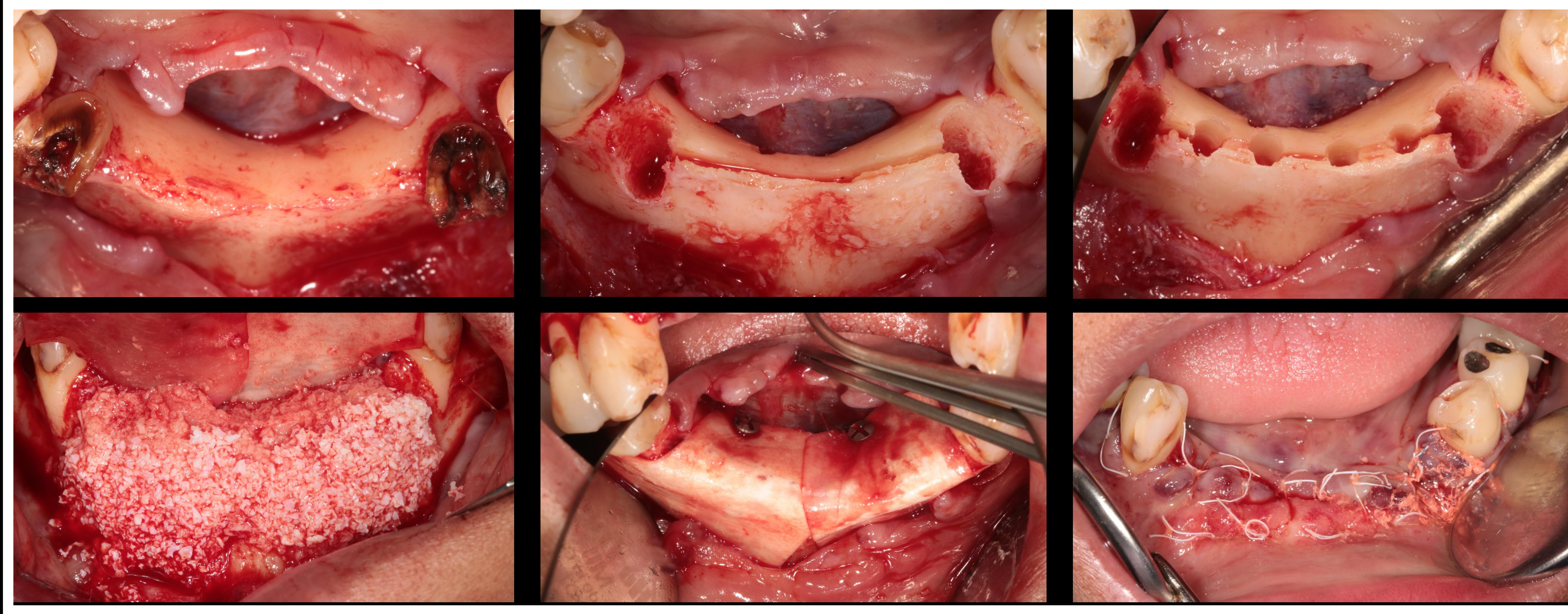
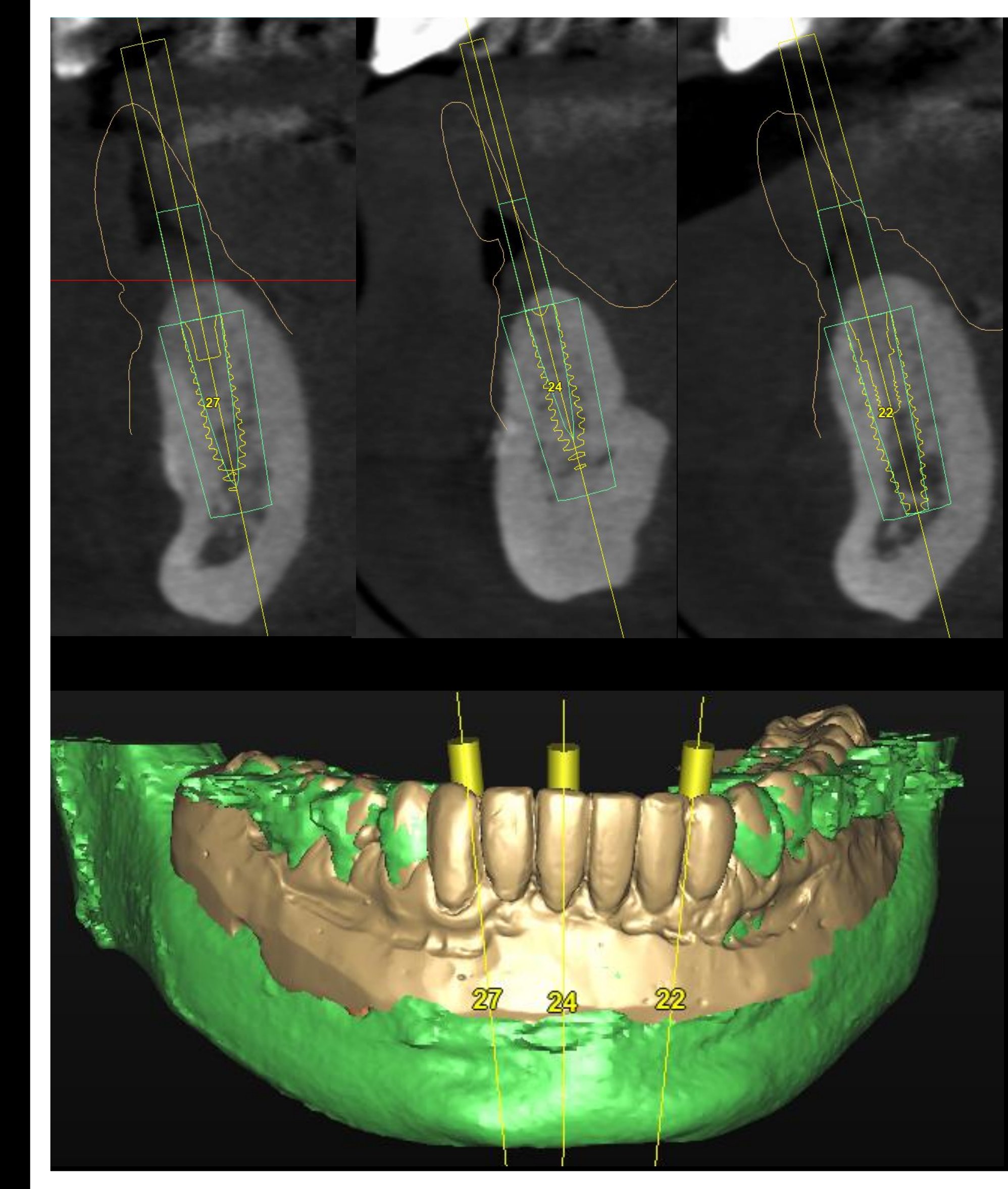
CASE REPORT 1: Extraction & Immediate implant placement



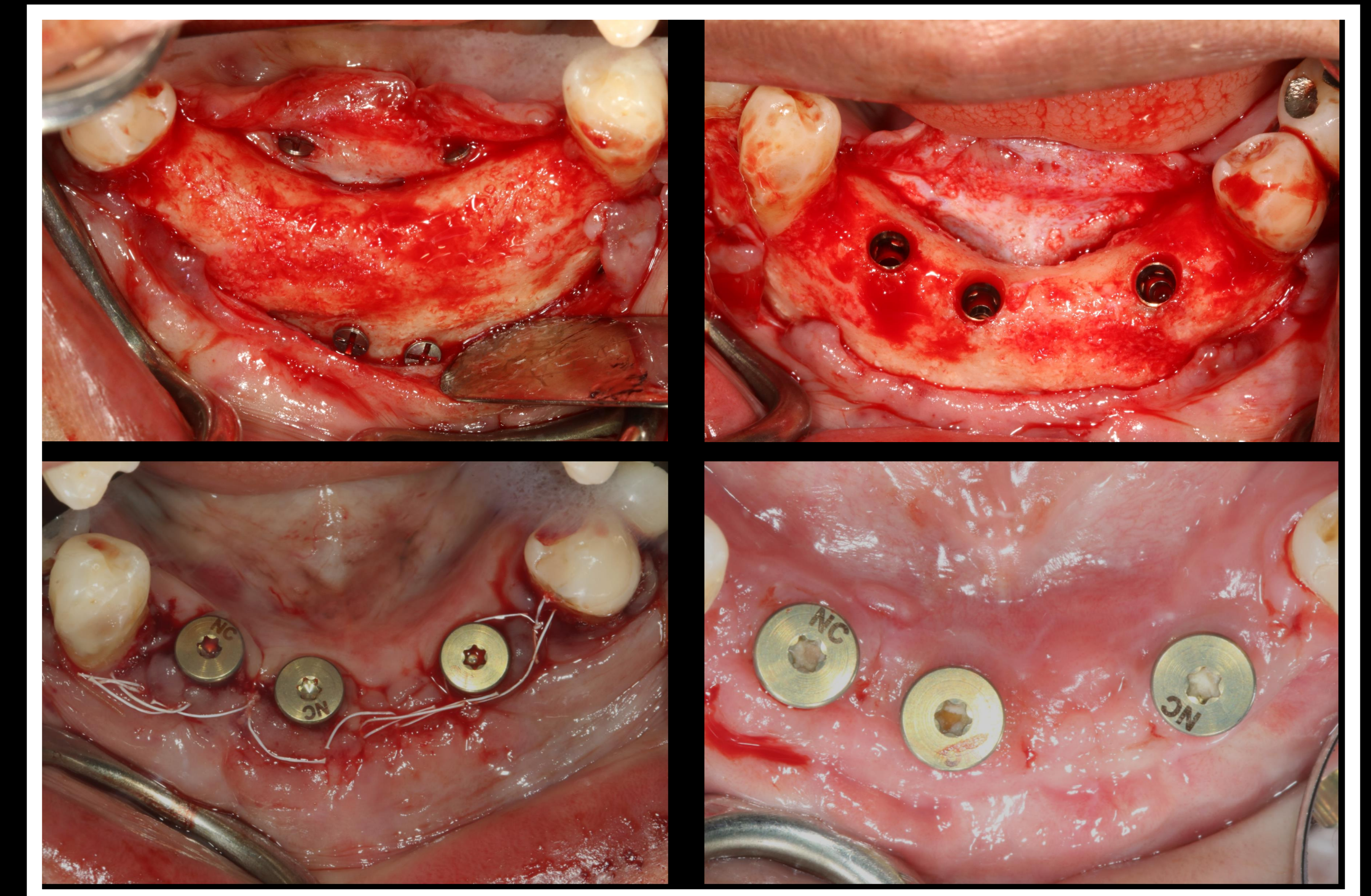
- 75-yr. old African American male ASA II
- CBCT was taken and a surgical guide was generated through virtual planning
