

Clinical Case Collection

Reconstructive Implantology :

Advanced Solutions with **STERI-OSS Implant** for Failed Cases

STERI-OSS IMPLANT



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This clinical case collection presents a comprehensive collection of reconstructive implant treatments performed after implant failure. Each case highlights the challenges of removing failed fixtures and achieving full functional and esthetic rehabilitation through advanced surgical techniques.

Additionally, this collection includes cases of patients who were previously diagnosed as unsuitable for implant placement — either due to severe bone loss or having been advised by other clinics to resort to removable dentures only. These cases demonstrate how proper planning and surgical execution led to successful implant placement and prosthetic restoration, resulting in high levels of patient satisfaction.

The objective of this case collection is to demonstrate that implant re-placement is possible even in cases with severe complications or bone deficiency. It aims to show that, through guided regeneration and careful surgical management, implants can be successfully placed even in patients who were once told they were ineligible for implant therapy.

This collection serves as a practical resource for clinicians seeking to improve outcomes in complex re-implantation and re-construction cases.

Clinical Case 1

Staged Full Arch Rehabilitation of the Maxilla with Implant Removal, GBR, and Re-implantation

■ PATIENT INFO.

- Last Name : Jung
- Age : 73
- Gender : Female

■ CASE OVERVIEW

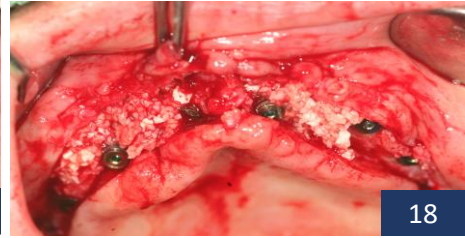
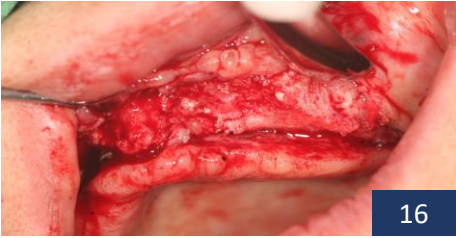
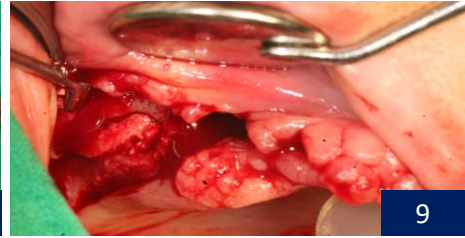
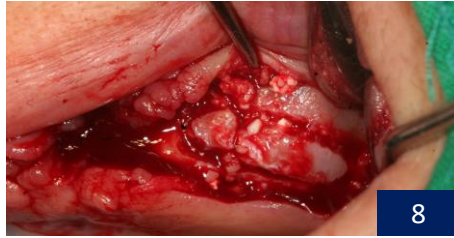
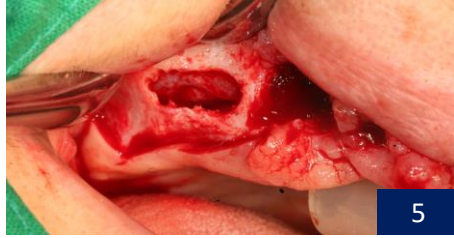
- The patient had been using a maxillary overdenture supported by four implants for over 20 years.
- However, due to advanced peri-implantitis, all 4 implants showed severe abutment mobility and required removal.

■ TREATMENT PLAN

- Removal of all four maxillary implants followed by bone grafting and bilateral sinus lifting.
- Re-implantation after a healing period of 4 months.
- The severely compromised mandibular left implant will be treated after completing the maxillary rehabilitation.

■ TREATMENT TIMELINE

- The second-stage surgery was performed 4 months after implant placement, followed by the delivery of the final prosthesis using the EOQ cementless system.



