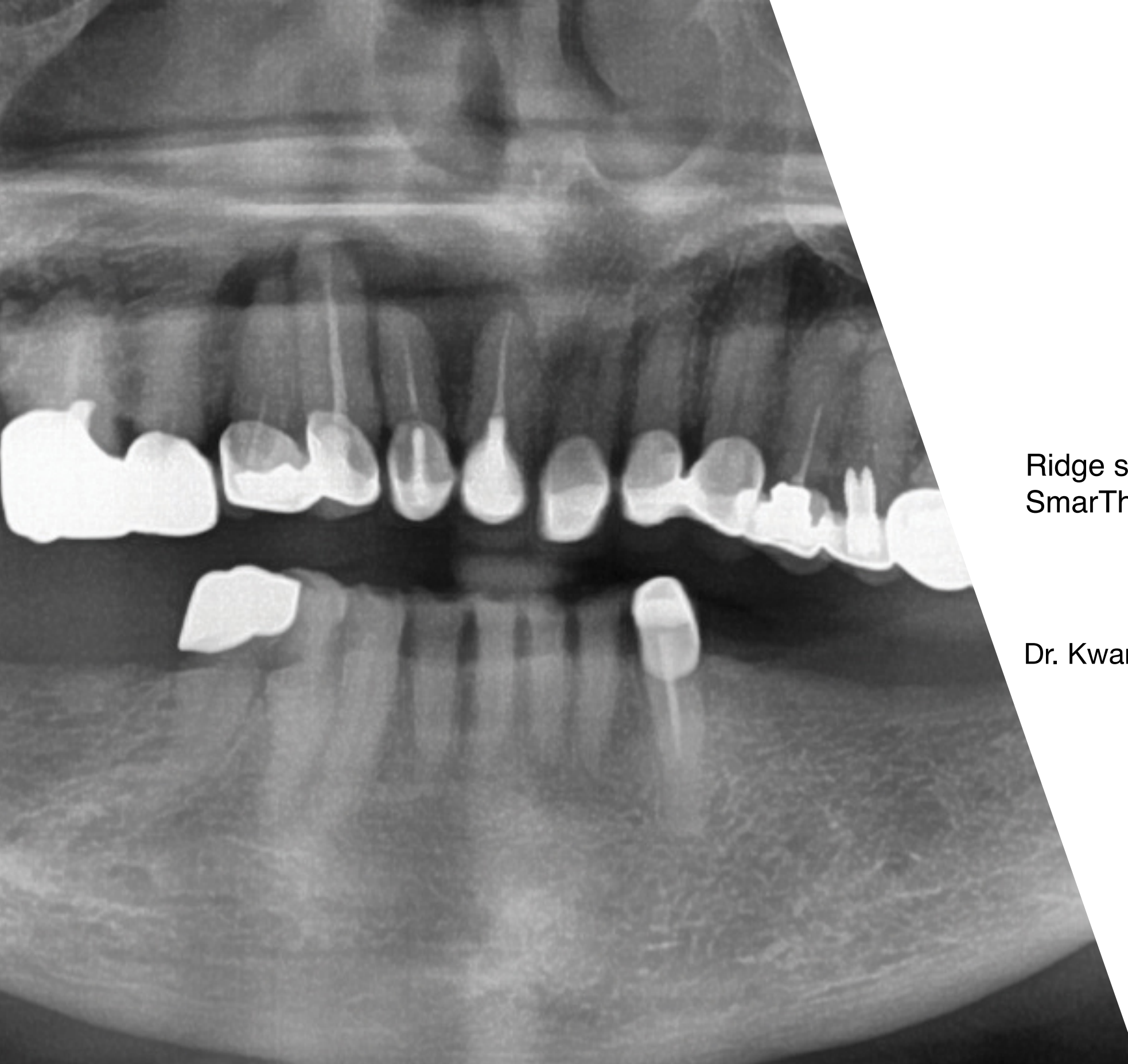
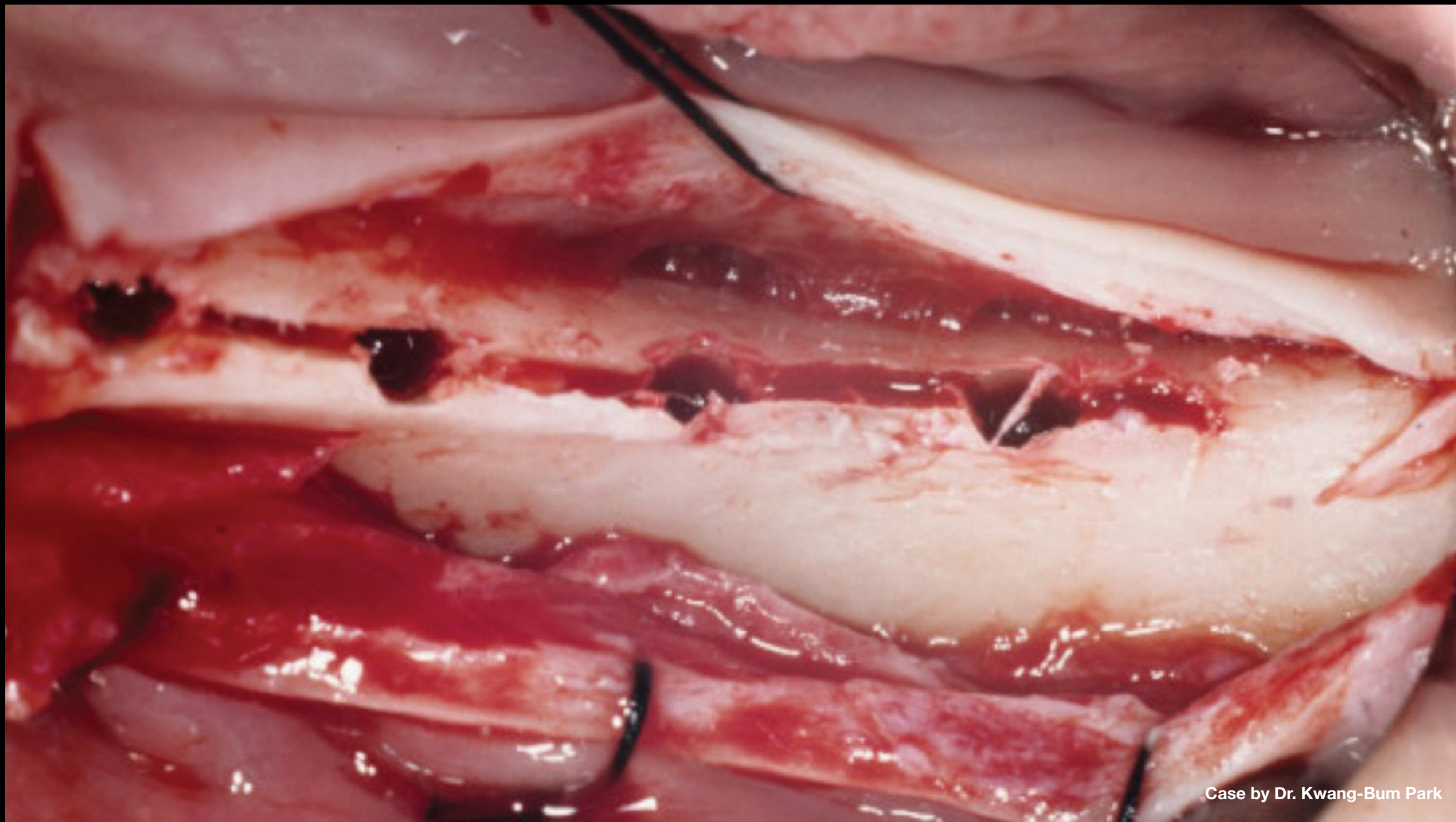




