











TS III SA / GS III RBM / GS II RBM / GS Ultra-Wide RBM











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OSSTEM Clinical Cases

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Early loading of implants in partially edentulous mandible



Fig. 1)

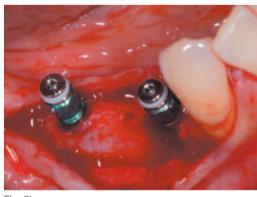


Fig. 3)

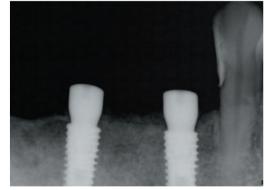


Fig. 5)

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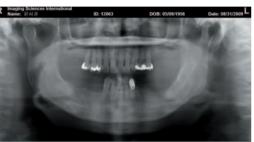


Fig. 1~2) The patient visited the clinic chiefly complaining of mastication troubles owing to the loss of the mandibular premolar and molar teeth. Due to the financial condition of the patient, recovering teeth only up to the premolar teeth was planned.



Fig. 4)







Fig. 6)

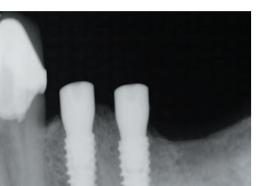


Fig. 8)



Fig. 9)



Fig. 11)



Fig. 7)

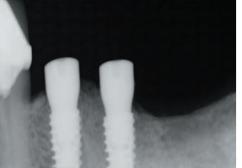


Fig. 6~8) $\boxed{4}$ TS III SA \varnothing 4.0 x 11.5mm (ISQ 68), $\boxed{5}$ TS III SA \varnothing 4.0 x 10mm (ISQ 82) were installed.



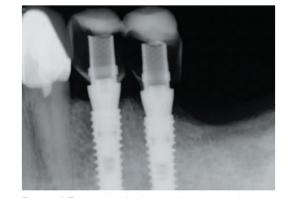
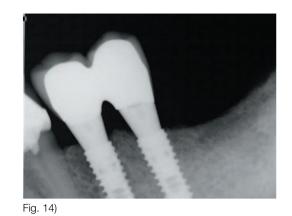


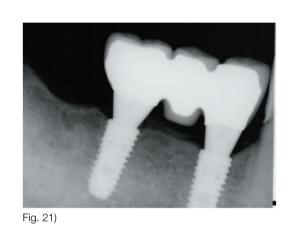
Fig. 9~12) Two weeks after implantation, early loading was tried with temporary bridge (ISQ 85 each).

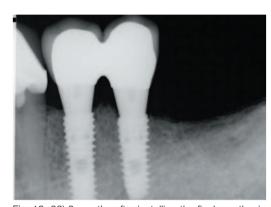












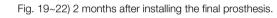


Fig. 15)



Fig. 13~15) Final bridge was delivered 2 months after

implantation.

Fig. 17)





Fig. 16~18) 1 months after delivery of the final bridge.

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Fig. 16)

Fig. 18)

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Implant position: 1

Age: 48, Sex: M

Namsang Dental Clinic
Director
Kim Ki-Seong

Optimizing esthetics for implant restoration in the anterior maxilla with immediate implantation



Fig. 1) The crown and root portion of 1 tooth were fractured due to an external trauma. Since the condition of the alveolar bone and soft tissue was ideal, immediate implantation after extraction was planned.



Fig. 2) Pre-operative radiograph of the fractured right maxillary central incisor.



Fig. 3) After atraumatic extraction, GS III ø 4 x 13mm fixture was placed. The implant position was under the incisal edge, which corresponds to the palatal incline to the root, and a 4-mm height healing abutment was connected.

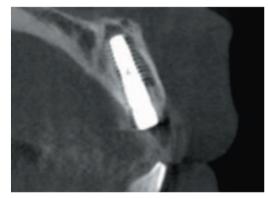


Fig. 4) A CT view after the immediate implantation.

The remaining gap of extraction socket on the labial side of the fixture was filled with Bio-Oss®.



Fig. 5) A removable flipper was fabricated as the initial temporary device.



Fig. 6) Three months after implant placement, a 3-mm collar rigid abutment (RA5630) was connected and repeatedly tightened to 30Ncm.



Fig. 7) The abutment was modified in the oral cavity with a high-speed bur as natural tooth preparation.

The prepared abutment was re-tightened to 30Ncm to prevent screw loosening.



Fig. 9) Facial appearance of final PFM crown.

The crown was temporarily cemented using
Tempbond. A small amount of cement was used
to avoid the problem of excessive cement.



Fig. 11) Final treatment outcome at 12 months after the final crown placement. The interdental papilla was well maintained.



Clinical

Fig. 8) The gingiva was retracted using a Retraction cap; A conventional closed-tray impression was made by the direct impression method.