Clinical Case 2

Maxillary Full Arch Restoration Incorporating a Pre-existing Implant with Simultaneous GBR and Multi-implant Placement

■ PATIENT INFO.

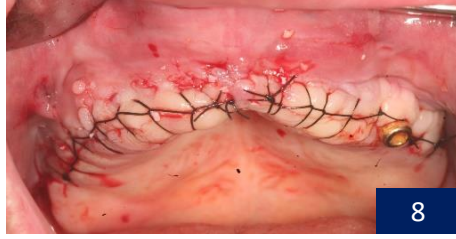
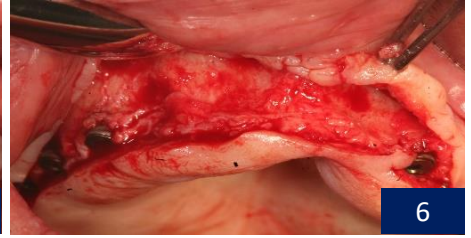
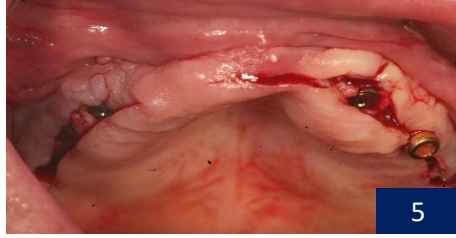
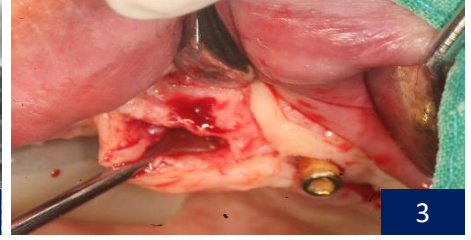
- Last Name : Kim
- Age : 49
- Gender : Male

■ CASE OVERVIEW

- At the initial visit, the patient had one implant placed in the maxilla and was using a full denture that was not functionally related to the implant.
- Severe bone resorption was observed in the maxilla due to prolonged denture use without proper implant support.

■ TREATMENT PLAN

- Simultaneous GBR and placement of 5 additional implants.
- Fabrication of a full-mouth bridge utilizing a total of 6 implants, including the existing one.



Clinical Case 3

From Partial Dentures to Full Implant Rehabilitation

■ PATIENT INFO.

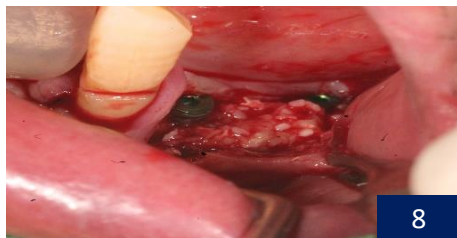
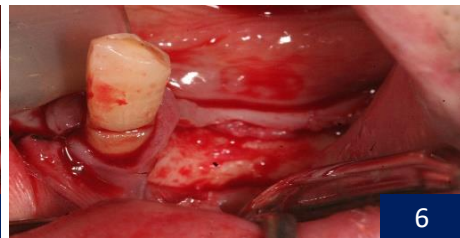
- Last Name : Kim
- Age : 63
- Gender : Male

■ CASE OVERVIEW

- The patient initially presented wearing partial dentures in both the maxilla and mandible, complaining of significant discomfort and functional limitations. He sought implant treatment as a definitive solution to eliminate the use of removable prostheses.
- To maintain support for the interim mandibular denture during the healing period, the left mandibular canine was preserved during the first-stage surgery. This tooth was later extracted at the time of second-stage surgery, after final impression taking.

■ TREATMENT PLAN

- Full-arch implant placement in the mandible.
- Preservation of the left mandibular canine during initial surgery to support interim denture function.
- Extraction of the retained canine following second-stage surgery and final impression.
- Transition to fixed implant-supported prosthesis.



Clinical Case 4

Full Arch Rehabilitation in the Maxilla with Challenging Palatal Tuberosity and Severe Bone Resorption

■ PATIENT INFO.