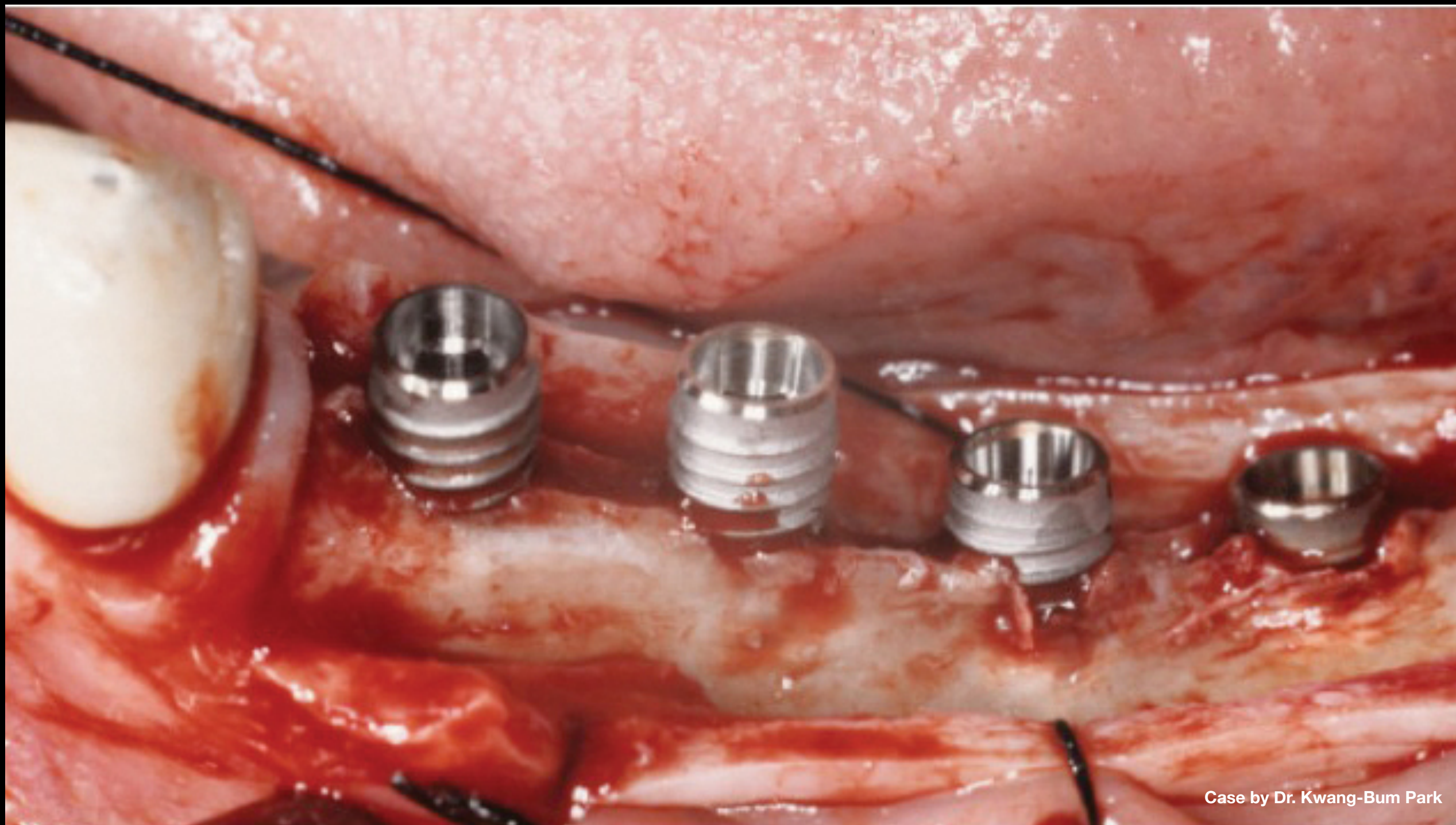
Ridge splitting technique using
SmarThor + AnyRidge as expander

Dr. Kwang-Bum Park



Case by Dr. Kwang-Bum Park

- Ridge width was about 3mm on crest
- Ridge was split using thin saw (only horizontally to depth of implant length (11.5, 10, 8.5 & 7mm from front to back, respectively), followed by 2mm lance drilling
- Compare drilling site with ridge width