- Extraction of #19 was completed atraumatically, followed by implementation of the molar septum expansion protocol with the osseodensification burs
- Implant 5.0 x 13 mm was placed at 35 Ncm
- Sockets were grafted using FDBA and covered with PTFE membrane to heal via secondary intention
- Second stage at 3 months



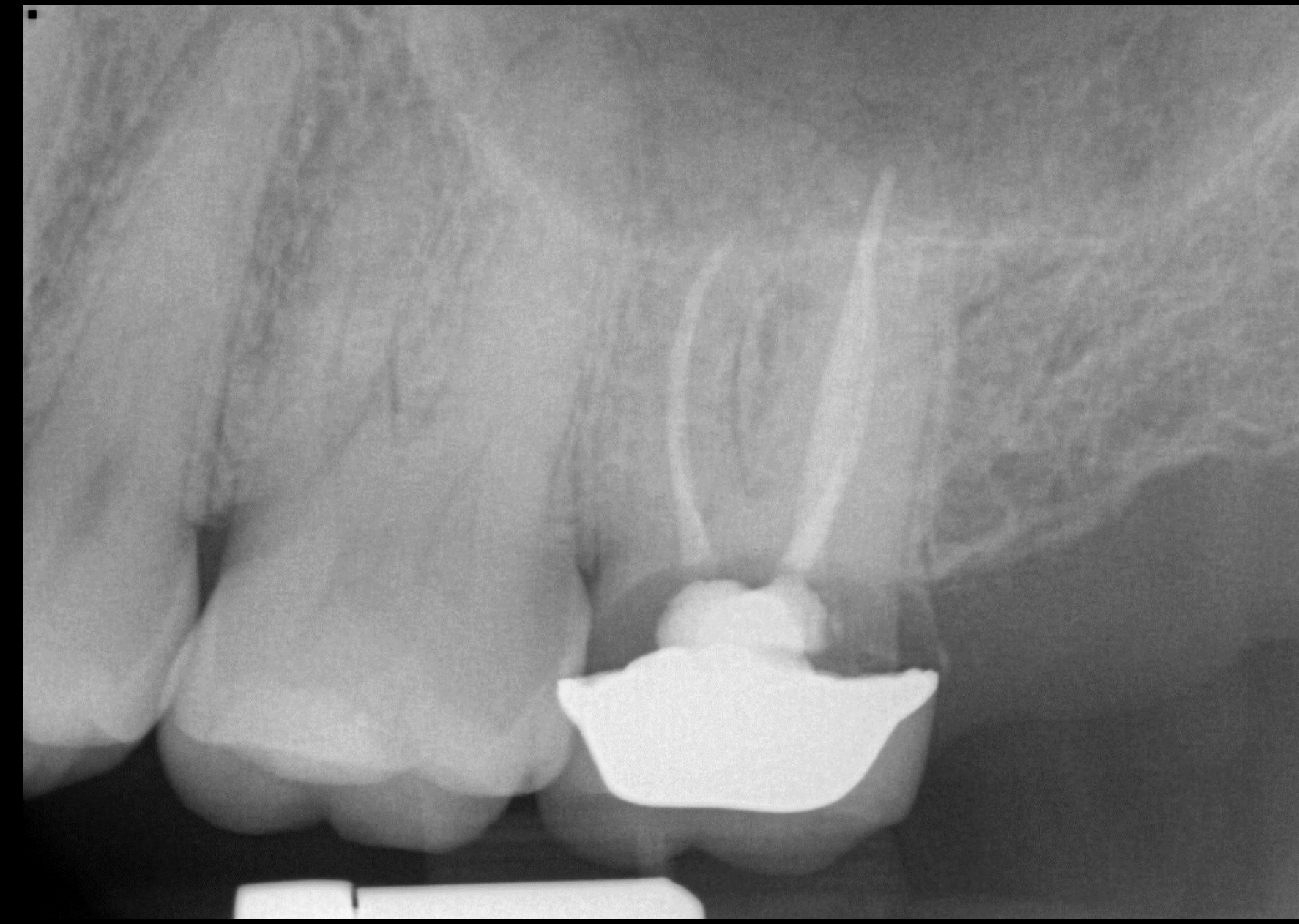
CASE REPORT 2: Ridge Split & expansion



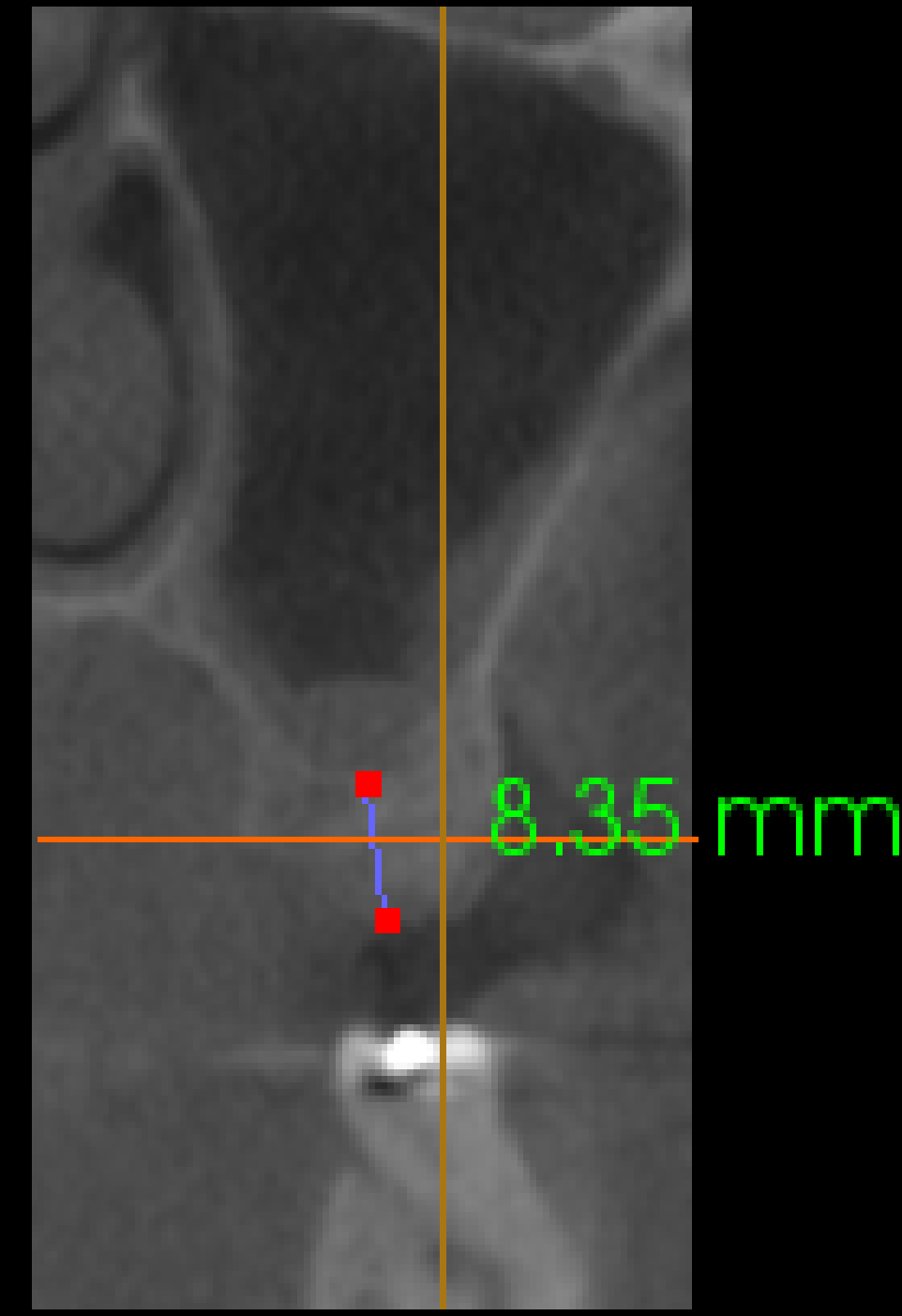
- 42-yr. old Hispanic female ASA II
- CBCT measurements showed average ridge width to be 3.50 mm at the crest with the trabecular bone width measuring 2.23 mm