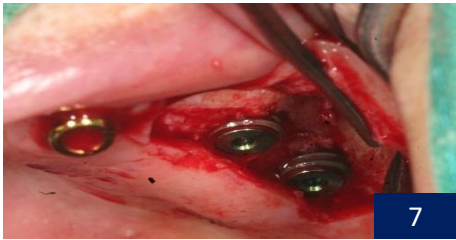
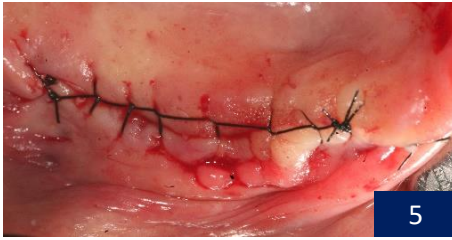
- Last Name : Park
- Age : 69
- Gender : Female

■ CASE OVERVIEW

- At the initial visit, the patient had two implants placed in the maxilla and was using an ill-fitting denture (possibly an overdenture), which contributed to severe bone resorption.
- In addition, the patient had pronounced palatal tuberosities, which made denture use uncomfortable and functionally limiting.

■ TREATMENT PLAN

- Placement of five additional implants simultaneously with GBR.
- Fabrication of a full-mouth bridge utilizing a total of seven implants, including the existing two.



Clinical Case 5

Full-Mouth Rehabilitation with Extraction and Simultaneous Implant Placement in a Severely Atrophic Mandible

■ PATIENT INFO.

- Last Name : Sung
- Age : 61
- Gender : Male

■ CASE OVERVIEW

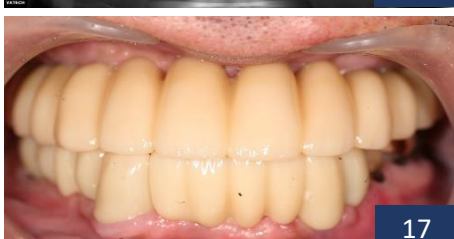
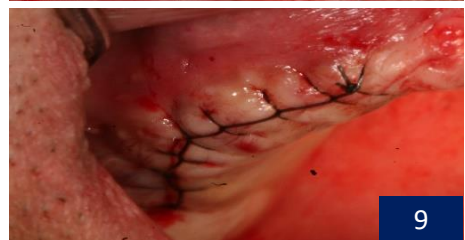
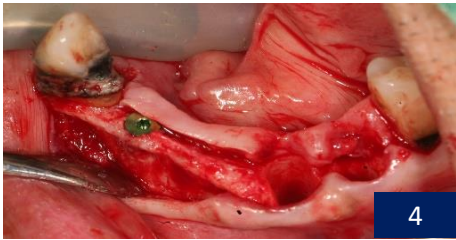
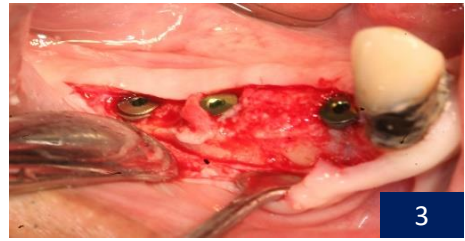
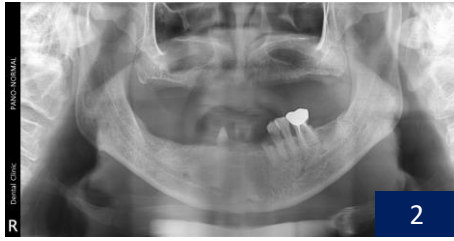
- At the initial visit, only five natural teeth remained in the mandible.
- The left mandibular canine and first premolar exhibited Grade III mobility.
- Overall, significant alveolar bone loss was observed throughout the mandibular arch.

■ TREATMENT PLAN

- Extraction of the severely mobile left mandibular canine and first premolar.
- Simultaneous placement of 7 implants in the maxilla and 6 implants in the mandible, along with bone grafting.

