A Case of Flapless Implant Placement and Bridge Restoration Avoiding Impacted Third Molar (#28)

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CASE DESCRIPTION

2022. 10. 12.
Fracture of #27

2022. 10. 12.
Impacted #28

47Y Male
CC: I feel pain on the upper left side.

This case describes the management of a patient who had a fractured left maxillary second molar (#27). Cone-beam CT revealed an impacted third molar (#28), prompting a strategic decision to preserve the area while extracting #25, #26, and #27. Ridge preservation was performed concurrently. The patient reported a known allergy to amoxicillin and related antibiotics, necessitating the use of metronidazole instead.

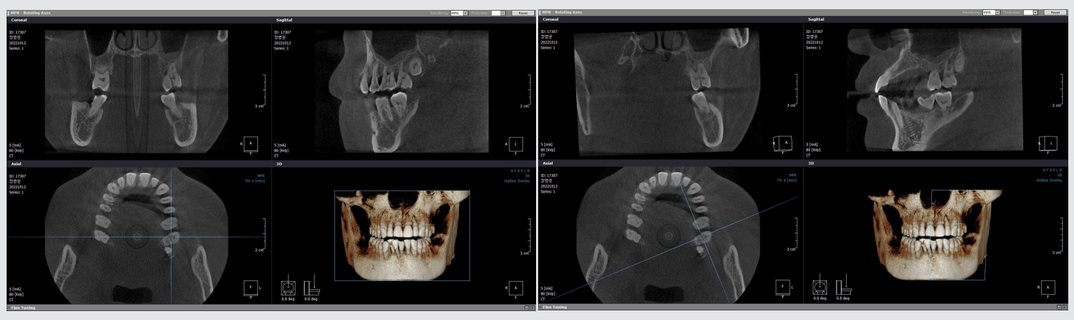
2022. 10. 14. Extraction of 25, 26, and 27. GBR.
The patient had a hard time coming to the clinic since he was busy mainly due to the business trips, domestic and abroad.

2023. 5. 29. Surgery. Flapess approach was used to minimize bleeding and pain, considering his business trips abroad

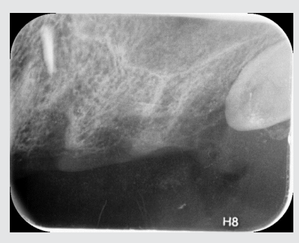
2023. 10. 20. Zirconia bridge was set on 25, 26, and 27.

2025. 4. 21. No complication was observed after 18 months.

CLINICAL PROCEDURES 1: Extraction and GBR



2022. 10. 12. Fracture of 27, impacted 28, CT



2022. 10. 14. Extraction of 25 26 27

2022. 10. 14. GBR

2022. 10. 14. GBR

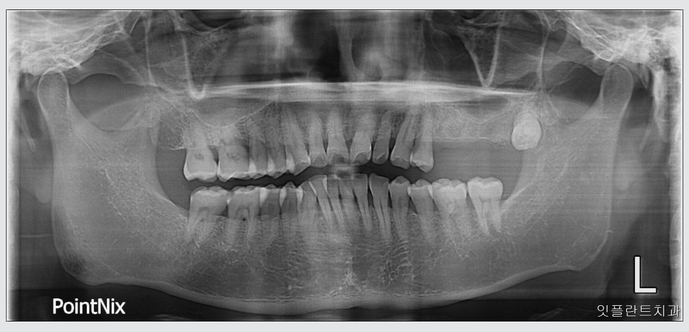
2022. 10. 14. GBR

2022. 10. 14. GBR

2022. 10. 14. GBR

2022. 10. 15. dressing

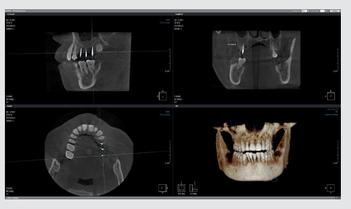
2022. 10. 19. stitch out



2023. 4. 26. Panorama.
The patient came to the clinic after 6 months.
He said he had been too busy to be able to come to the clinic

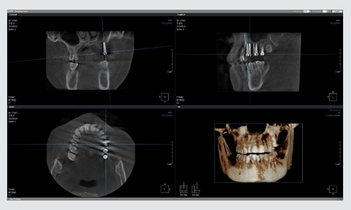
CLINICAL PROCEDURES 2: Surgery and Prosthesis