- Ridge split was completed with piezotome 0.3 mm tip at 10 mm depth, followed by expansion using the osseodensification burs. Atraumatic extraction of #22 and 27 was completed. Corticotomies placed. Ridge augmentation of edentulous areas #22-27 was completed using FDBA and collagen membrane secured with tacking screws on the buccal and lingual, and primary closure was achieved
- An average of 3.0 mm increase in horizontal width was noted at 9 months with average 1.15 mm increase in trabecular bone width
- One-stage implants, at sites #22, 24 and 27, were placed fully-guided with 50 Ncm primary stability



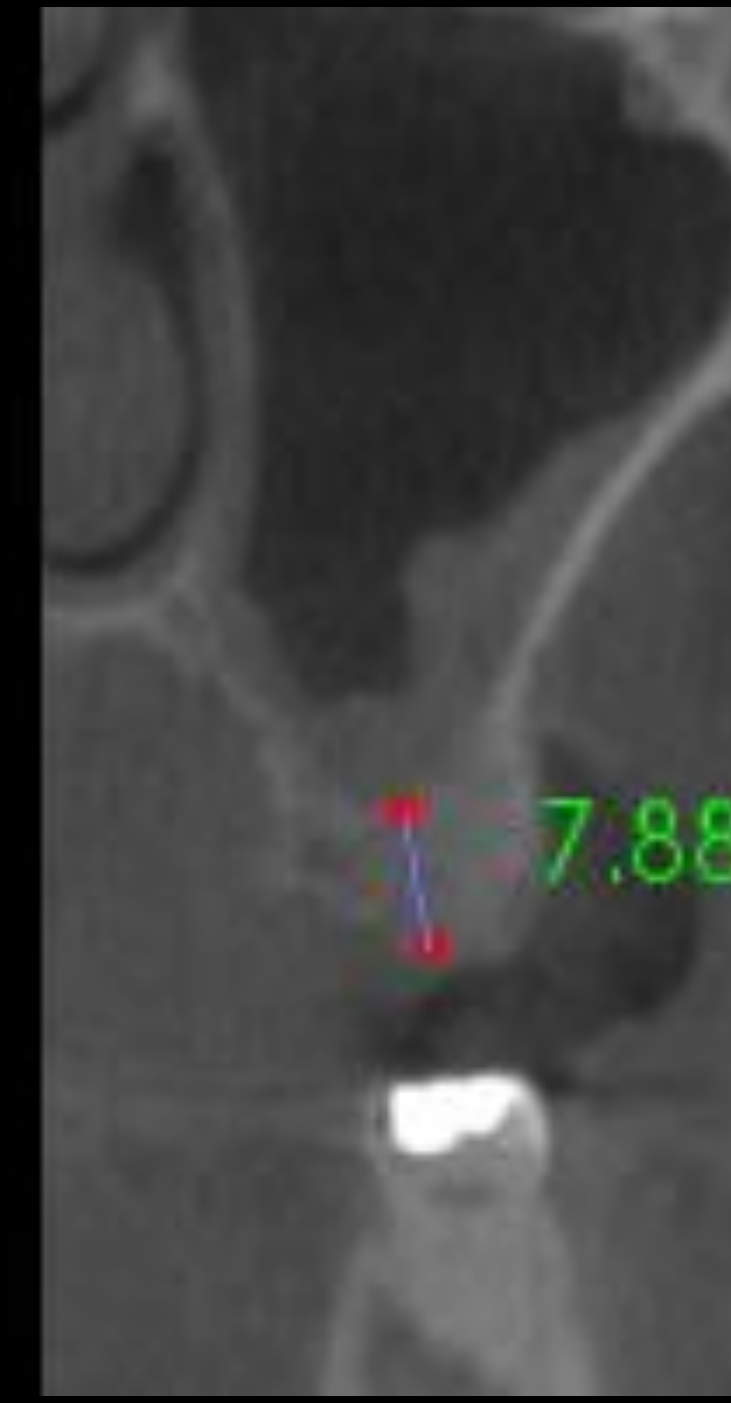
