

INDUCE Oi-9™ CASE STUDY

Alveolar Ridge Preservation

88 Year-Old Female, Tooth #20

Clinical Presentation

Patient

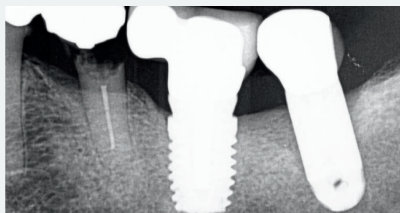
This 88-year-old female presented for extraction of tooth #20. She had multiple comorbidities, including heart disease, diabetes, cancer, arthritis, glaucoma, mitral valve prolapse, and a respiratory condition.

Treatment Plan

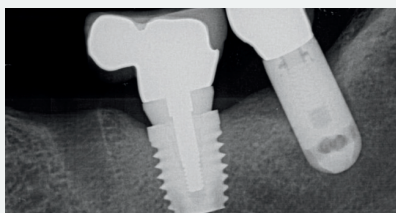
Alveolar ridge preservation procedure utilizing Induce Oi-9 Fiber Matrix covered with a BioXclude® membrane following extraction of tooth #20. Implant placement at 6 months following grafting. Bone core harvesting at implant placement and evaluation using micro-CT and Goldner's Trichrome staining.

Results

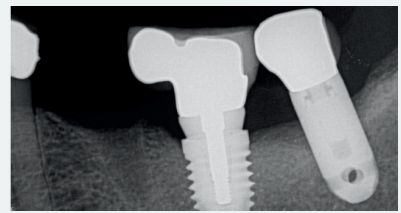
This patient demonstrated complete bone regeneration at the time of bone harvest and implant placement (6 months). Histological analysis revealed mineralized tissue consistent with new bone regenerate, surrounded by loose trabecular structures. In the few areas where Induce Oi-9 granules were identifiable, they were found to be fully integrated with the newly formed bone tissue and were nearly completely resorbed.



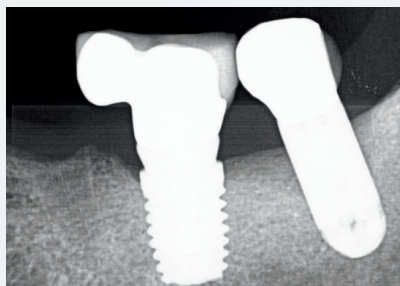
Pre-Op Radiograph



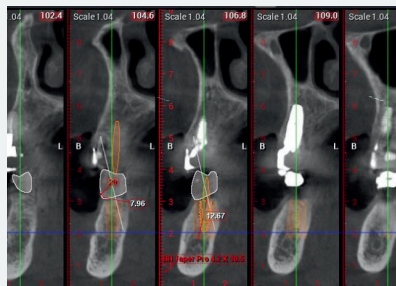
Day Of Extraction Radiograph And Induce Oi-9 Placement



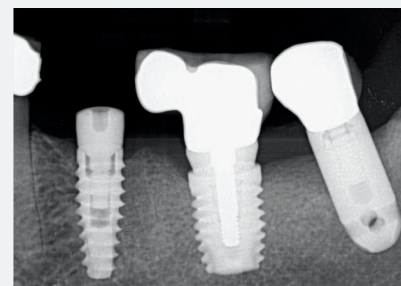
3 Months Post Extraction Radiograph And Induce Oi-9 Placement



7 Months Post Extraction Radiograph And Induce Oi-9 Placement



Implant Pre-Op CBCT 9 Months Post Extraction And Induce Oi-9 Placement

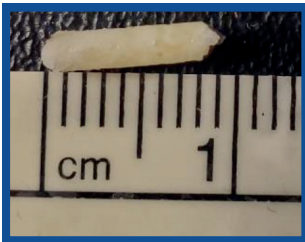


Day Of Implant Placement Radiograph

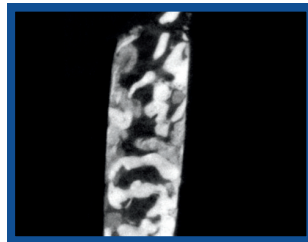
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Alveolar Ridge Preservation

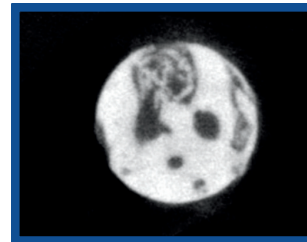
Clinical Documentation



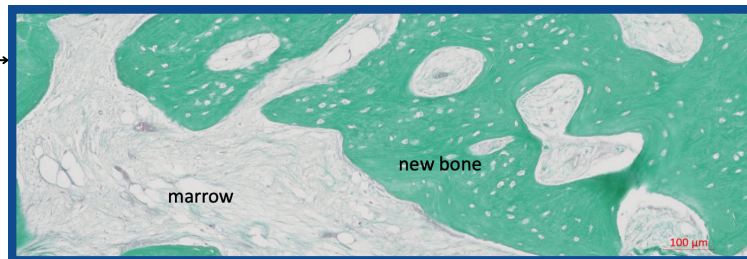
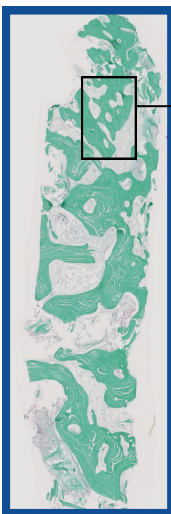
Bone Core



Micro-CT Of Bone Core (Image 1)



Micro-CT Of Bone Core (Image 2)



Goldner's Trichrome Stained Sections Of Bone Cores

Induce Oi-9™, a dental bioimplant designed to support bone regeneration. Using Natural Matrix Protein® (NMP®) technology, Induce Oi-9 makes key growth factors bioavailable, allowing clinicians to support bone formation in their grafting procedures.

*Dr. Robert Horowitz, Clinical Assistant Professor, Periodontology NYU College of Dentistry
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