■ TREATMENT TIMELINE

- The second-stage surgery was performed at 10 weeks after implant placement.
- The final prosthetic restoration was completed at 12 weeks.



Clinical Case 6

Full-Mouth Rehabilitation with Severe Bone Loss and Strategic Implant Placement

■ PATIENT INFO.

- Last Name : Cho
- Age : 72
- Gender : Male

■ CASE OVERVIEW

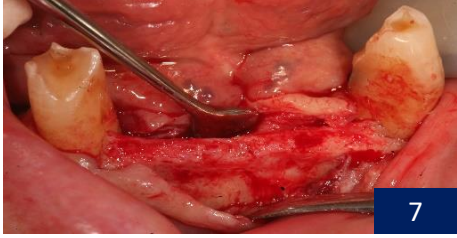
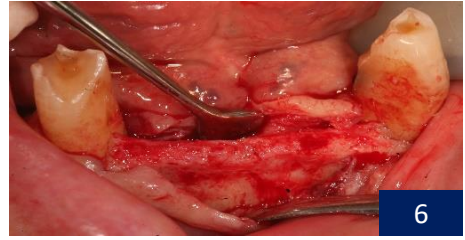
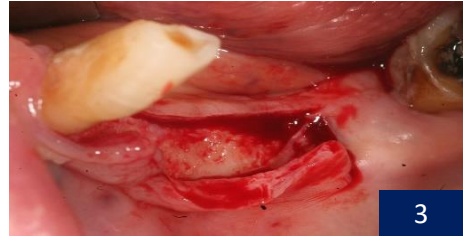
- The patient had only 4 remaining teeth in both the maxilla and mandible, with all other areas being edentulous.
- Severe alveolar bone resorption was present throughout both arches.

■ TREATMENT PLAN

- Simultaneous bone grafting and implant placement.
- A total of 12 implants were planned—6 in the maxilla and 6 in the mandible.

■ TREATMENT TIMELINE

- The second-stage surgery was performed at 10 weeks after implant placement.
- The final prosthetic treatment - including the natural teeth - was completed at 14 weeks.



Clinical Case 7

Implant Placement with GBR Following Extraction Due to Severe Periodontitis

■ PATIENT INFO.

- Last Name : Ji
- Age : 57
- Gender : Male

■ CASE OVERVIEW

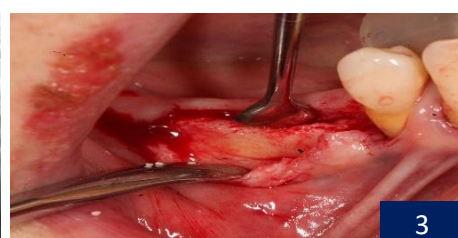
- The patient presented with severe alveolar bone loss caused by advanced periodontitis.

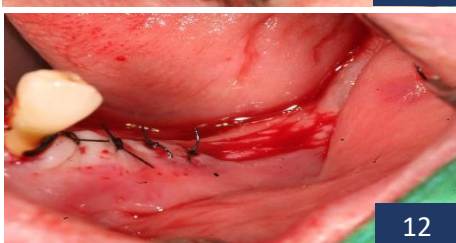
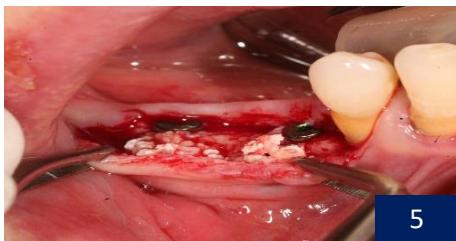
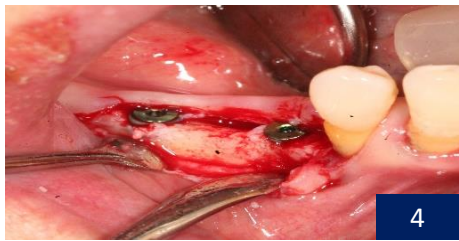
■ TREATMENT PLAN

- Extraction of teeth with severe mobility.
- Implant placement with guided bone regeneration (GBR).