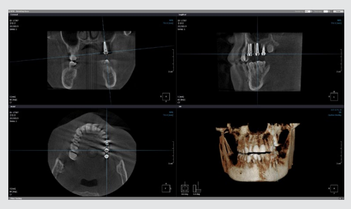
2023. 5. 19. Surgery

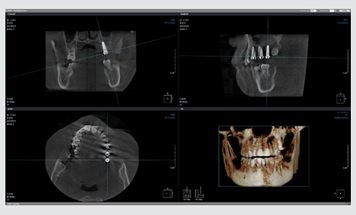


2023. 5. 19. Guide pins, intraoral, CT
Avoiding impacted 28

2023. 5. 19. On the day of the surgery, intraoral and panorama
ITVs: 25(20Ncm) 26(20Ncm), 27(20Ncm)
ISQs: 25(52/52) 26(49/53) 27(53/56)
Bone quality D4, 25 4.5*13 cuff 3, 26 5.5*13, cuff 3 27 5.5*13 cuff 3

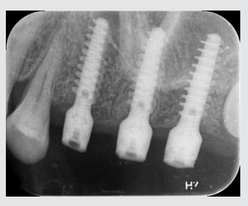






2023. 5. 19. On the day of the surgery, CT

2023. 5. 20. dressing

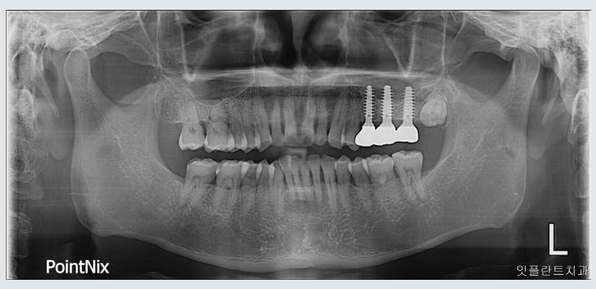


2023. 8. 17. impression with scan bodies for a zirconia bridge and a provisional bridge.
ISQs: 25 (60/59), 26(59/61), 27(61/55), He went abroad for a business trip

2023. 9. 21.

2023. 9. 21. Back from the business trip from abroad
custom abutments were set on 25, 26, and 27
Provisional bridge was set

2023.10.20. Zriconia bridge was set on 25, 26, and 27.

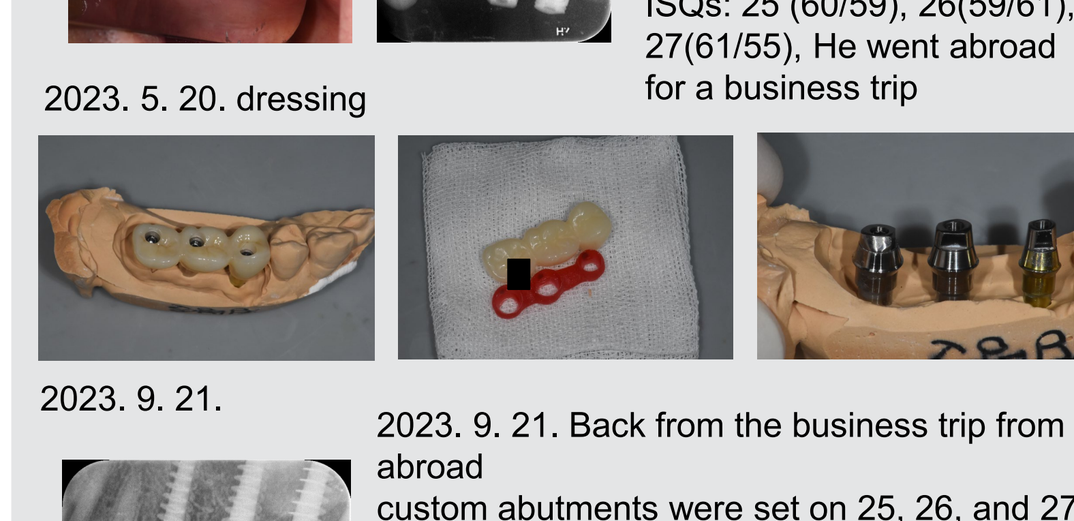


2024. 8. 5. Panorama, 9 months after the final zirconia bridge

CONCLUSIONS

After a healing period of approximately 7 months, three implants were placed via a flapless approach in a D4 bone quality region. After the patient's international travel schedule, temporary bridges were first delivered using customized abutments. Final prosthetic restoration with a screw-retained zirconia bridge was completed approximately one month later. This case illustrates an integrated treatment approach that accounts for anatomical constraints, drug hypersensitivity, and patient-specific scheduling needs, resulting in a stable and functional long-term outcome.

No complication was observed after 18 months.



2025. 4. 21. recall, 18 months after the final zirconia bridge