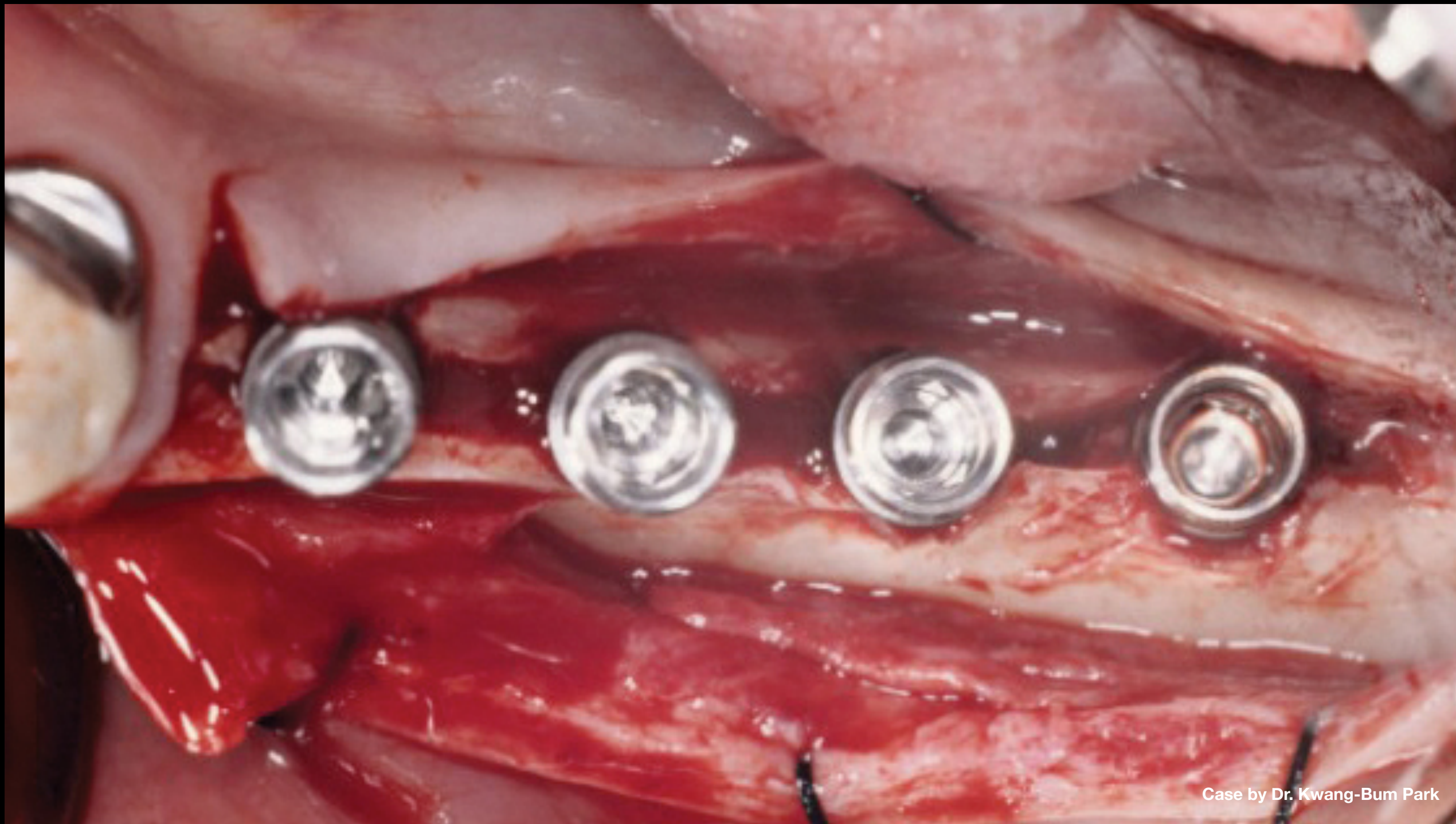
Case by Dr. Kwang-Bum Park

- Fixtures were initially placed using handpiece set at 40 Ncm torque force
- Fixtures were then screwed in further using torque wrench, one full turn on each fixture sequentially



