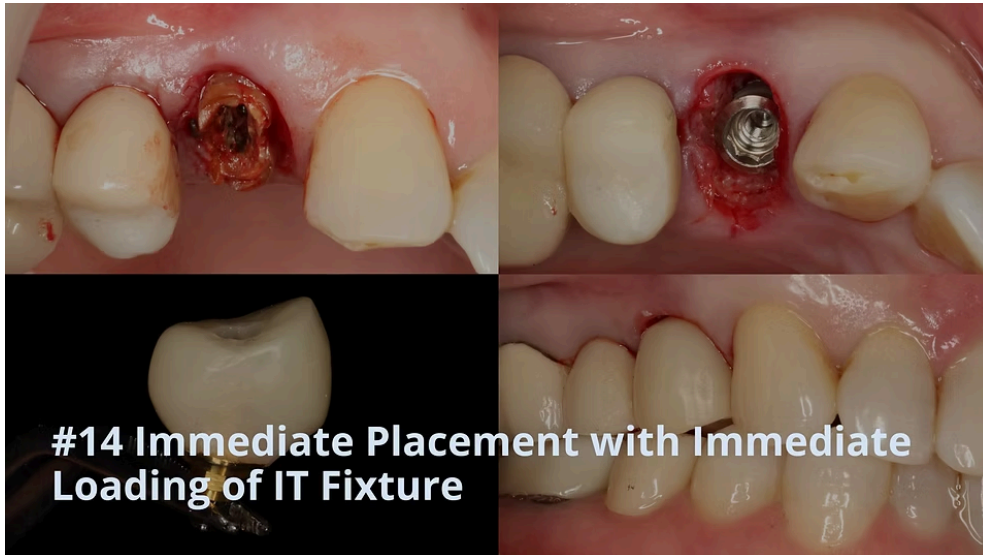




#14 Immediate Placement with Immediate Loading of IT Fixture



Case Summary

Patient Information

- Chief Complaint(C.C): Upper right side feels sore when chewing, and it doesn't seem to hold any pressure.
- Diagnosis: Caries under #14 crown & positive percussion response (++)

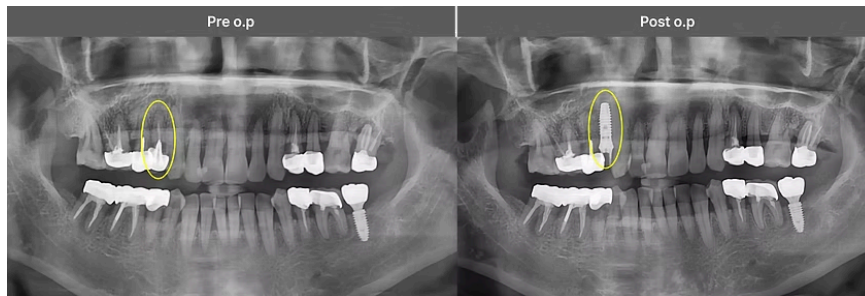
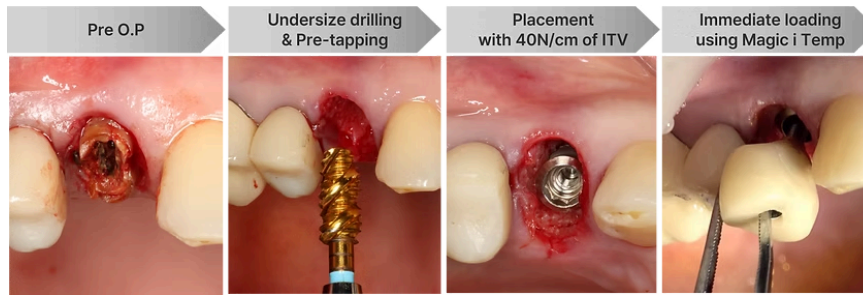
Treatment Plan

- Extraction of tooth #14
- Bone graft
- Immediate placement of a Ø4.5mm implant
- Immediate loading using Magic i temp

Results

- Extraction of #14 was performed due to subgingival and root caries.
- #14 Immediate placement & Immediate loading
- Implant size: IT-III Ø4.5x11mm / G.collar 1.8mm
- Bone density : D333(C3M3I3)
- ITV : 40N