■ TREATMENT TIMELINE

- The second-stage surgery was performed at 10 weeks after implant placement.
- The final prosthetic treatment - including the natural teeth - was completed at 12 weeks.





Clinical Case 8

Implant Placement with GBR Following Multiple Extractions Due to Severe Mobility

■ PATIENT INFO.

- Last Name : Choi
- Age : 71
- Gender : Male

■ CASE OVERVIEW

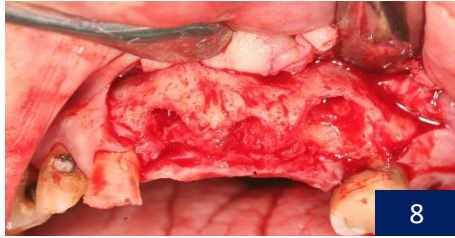
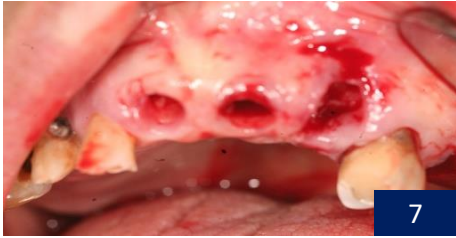
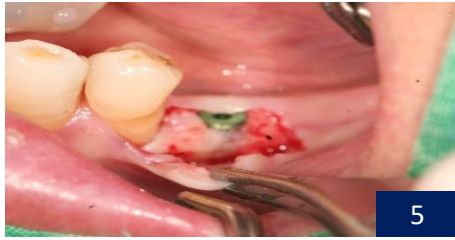
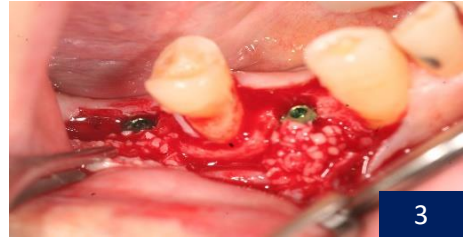
- The patient presented with severe tooth mobility involving the upper right central incisor and canine, and the upper left central, lateral incisors, and canine.

■ TREATMENT PLAN

- Extraction of the maxillary right central incisor and canine, and left central, lateral incisors, and canine due to severe mobility.
- Placement of 6 implants in the maxilla and 3 implants in the mandible, along with GBR.

■ TREATMENT TIMELINE

- The second-stage surgery was performed at 10 weeks after implant placement.



Clinical Case 9

Staged Maxillary and Mandibular Implant Placement with Sinus Lift and GBR

■ PATIENT INFO.

- Last Name : Kim
- Age : 49
- Gender : Male

■ CASE OVERVIEW

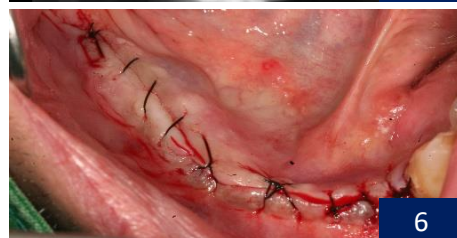
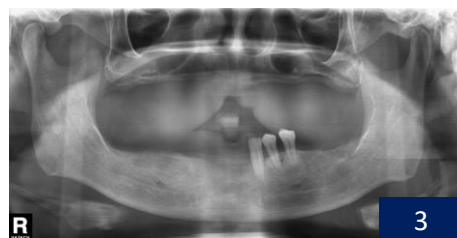
- The patient presented with only 3 remaining teeth in the mandible.