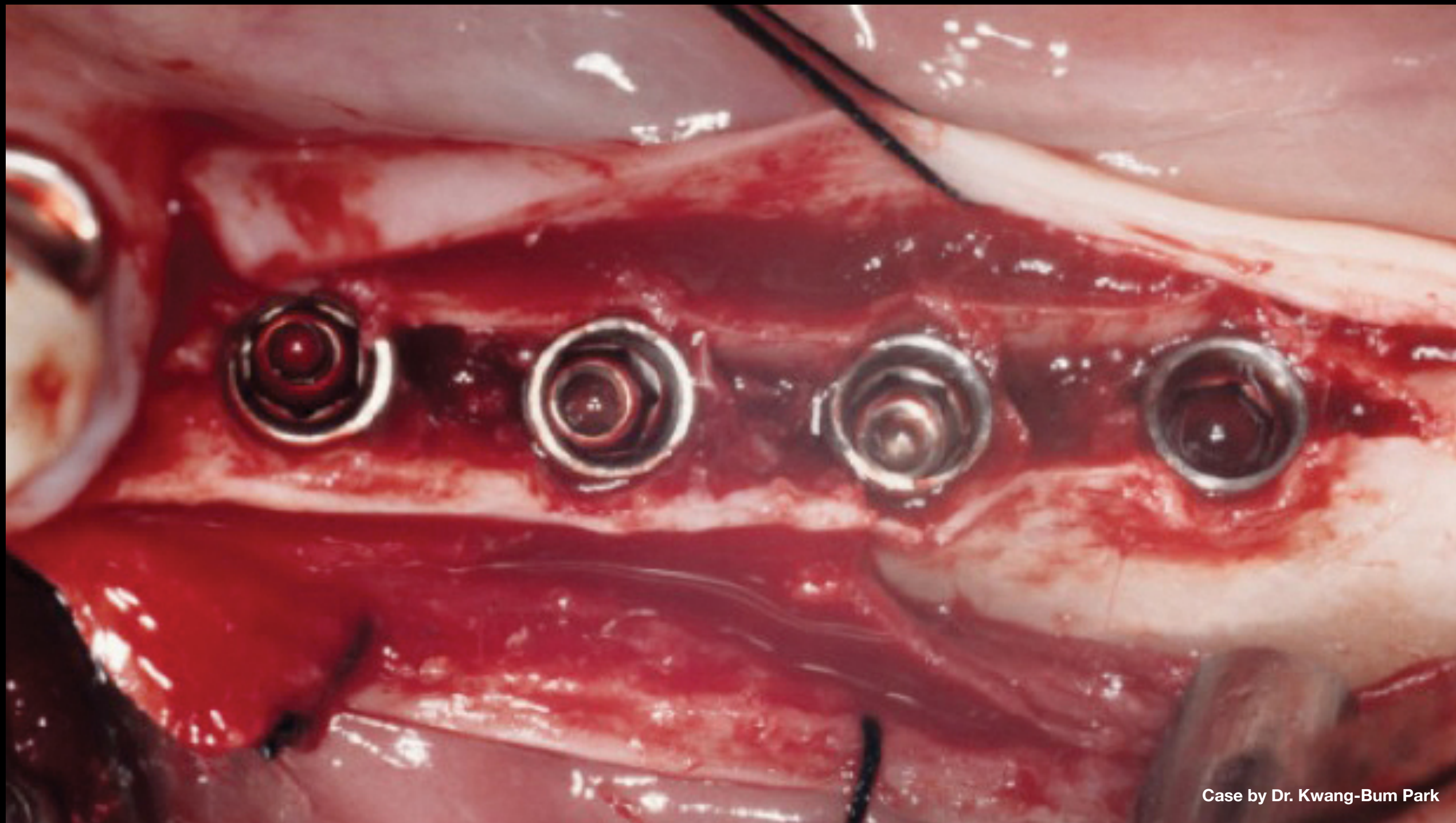
Case by Dr. Kwang-Bum Park

All fixtures were placed 1 mm under crest in consideration of bone remodeling



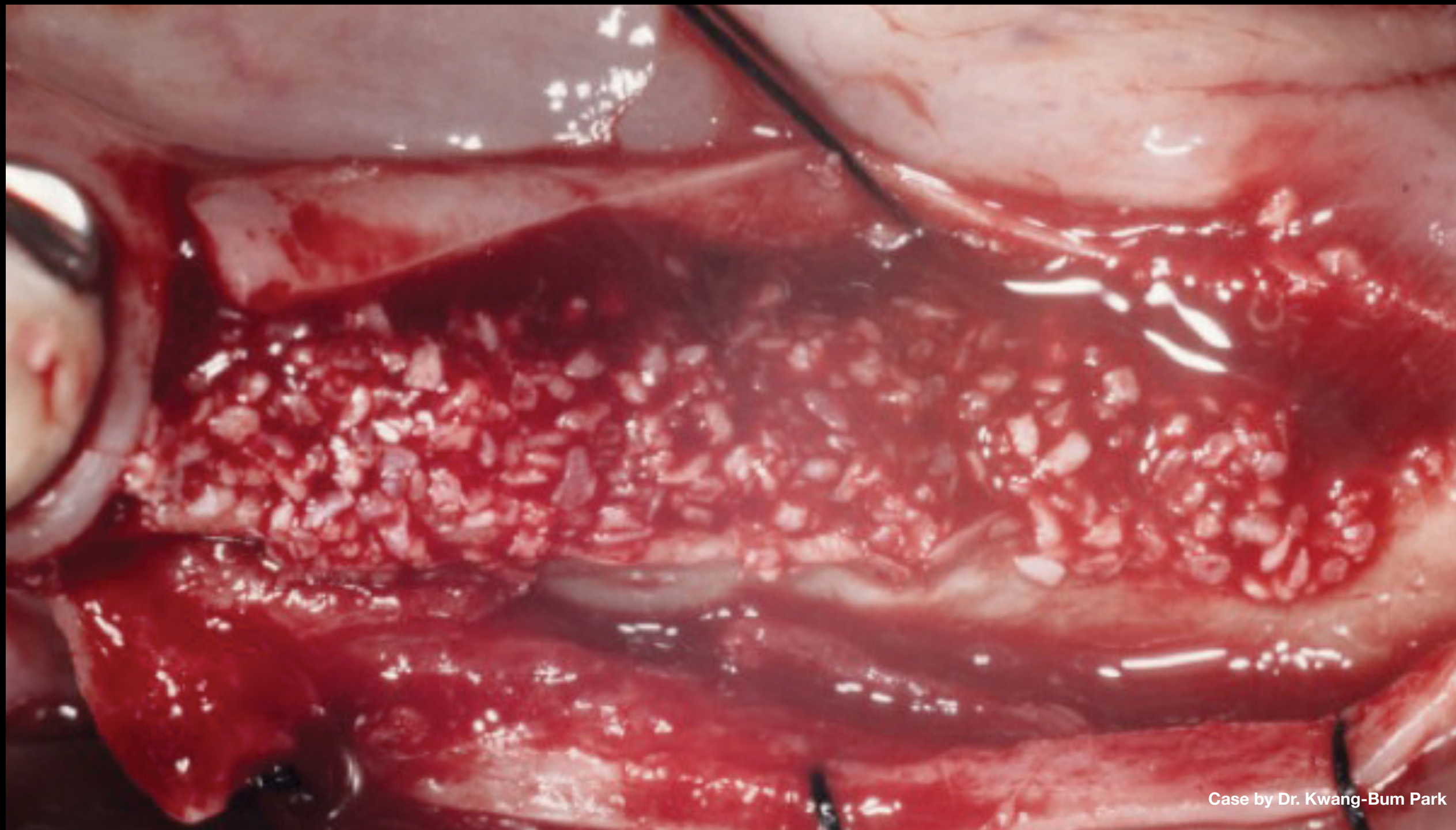
Case by Dr. Kwang-Bum Park