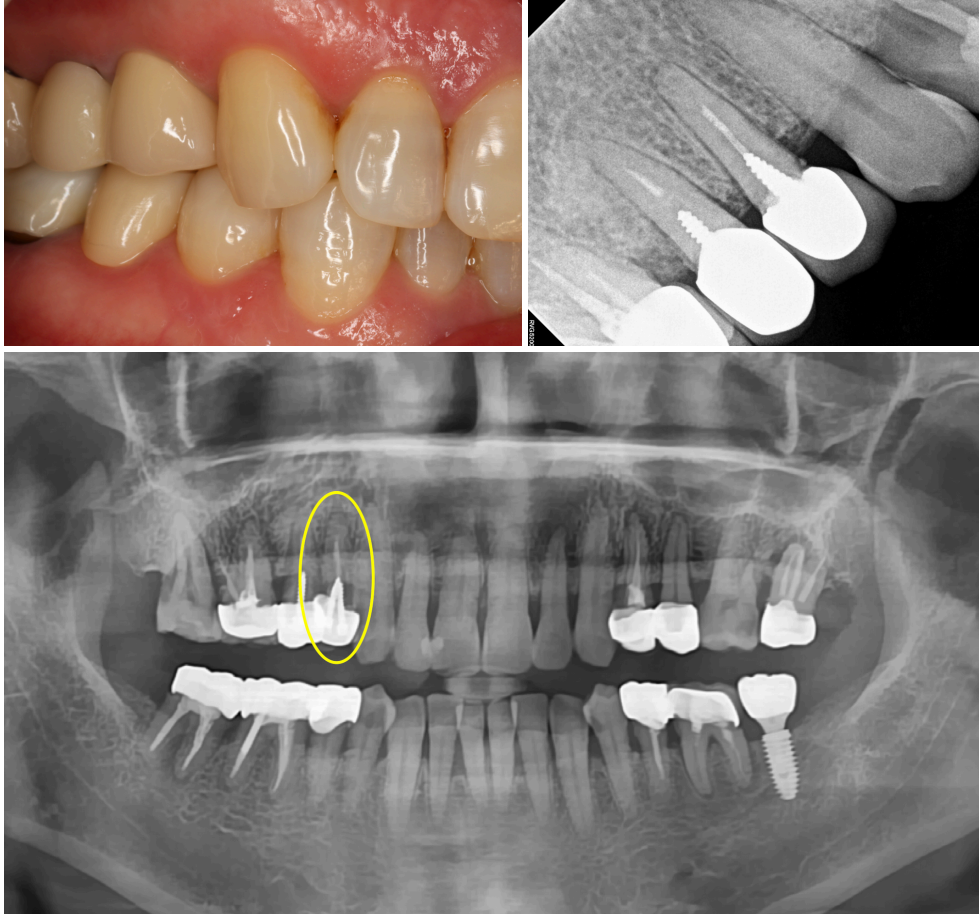
- ISTV: 87



Case Presentation

1 Pre-Op

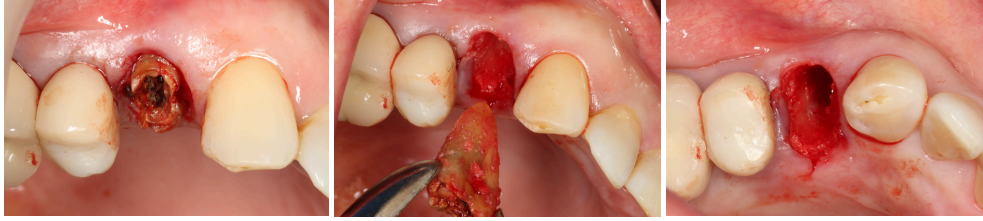
- Pre-Op X-ray & Intraoral Photo



2 Surgery

1) #14 extraction

- The internal structure of the crown has decayed, resulting in a separation from the post. To preserve the papilla, the periodontal ligament was severed using an explorer, followed by extraction.



2) Drilling protocol

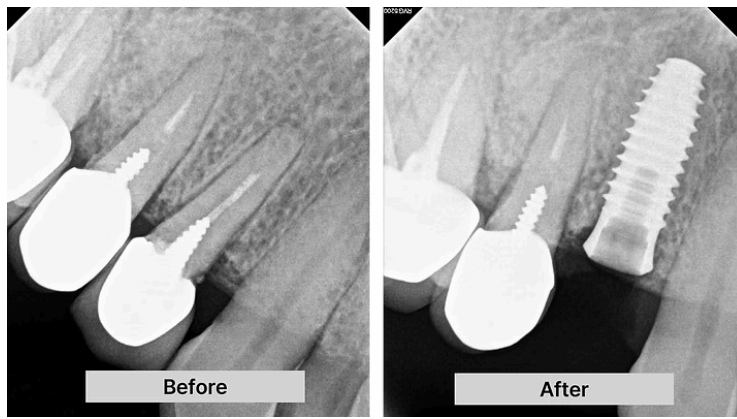
- **fig 1.** After extraction, the implant position was determined with Point Initial drilling.
- **fig 2, 3.** Undersize drilling was performed using drills ranging from Ø2.2 to Ø4.0, and after Ø2.2 drilling. The bone density determined through Ø2.2 drilling is classified as **D333**, indicating soft bone.
- **fig 4.** Pre-tapping was conducted with a Ø4.5 size Maxy drill, matching the diameter of the fixture, prior to placement.



3) Implant placement: Immediate placement

- After pre-tapping with a Maxy drill, an IT-III Ø4.5x11mm implant with a G-collar height of 1.8mm was placed.
- The fixture was placed precisely at the pre-tapped location, achieving a stability of 40 N/cm. For optimal aesthetics, it was positioned 3 mm below the gingiva.
- With an initial torque value (ITV) of 40 N/cm and an implant stability test value (ISTV) of 87 using Anycheck, immediate loading was successfully performed.





4) Bone graft

- After connecting the IT abutment, alveolar bone grafting was performed using Neo bone (allograft).



3 Temporary Prosthetics: Immediate loading

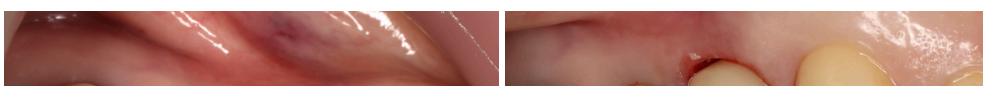
- Immediate loading with uncured resin implant crown using Magic i Temp, followed by final polishing and then tightened to 30N.



>  Magic i Temp

4 Final Intraoral Photo

- After occlusal adjustment, the hole was sealed with Teflon tape and resin to complete the procedure.





5 Clinical Video

💡 Explore the comprehensive surgical procedure in the video below to gain a deeper understanding.



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