Fig. 10) A periapical radiograph of the final crown.



Fig. 12) Occlucal view at 12 months after the final crown placement.

Implant position: 7

Age: 70 Sex: F

3

Bundang NYU Dental Clinic

Director
Chung, Chul-Woo

Immediate implantation with autogenous bone graft

Fig. 1) Inflammation was severe in the right mandibular molar teeth area due to periodontal diseases. But, installation of implants immediately after extraction the teeth was planned.



Fig. 2) Preoperative photographics of the intra-oral cavity.



Fig. 7) Membrane: lyoplant 1.5 x 1.5 cm.



Fig. 8) Suture with 4-0 nylon.



Fig. 3) Photographics of the intra-oral cavity after extraction.



Fig. 4) After pilot drilling, guide pins were inserted to check the paths. Notes the bone resorptions.



Fig. 9) Although the 6 lingual gingiva was weak due to severe periodontal diseases and inflammation, the site healed well.



Fig. 10) The 2nd operation was performed with partial thickness flap three months after installation of the implants.

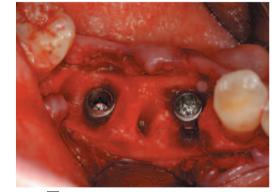


Fig. 5) 6 GS III Ø 4.0 x 11.5mm 7 GS III Ø 4.5 x 10.0mm implantation.



Fig. 6) Bone graft: autogenous bone from the ramus.



Fig. 11) Partial thickness flap design.

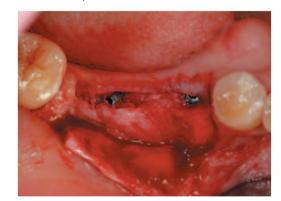


Fig. 12) Relatively well-healed hard tissues and soft tissues are shown.

GS III RBM

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Fig. 13) Suture with 4-0 nylon; the 3rd molar tooth was also extracted in the operation.



Fig. 15) Four weeks after the 2nd OP. Well-matured soft tissues are shown.



Fig. 17) Photographics of the intra-oral cavity immediately after installation of the prostheses.



Fig. 14) Two weeks after the 2nd OP. Soft tissues that have not yet matured are shown.



Fig. 16) Photographics of the Intra-oral cavity immediately after installation of the prostheses.



Fig. 18) Standard intra-oral X-ray view immediately after installation of the prostheses.

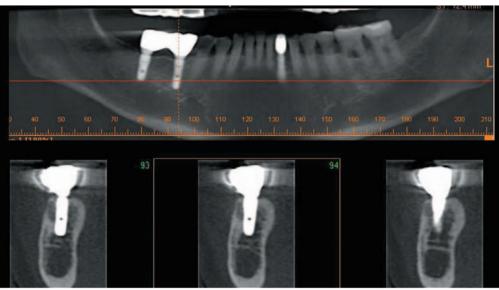


Fig. 19) C.T. imagies of the 6 area, 13 months after installation of the prosthesis; note that bones were formed well on the buccal side.

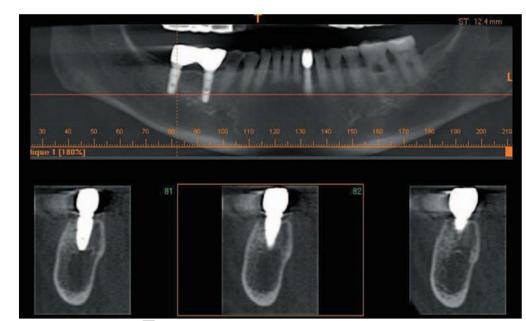


Fig. 20) C.T. imagies of the 7 area, 13 months after installation of the prosthesis.

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Clinical

Case

Seoul National University Bundang Hospital

Professor Kim, Young-Kyun Implant position: 7 6 5

Immediate and early loading in mandibular molar teeth areas



Fig. 1) Panorama radiograph at the initial diagnosis. Early functional recovery of implants in the $\boxed{5}$ $\boxed{6}$ areas was planned.



Fig. 3) View of implants (GS III) after the implantation. Early fixation was excellent. Thus, immediate loading was attempted. $\overline{6}$ \mid \emptyset 4.5 x 11.5mm (ISQ: 77), $\overline{7}$ \mid \emptyset 5.0 x 11.5mm (ISQ: 86).

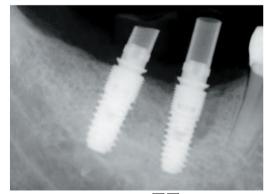


Fig. 5) Periapical radiograph of $6 \ 7$ areas after immediate loading.



Fig. 2) Photo of the oral cavity before the operation on the right mandibular molar teeth area.



Fig. 4) Temporary prostheses were installed in the $\boxed{6}$ areas the next day after the operation.