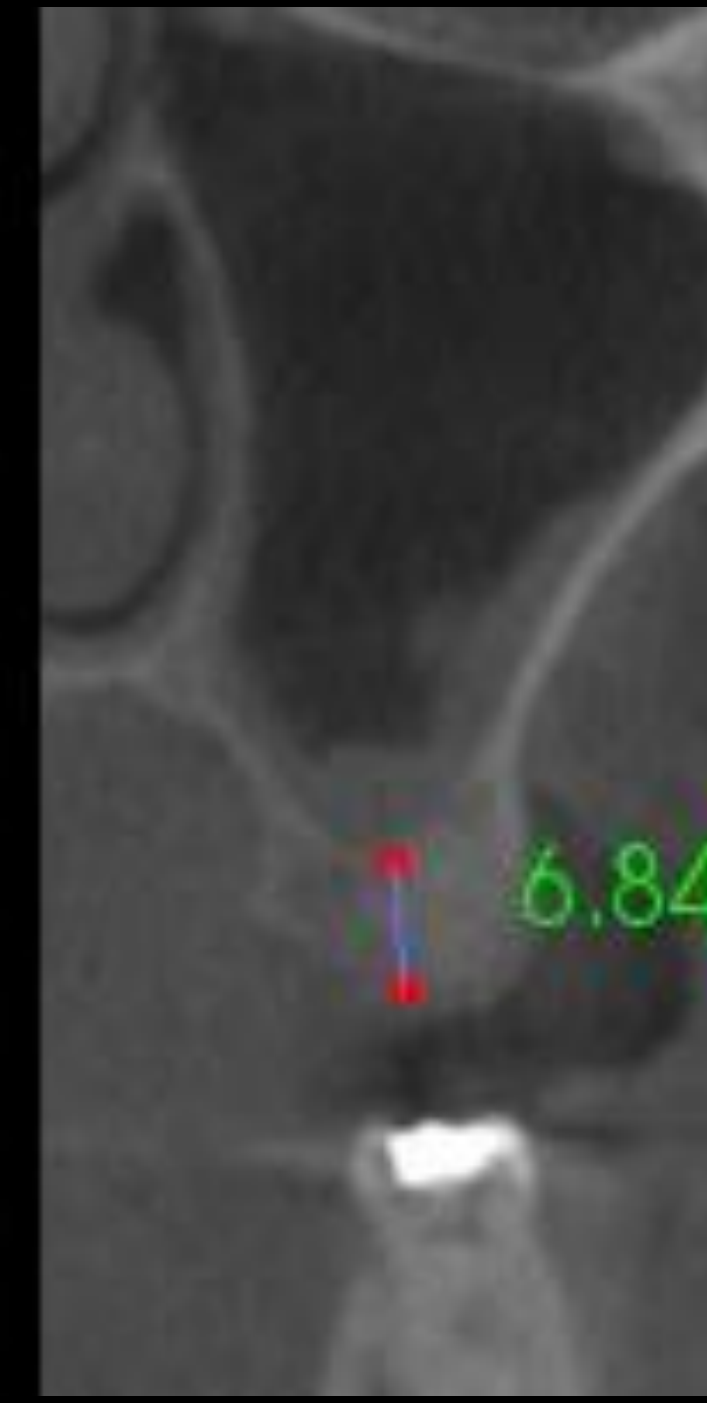
CASE REPORT 3: Vertical sinus lift



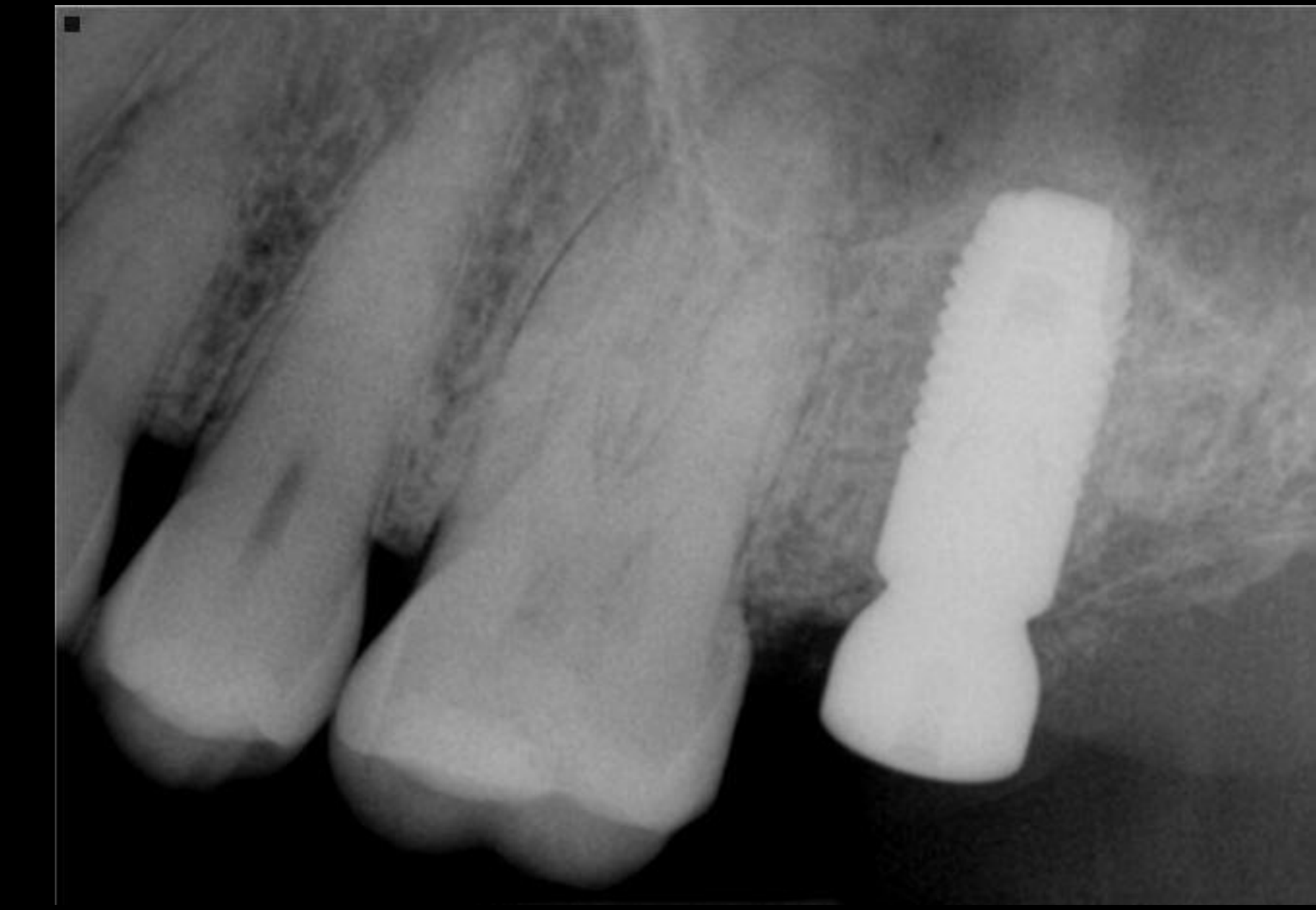
Non-restorable #15



CBCT 4 months post-extraction & ridge preservation



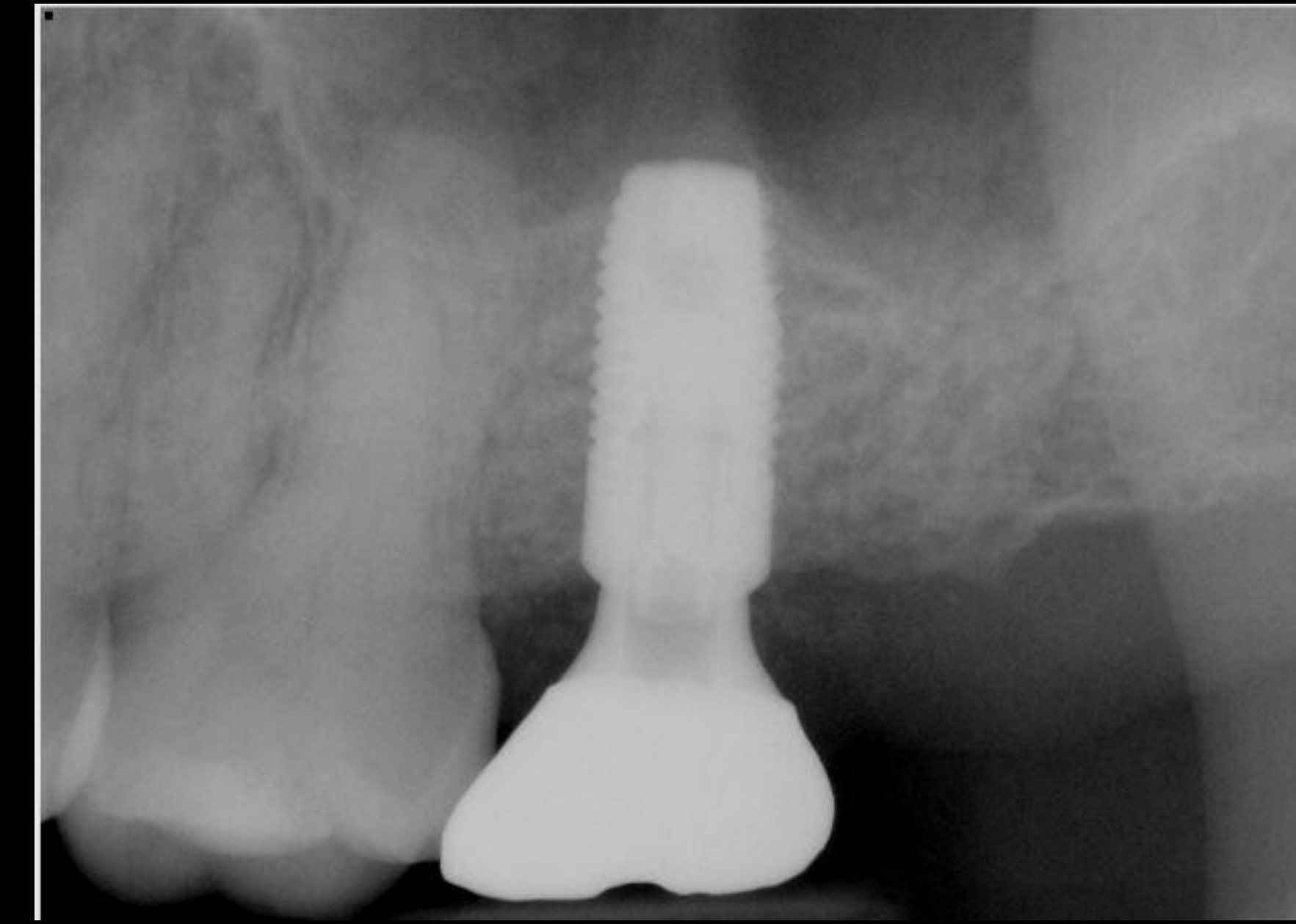
Implant surgery



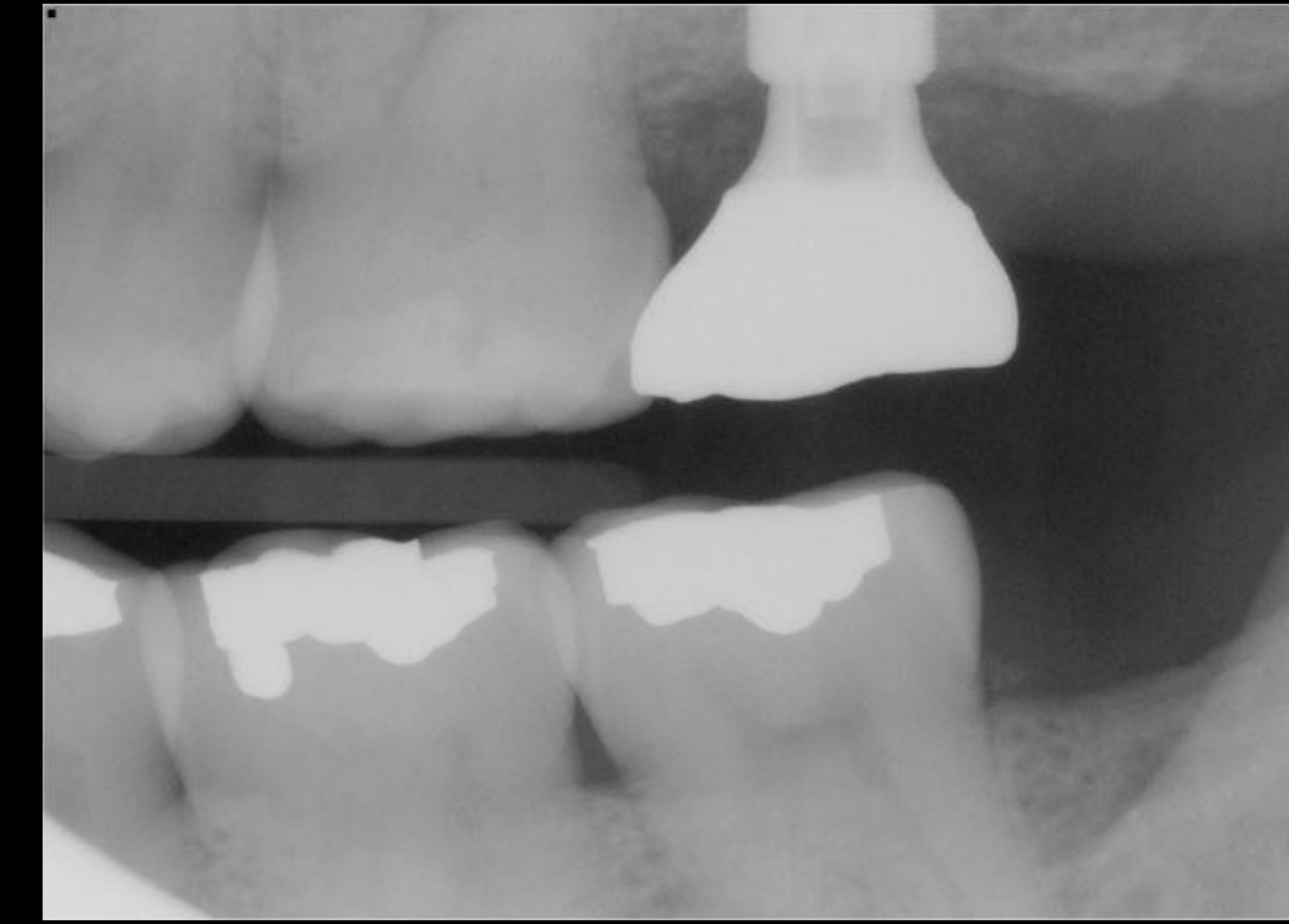
Second stage



Crown delivery – Screw retained



3- month follow-up after crown delivery



6- month follow-up

- 43-yr. old African American male ASA I
- Hopeless tooth #15 due to caries
- Extraction and ridge preservation were completed followed by CBCT 4 months later for implant planning
- Implementation of the osseodensification sinus lift protocol allowed for 5.0 mm sinus lift and implant placement of a 5.0 x 11 mm at 35 Ncm
- The implant was successfully osseointegrated at second stage surgery
- The bone graft integrated well with the native bone, and the new sinus floor reformed at the apex of the implant