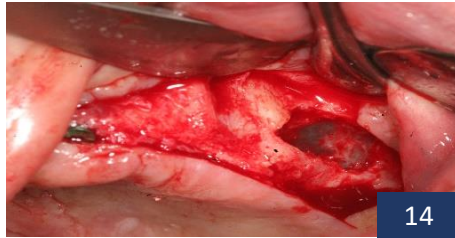
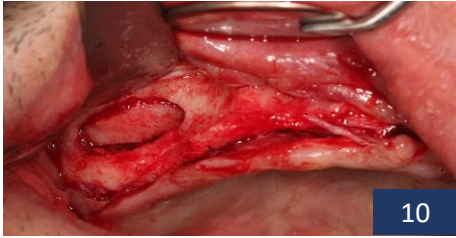
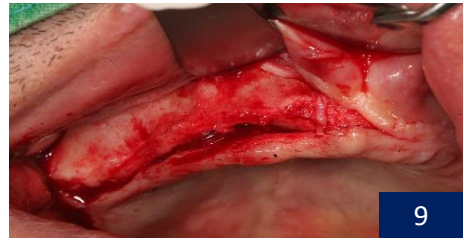
■ TREATMENT PLAN

- Placement of 7 implants in the mandible.
- Simultaneous placement of 4 implants in the anterior maxilla with GBR.
- Lateral sinus lift and GBR in both posterior maxillary regions.
- After a healing period of 6 months, placement of 4 additional implants in the posterior.

■ TREATMENT TIMELINE

- The second-stage surgery was performed at 10 weeks after implant placement.
- The mandibular prosthesis was completed at 12 weeks after surgery.
- Four implants were placed in the posterior maxilla at 6 months after surgery.
- The final prosthesis was completed at 10 months after surgery.





Clinical Case 10

Mandibular Implant Removal and Re-implantation after Bone Grafting due to Severe Infection

■ PATIENT INFO.