Crestal bone was only split enough to create ideal width



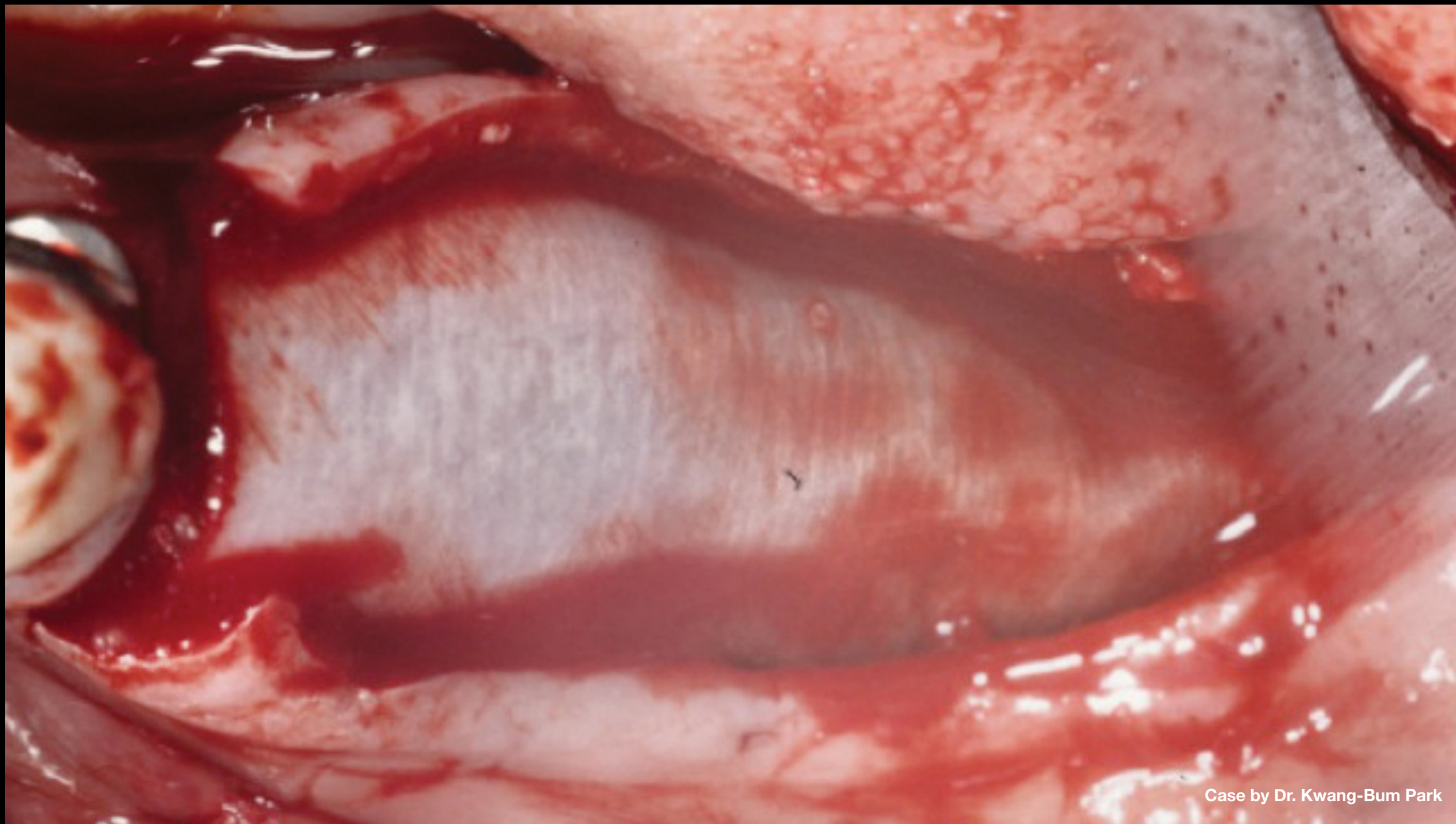
Case by Dr. Kwang-Bum Park

Crestal bone was only split enough to create ideal width



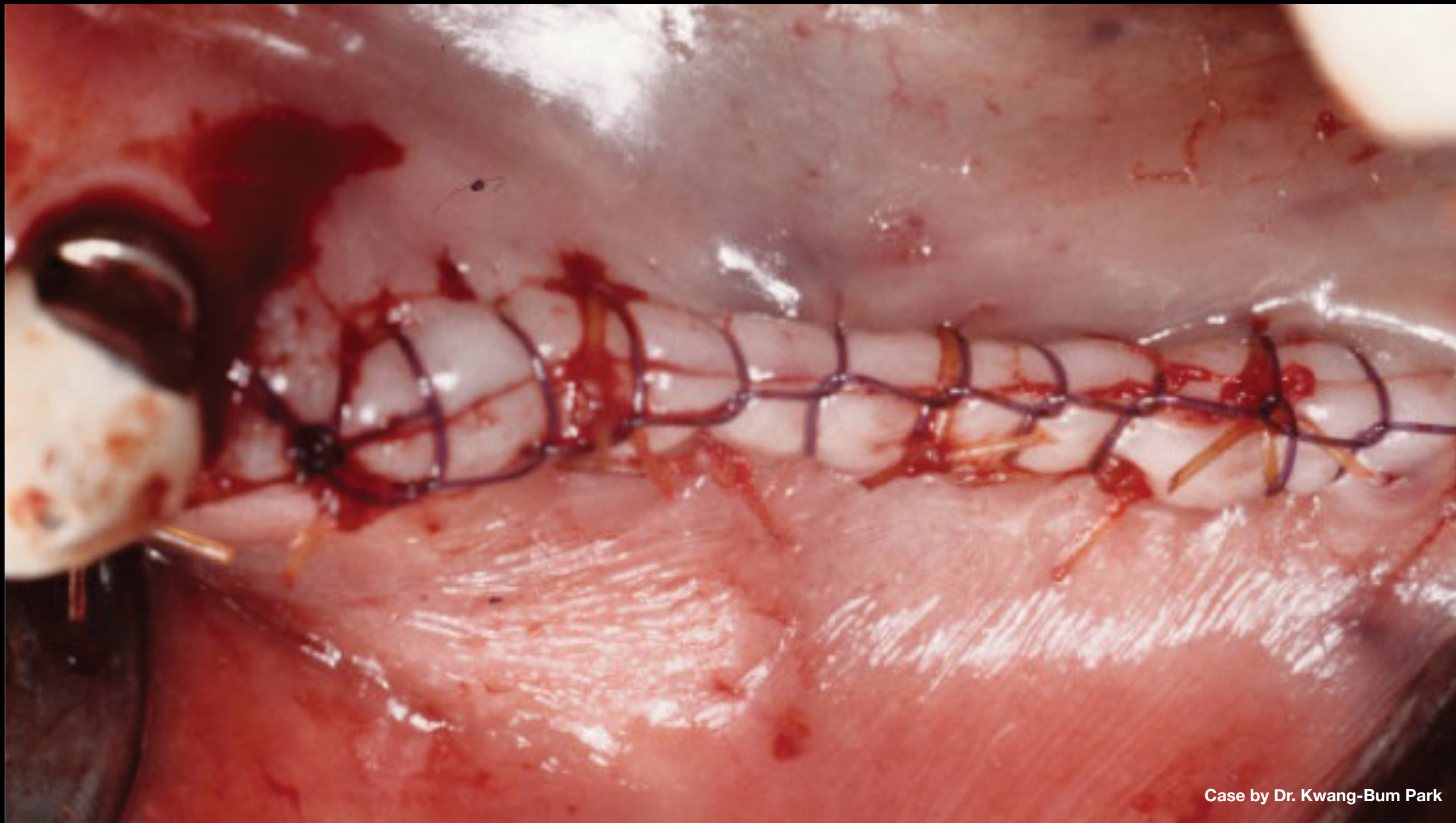
Case by Dr. Kwang-Bum Park

