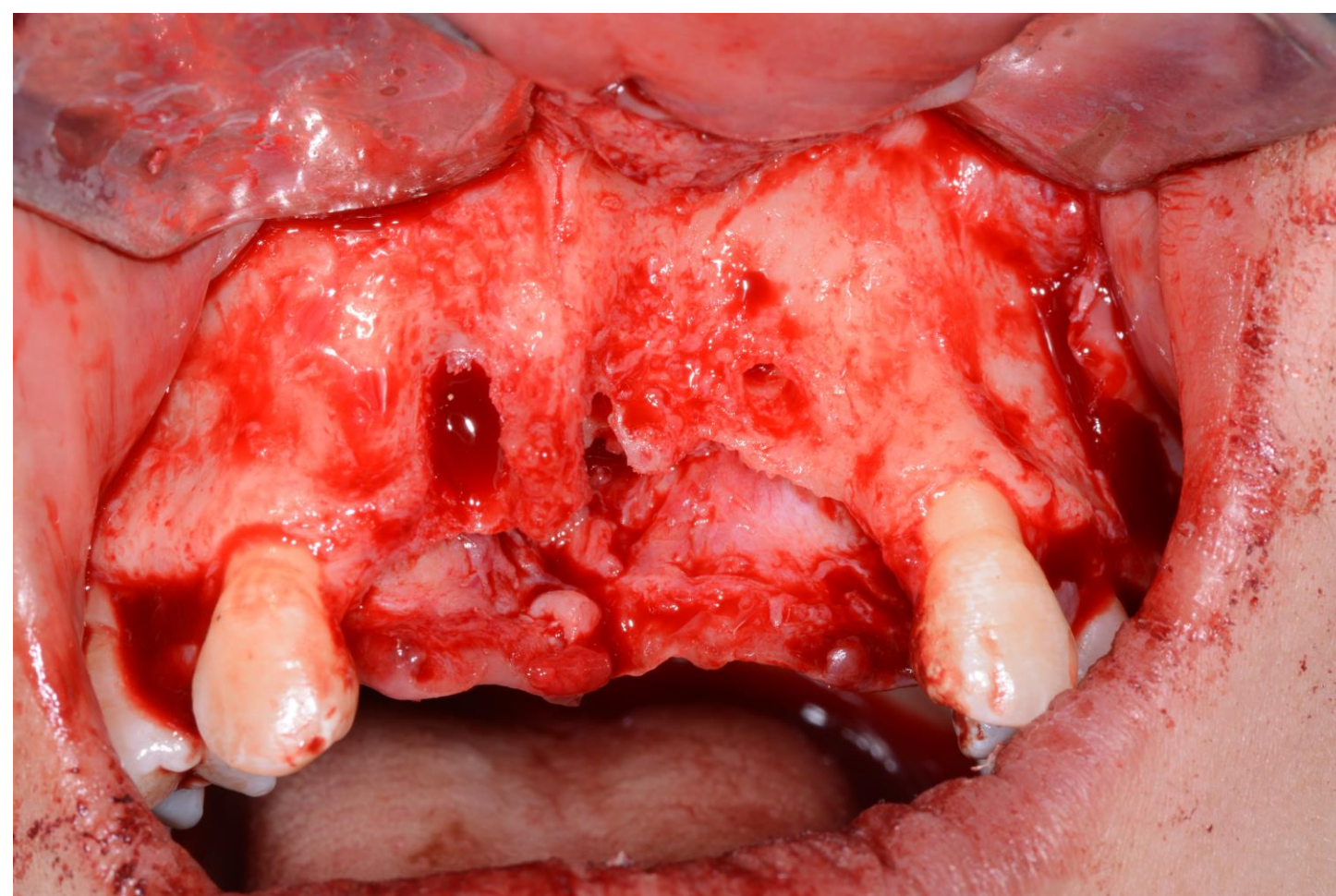


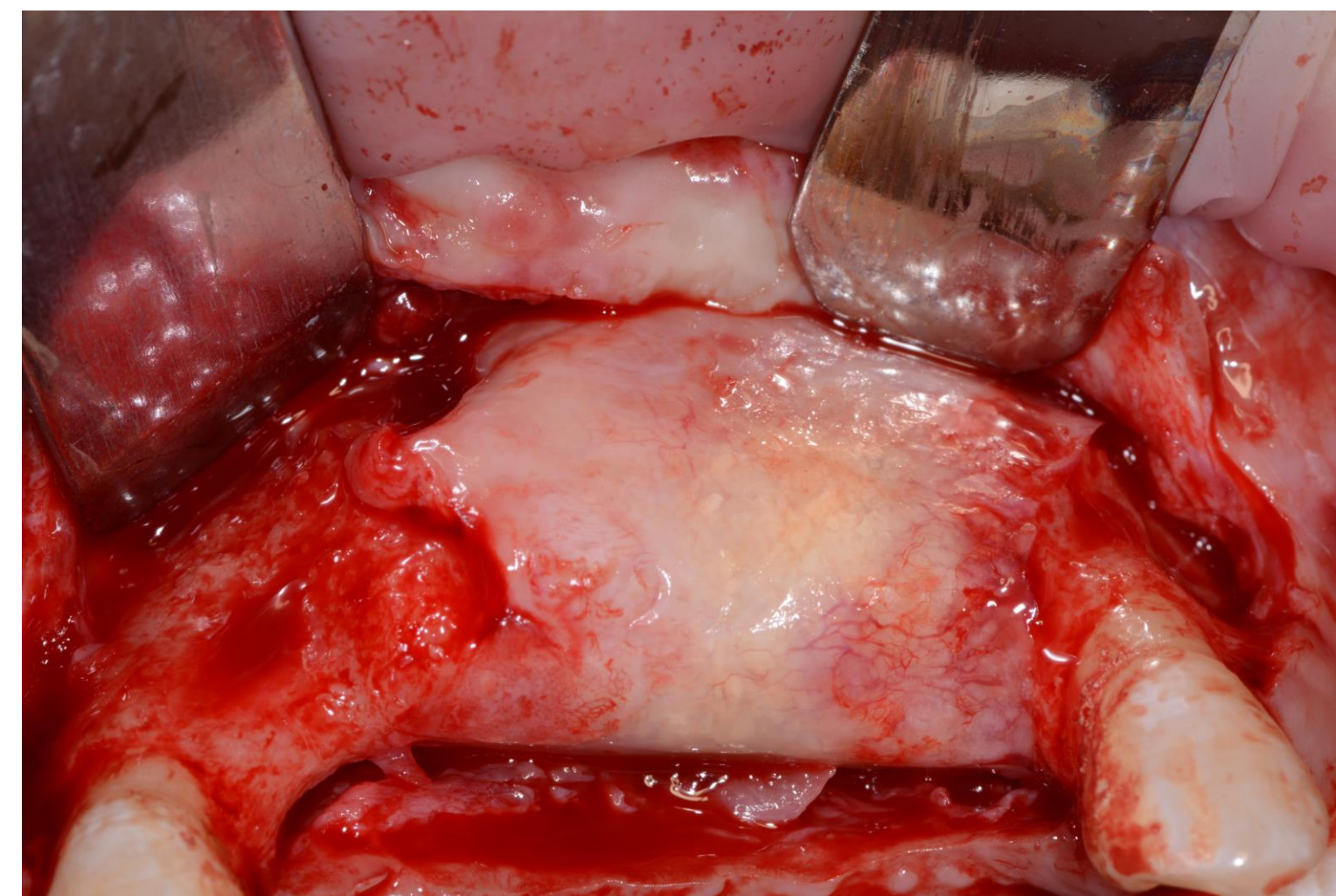
Objective

To implement comprehensive soft and hard tissue management and reconstruction in a case of continuous defects in the aesthetic zone with severe bone loss, and to evaluate its clinical outcomes.



