



• Background :

- Immediate implant placement (IIP) has become increasingly popular in implant dentistry due to its ability to reduce treatment time and improve esthetic outcomes. The incorporation of socket seal abutment (SSA) and socket grafting further enhances the success of this technique. SSA helps create a stable environment for osseointegration by sealing the implant socket, and preserving the soft tissue architecture .

• Case Report :

- Case 1: A 49-year-old male sought restoration for fractured tooth #4. (IIP) was performed, Temp cylinder insertion for SSA abutment fabrication followed, along with bone graft placement. After 4 months of healing, the peri-implant soft tissue architecture remained unchanged. The patient received a screw-retained zirconia implant crown, maintaining an esthetic emergence profile and restoration,
- Case 2: A 52-year-old male presented with fractured anterior teeth 8 and 9 following trauma, seeking restoration. After assessment, IIP with a SSA was planned . Atraumatic extraction and guided implant placement were performed, followed SSA abutment fabrication. A xenograft and allograft mix was placed in the pre-implant socket space. Despite successful healing, implant #9 lacked osseointegration and was removed due to poor bone quality , infection and patient related factors. No changes were observed in the peri-implant soft tissue architecture of tooth #8. The patient will wait 3 months before implant placement in site number 9.

• Limitations and Considerations:

- Insufficient Bone Quantity or Quality
- Acute Infection or Active Periodontal Disease
- Uncontrolled Systemic Conditions
- Inadequate Soft Tissue Support
- Patient-related Factors

• Clinical Implications:

- The current case report illustrates the efficacy of a socket seal abutment during implant placement to preserve peri-implant soft tissue architecture and establish a favorable emergence profile. This approach effectively reduce both vertical and horizontal shrinkage resulting from post-extraction remodeling processes and promote an esthetic outcome However it has it has risk when the clinical situation is not favorable .

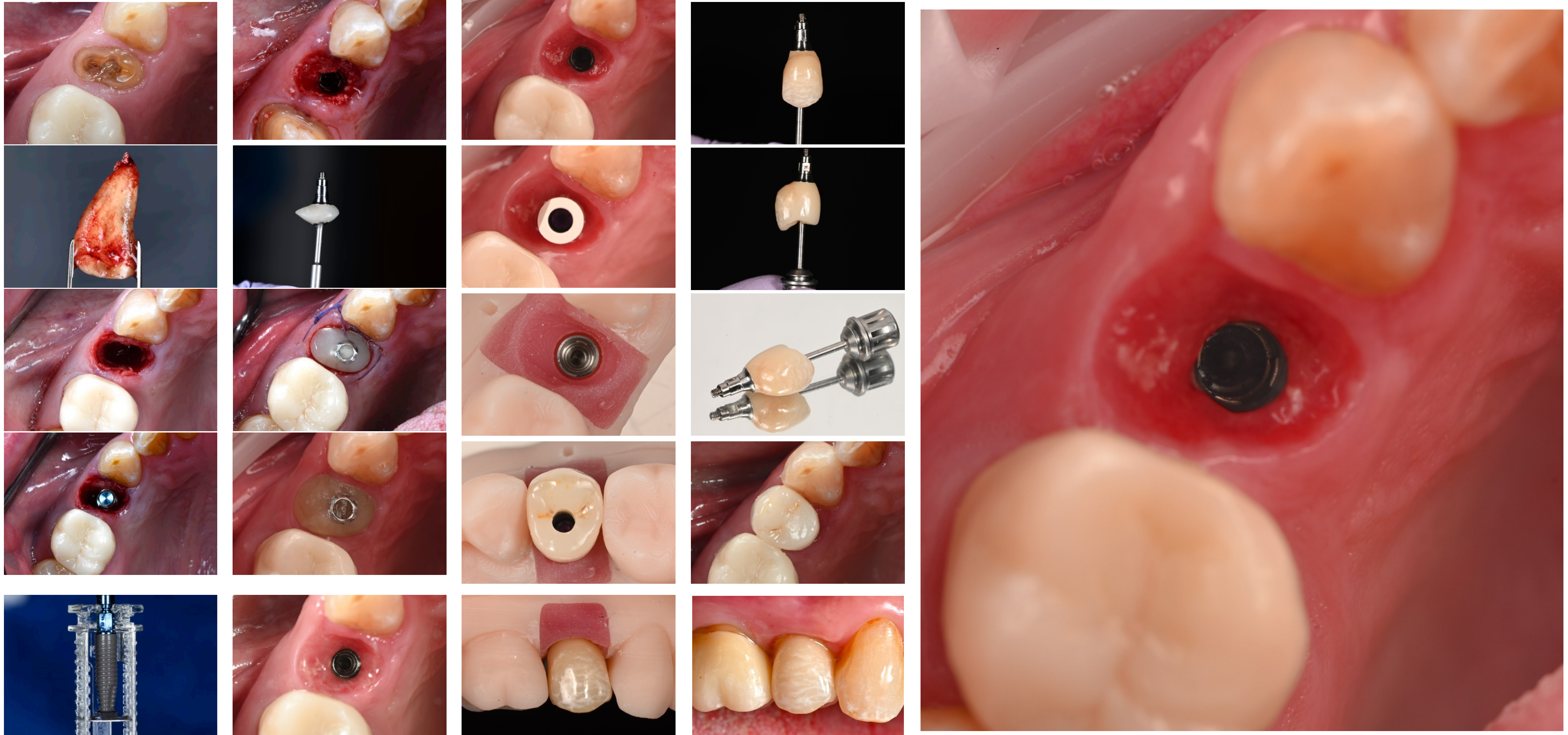
• Conclusion:

- The combination of IIP with SSA and socket grafting offers promising results in terms of implant stability, esthetic outcomes, and patient satisfaction. The positive outcomes observed in this study suggest the potential benefits of integrating these techniques into clinical practice

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