- Last Name : Byun
- Age : 59
- Gender : Male

■ CASE OVERVIEW

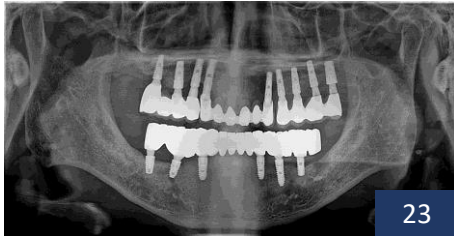
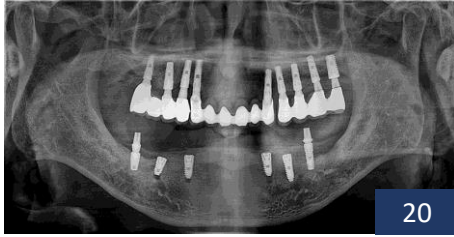
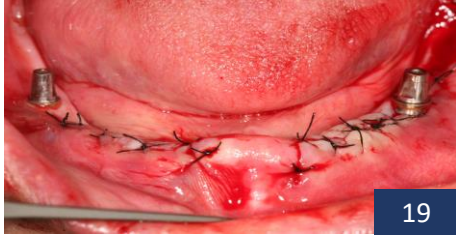
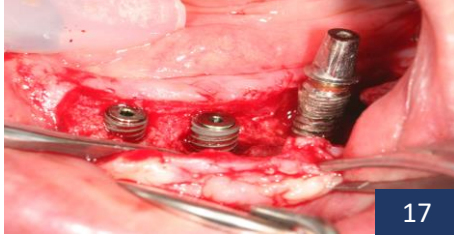
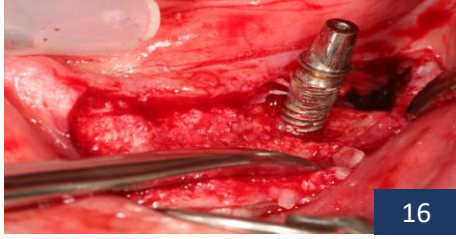
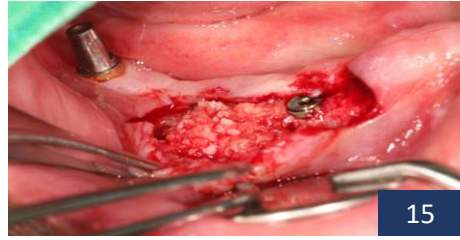
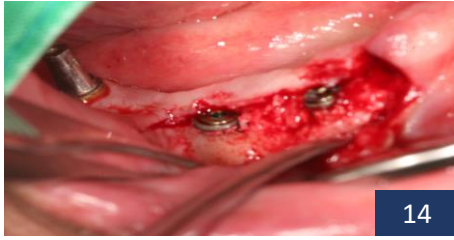
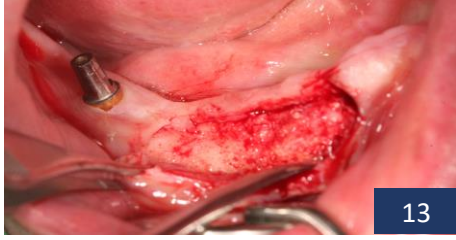
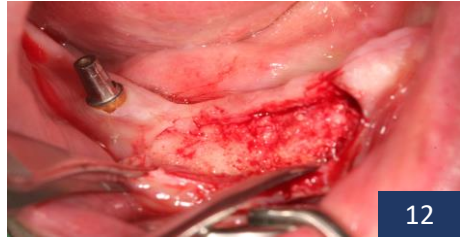
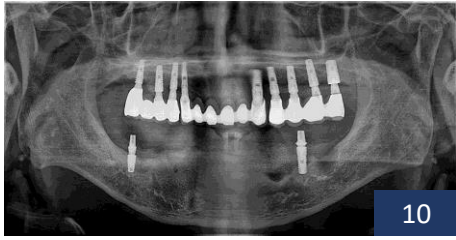
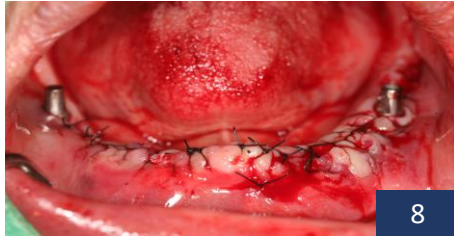
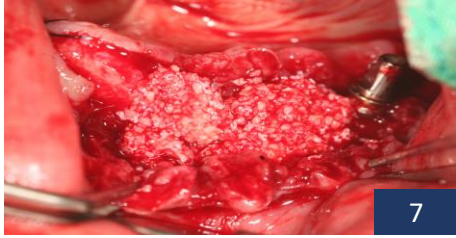
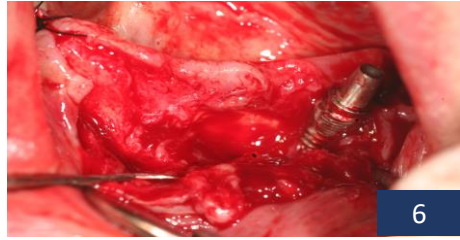
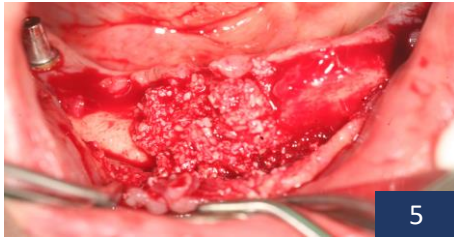
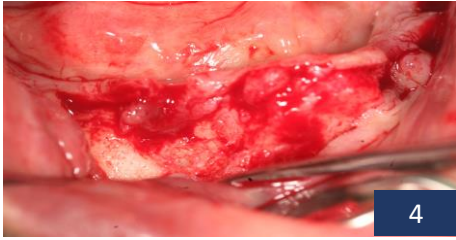
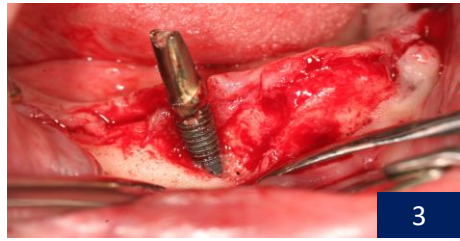
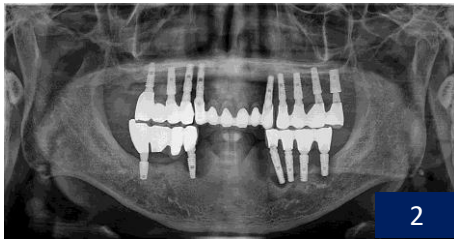
- The patient presented with a severe infection around the mandibular implants and visited the clinic for re-operation.
- Radiographic and clinical findings revealed advanced bone destruction due to the chronic infection around all four implants.