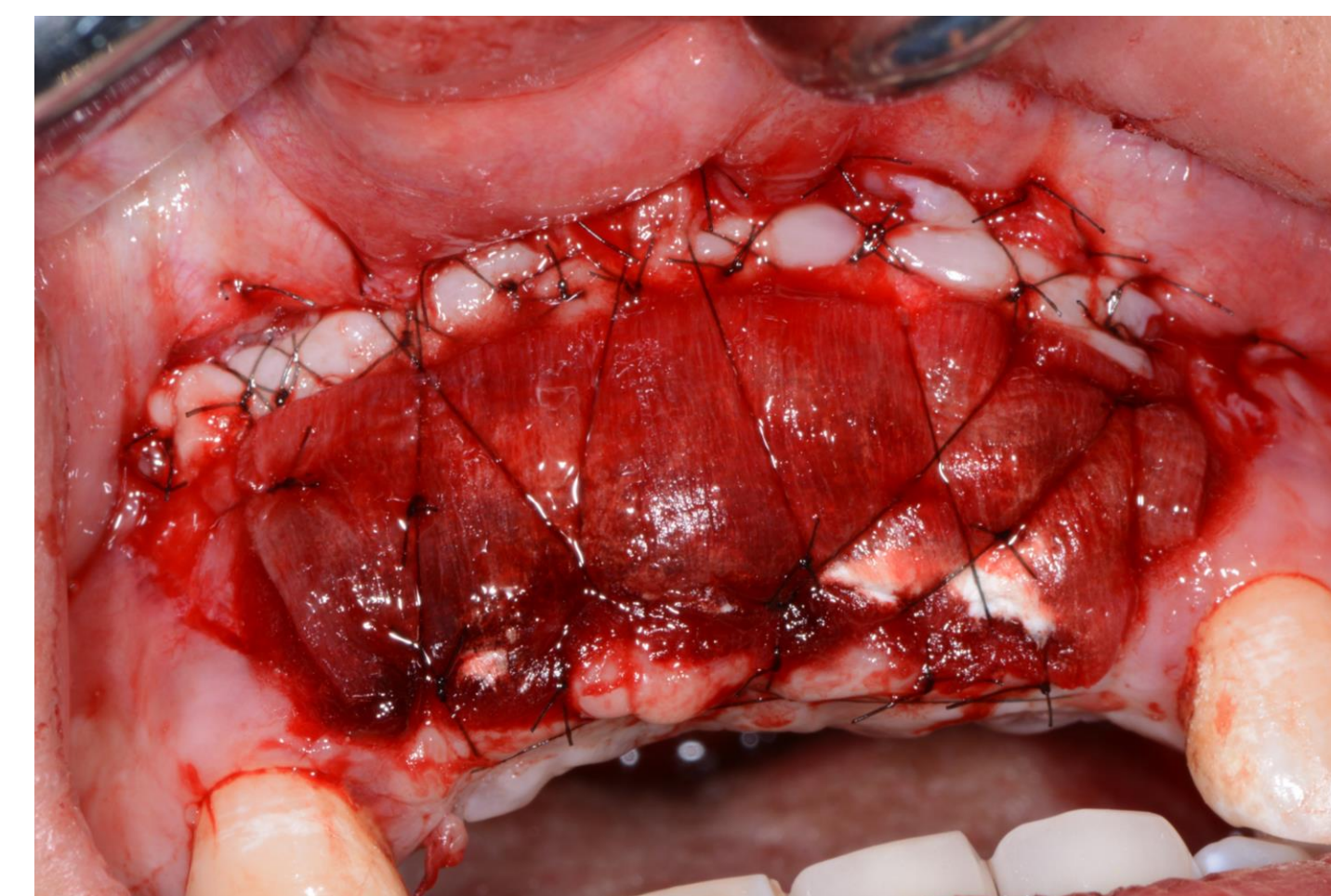
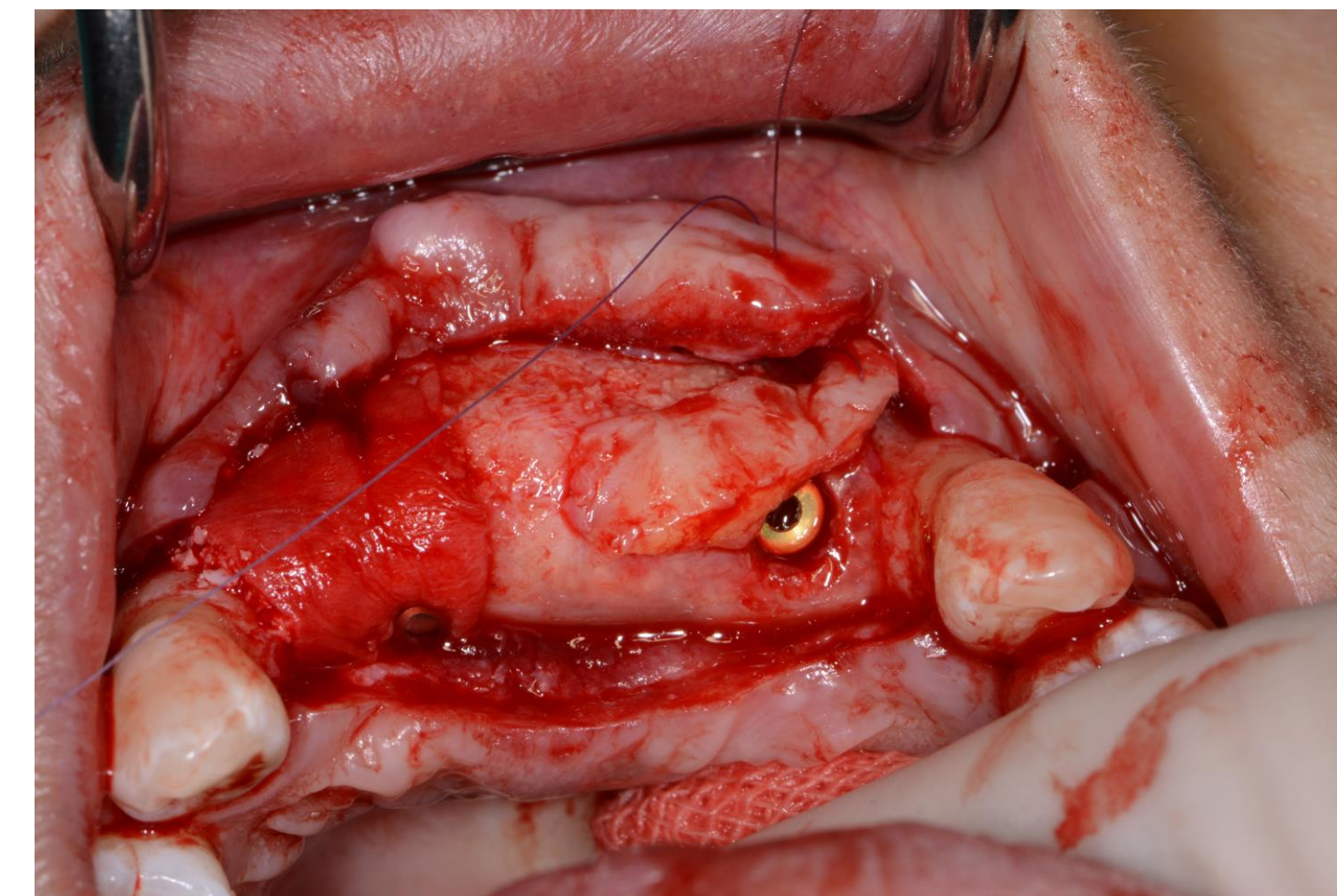
Methods

The "GBR technique" was used for staged alveolar ridge bone augmentation and implantation, the "strip technique" was employed for vestibular groove reconstruction, contouring of the gingival emergence and bridge base was performed, and the final restoration was achieved with implant-supported zirconia bridges. A one-year follow-up was conducted post-surgery.



Results

The vertical bone augmentation height was well-maintained, and the keratinized gingiva at the margins of the restoration remained stable, indicating good maintenance of soft and hard tissue augmentation



Conclusion

The GBR technique for reconstructing severe horizontal and vertical alveolar ridge bone defects, combined with strip gingival grafts (Strip)/xenogenic collagen matrix (XCM) and soft tissue flap transplantation techniques to widen keratinized gingiva, can achieve stable bone tissue augmentation and widening of keratinized gingiva.