Gap defect was filled with Mega-Oss allograft



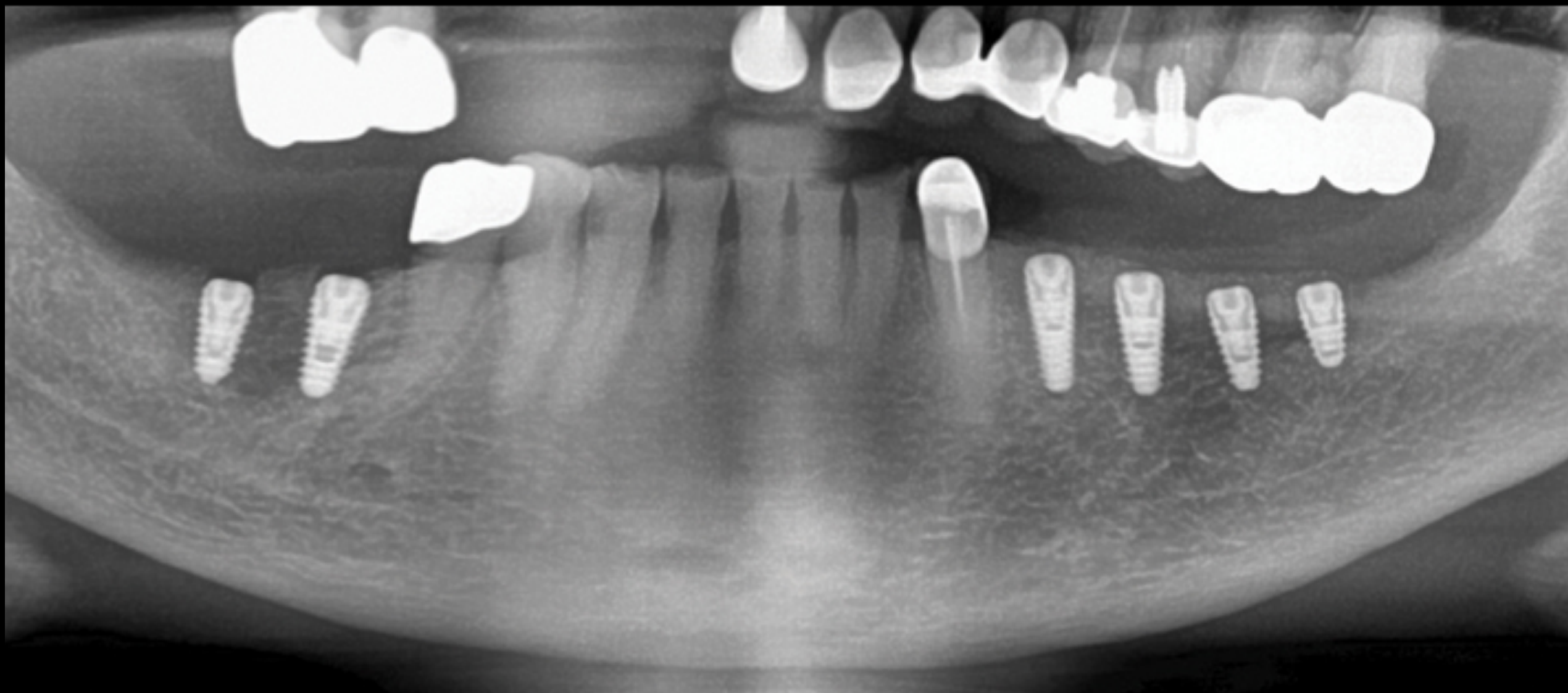
Case by Dr. Kwang-Bum Park

Covered with collagen membrane



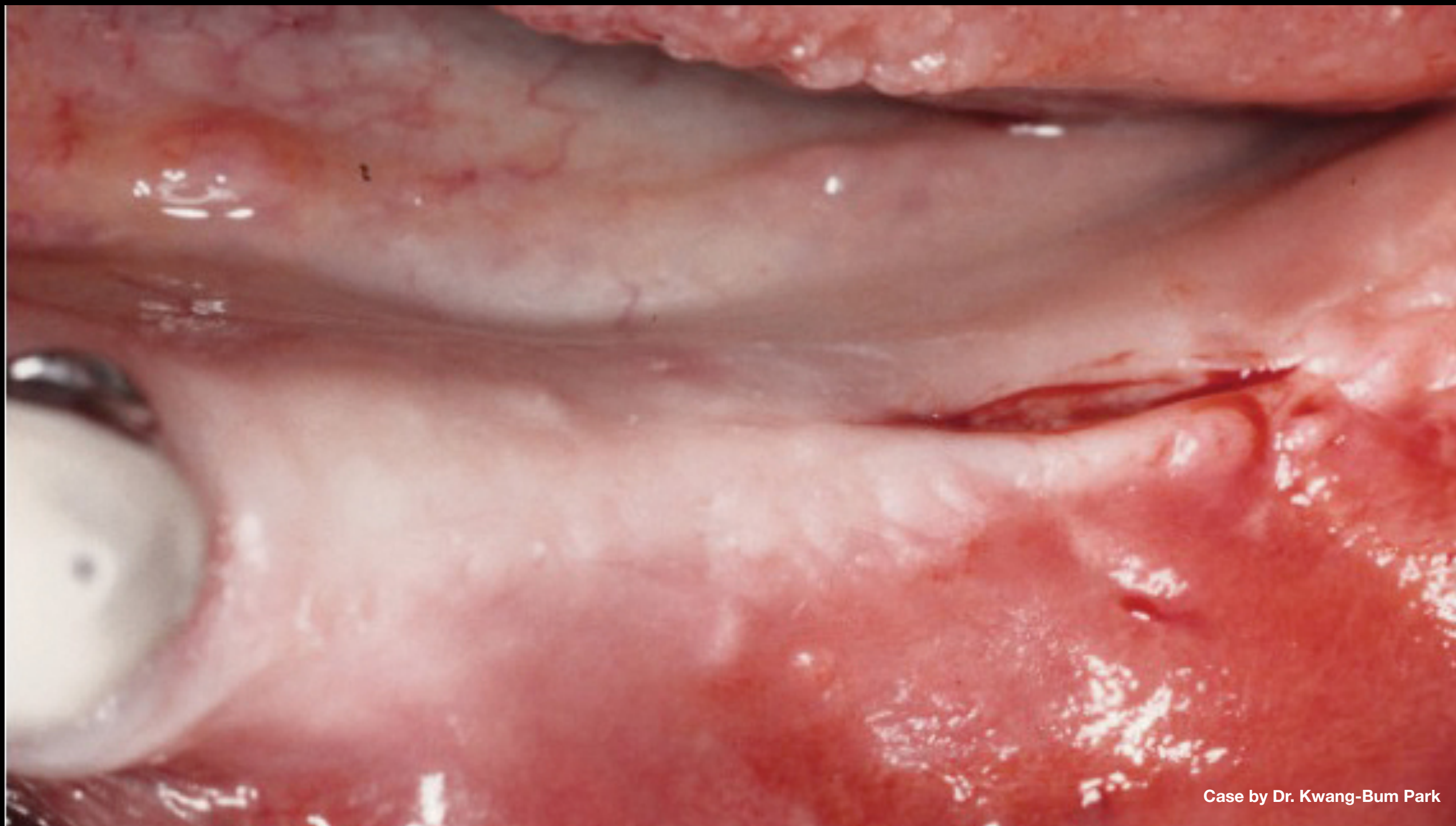
Case by Dr. Kwang-Bum Park

Primary closure