■ TREATMENT PLAN

- Simultaneous removal of the 4 infected mandibular implants and bone grafting were performed.
- A 4-month healing period was planned, followed by re-placement of implants in the same area.

■ TREATMENT TIMELINE

- Implant placement and additional bone grafting performed 4 months after surgery.
- Final prosthesis completed 7 months after the initial surgery.



Clinical Case 11

Implant Placement in the Maxilla and Mandible with Sinus Elevation and GBR

■ PATIENT INFO.

- Last Name : Heo
- Age : 56
- Gender : Male

■ CASE OVERVIEW

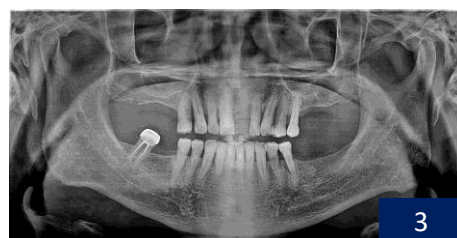
- The patient presented with missing teeth in the bilateral posterior maxilla and mandible, including the upper left central incisor, upper right first molar, and upper left first and second molars.
- Extensive prosthetic rehabilitation was required for both arches.

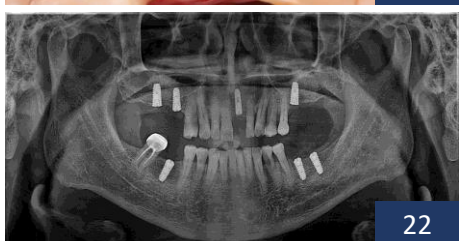
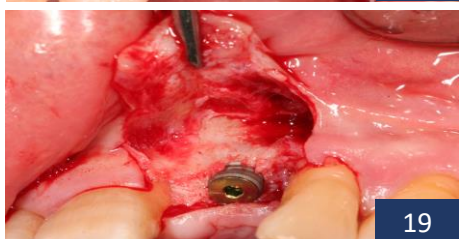
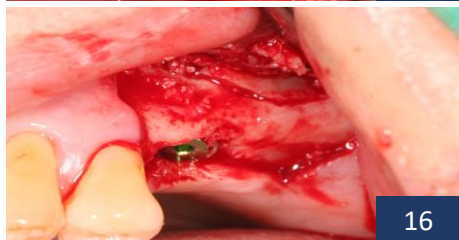
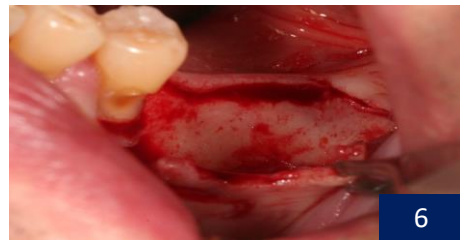
■ TREATMENT PLAN

- Placement of 2 implants in the right maxilla with bilateral sinus lift and GBR
- Placement of 1 implant in the left maxilla with sinus floor elevation and GBR
- Placement of 1 implant in the right mandible with GBR
- Placement of 2 implants in the left mandible with GBR

■ TREATMENT TIMELINE

- Final prosthetic treatment completed 4 months after surgery.





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