Fig. 6) View of implants (GS III) installed into 5 6 areas based on the one stage method. Although the initial fixing power was excellent, treatment plan was changed (from immediate loading to early loading) due to cost issues. 5 Ø 4.5 x 11.5mm (ISQ: 81) 6 Ø 4.5 x 11.5mm (ISQ: 88).

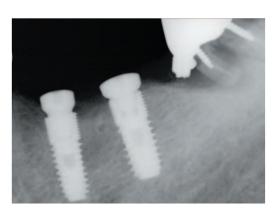


Fig. 7) Periapical radiograph after implanting into $\boxed{5} \boxed{6}$.



Fig. 9) Photo of the oral cavity five months after the placement of the final prosthesis on the 5 6 areas 6 weeks after implantation.



Fig. 11)



Fig. 8) Photo of the oral cavity three months after the placement of the final prosthesis in $\frac{1}{6}$ 7. The temporary prosthesis used in immediate loading was replaced by the final prosthesis 3 months. later.



Fig. 10)



Fig. 10~12) Periapical radiograph one year after the placement of the final prosthesis.

Case

All Dental Clinic

Director
Oh, Young-Hak

Implant position: 4 6

Age: 68, Sex:

Sinus lift and immediate implantation



Fig. 1)



Fig. 3)



Fig. 5)



Fig. 1~2) Periapical view at the initial diagnosis.



Fig. 3~4) Crestal approach. (Autogenous bone & Bio-Oss® graft)

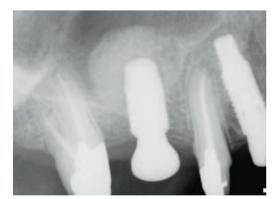


Fig. 5~6) GS II Ø 5.0 x 10mm.



Fig. 7)

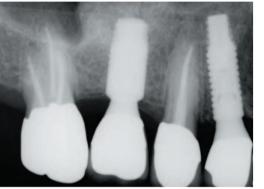


Fig. 9) 5 months after the final prosthesis.

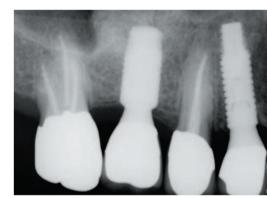


Fig. 11) 13 months after the final prosthesis.

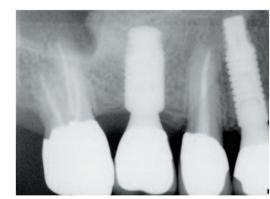


Fig. 13) 30 months after the final prosthesis.



Fig. 7~8) Final prosthesis.



Fig. 10) 9 months after the final prosthesis.



Fig. 12) 18 months after the final prosthesis.



Fig. 14) 42 months after the final prosthesis.

Implant position: $\begin{bmatrix} 6 \\ 7 \end{bmatrix}$

Age: 60, Sex: N

emmoa Dental Clir

Saemmoa Dental Clinic
Professor
Jeong, Jong-Cheol

Wide diameter implantation accompanied by GBR



Fig. 1) Radiograph at the first visit; the right mandibular first molar tooth had been extracted due to periodontal diseases.



Fig. 2) 7 6 at the first visit.

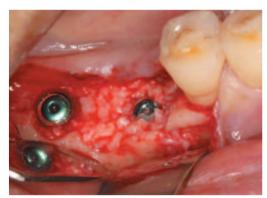


Fig. 3)



Fig. 5) 7 6 radiograph after implantation 6 was extracted.



Fig. 3~4) $\overline{6}$ GS Ultra-Wide \emptyset 6.0 x 8.5mm, $\overline{7}$ GS Ultra-Wide \emptyset 6.0 x 7.0mm $\overline{6}$ sureoss® chips (cortical bone) and surederm® were used.



Fig. 6) 1 month later Intra-oral photograph after extraction of Lt. first molar.



Fig. 7)



Fig. 9)



Fig. 11)



Fig. 13) 7 6 4 months after the final prosthesis; bone reaction was good.

6 radiograph of healing abutment installation after the 2nd operation.



Fig. 7~8) 6 the lateral window approach was used with GS Ultra-Wide Ø 6.0 x 10.0mm implant placement, while using Nu-oss® as bone graft material. Since the initial fixation was not good, the prosthesis was installed 8 months after the bone graft.

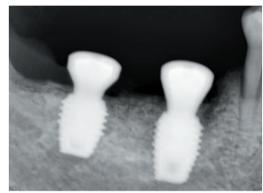


Fig. $9\sim10$) $\overline{7}$ $\overline{6}$ after the 2^{nd} operation.



Fig. 11~12) 7 6 final prosthesis.



Fig. 14) 7 6 8 months after the final prosthesis; bone reaction was good.
6 final prosthesis.

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