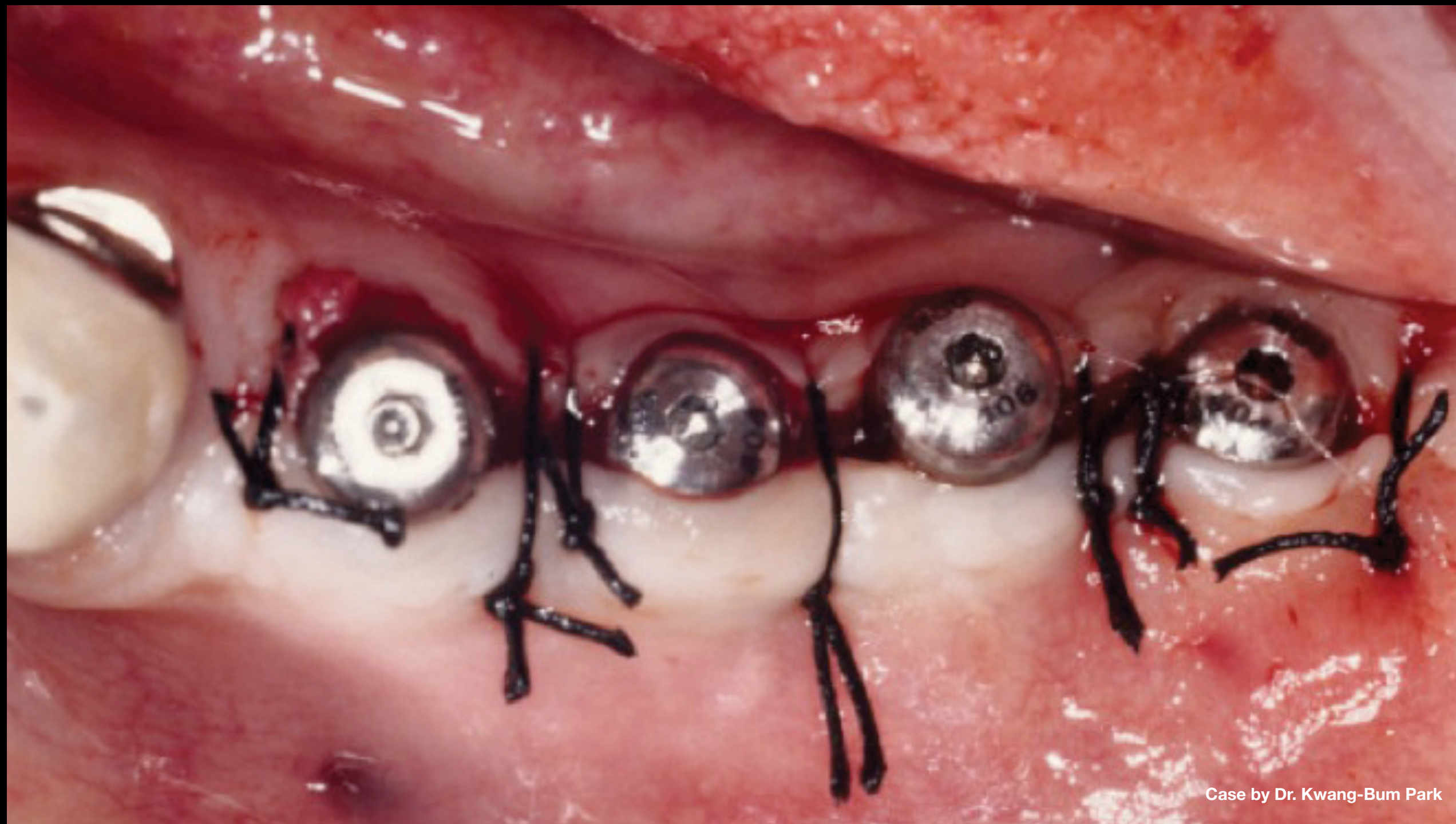
Case by Dr. Kwang-Bum Park

Postoperative panoramic radiograph, both sides received same procedure



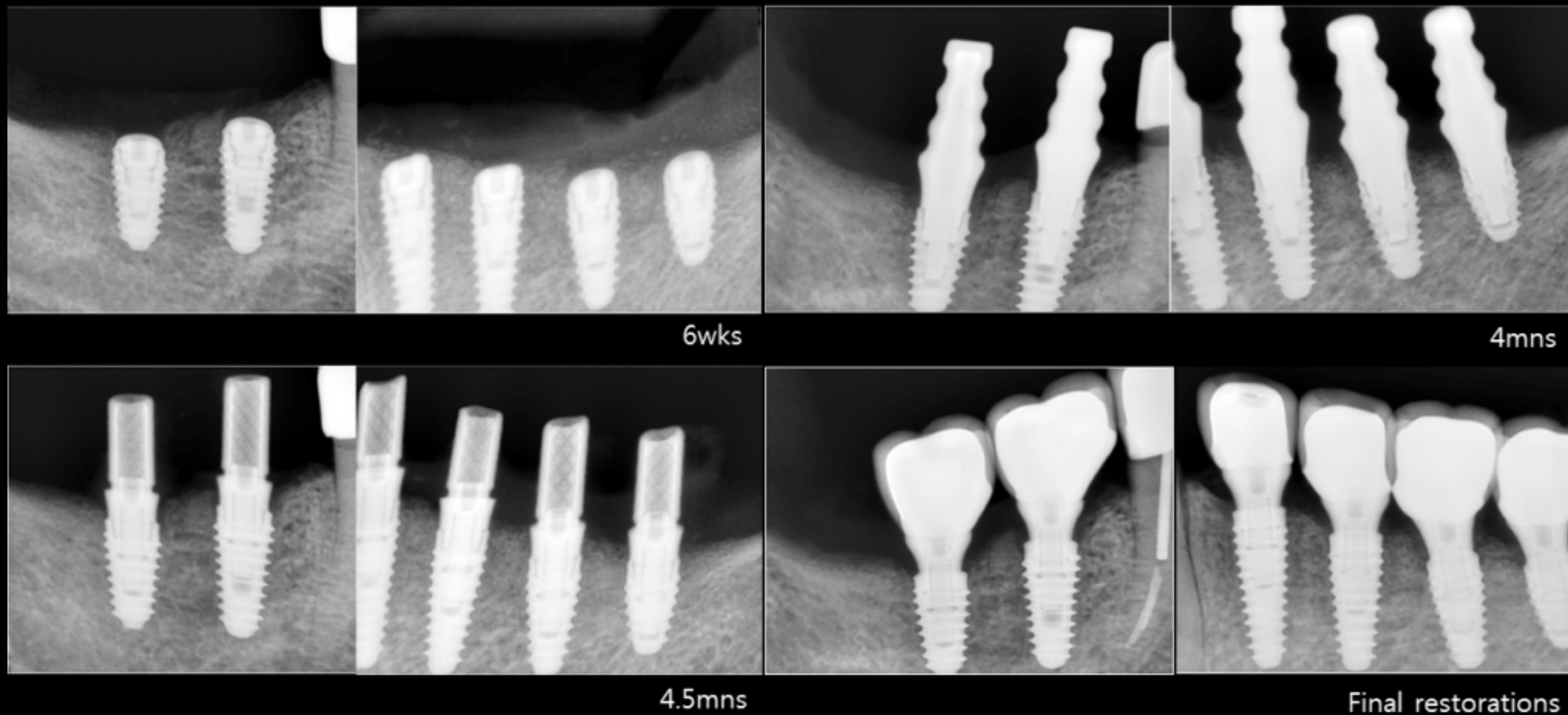
Case by Dr. Kwang-Bum Park

Healing was uneventful, and second stage surgery was performed with simple incision after 3 months



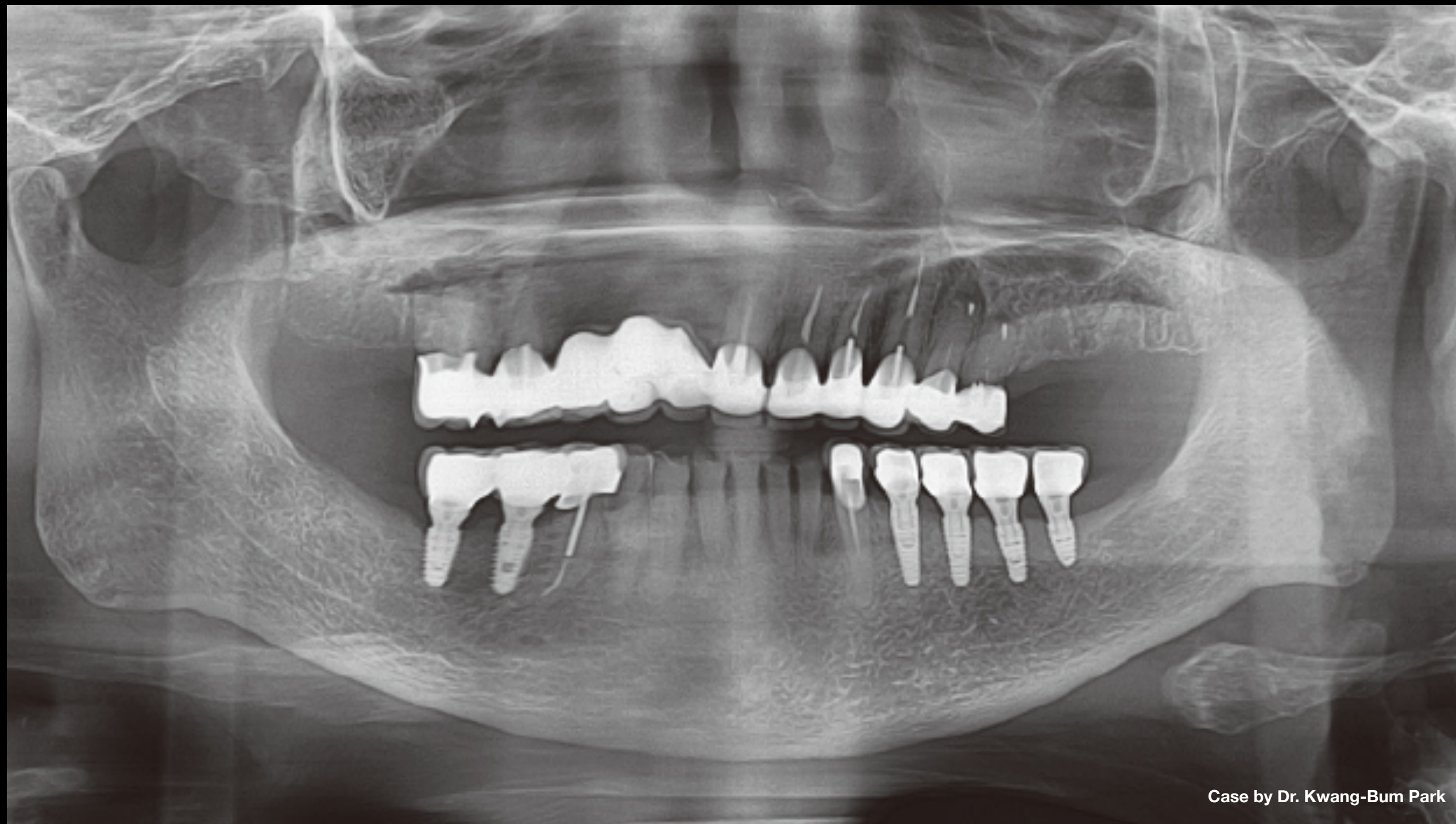
Case by Dr. Kwang-Bum Park

Healing abutments



Post-op radiographs

Case by Dr. Kwang-Bum Park



Case by Dr. Kwang-Bum Park

Post-op

