

Pinned-amalgam Foundation by Utilizing a Provisional Shell as a Matrix: A Case Report

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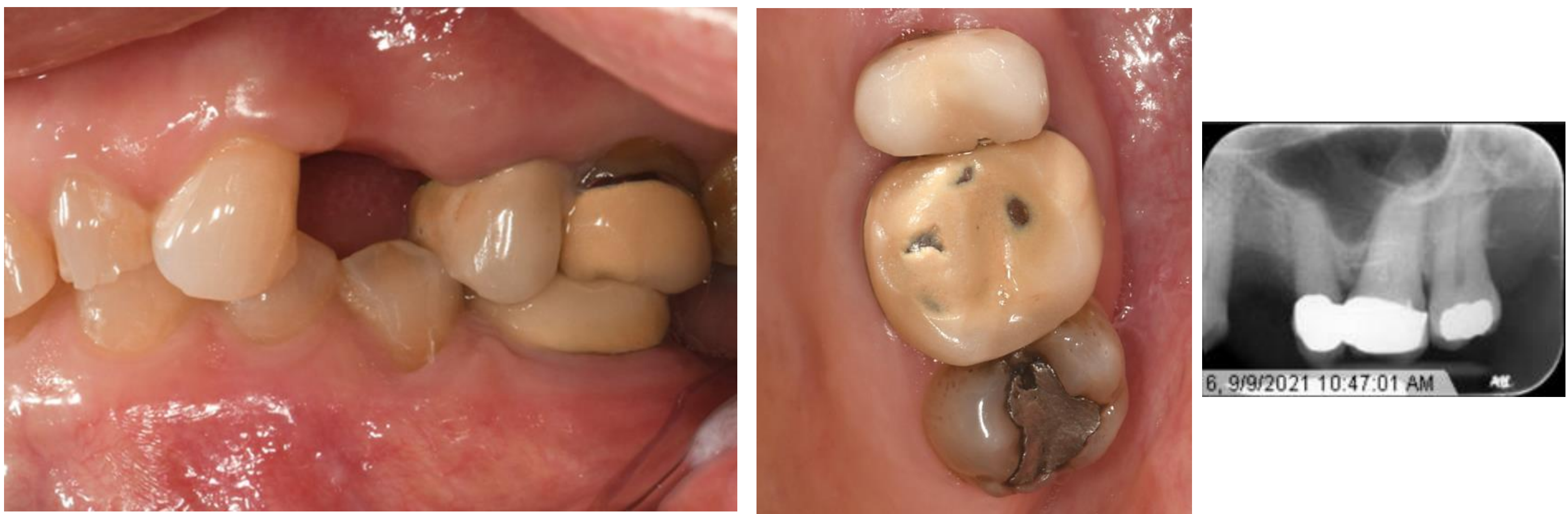


Objective

Describe a technique used to restore worn dentition using a pinned-amalgam as a foundation material and a provisional shell as a matrix.

Methods

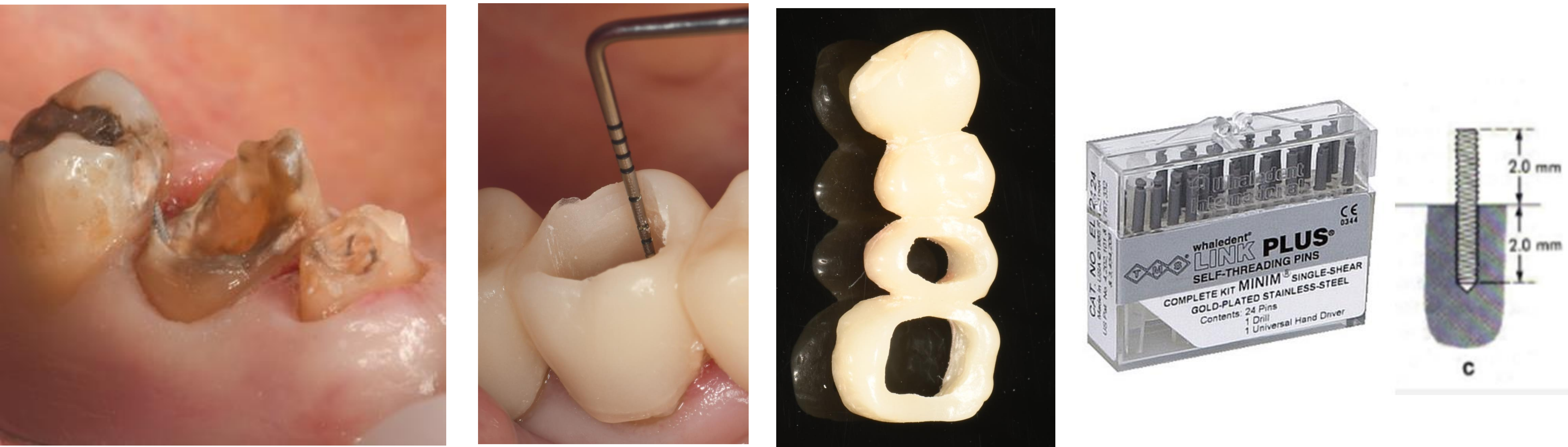
A sixty-nine-year-old patient with severely worn dentition presented to advanced prosthodontic clinic, UB SDM, for full-mouth reconstruction. #13,14 was diagnosed with insufficient abutment height and heavily calcified pulp and root canals



13,14 was prepared to receive zirconia fixed partial prostheses and provisionalized at the proposed vertical dimension using polymethylmethacrylate(PMMA) provisional prostheses



Existing restoration was removed to evaluate tooth structure. The provisional prosthesis were modified by removing occlusal surface, then distance from occlusal surface to tooth structure was measured determining the type of pin to be used and distance from intaglio surface of provisional restoration and remaining tooth structure was used to determine locations for pin placement.



Self-threading pin (TMS minim, Coltene, OH,USA) were placed at the pre-determined location. The provisional restoration was temporary cemented to adjacent abutments. Amalgambond plus (Parkell,NY,USA) was applied. Amalgam was condensed through occlusal opening of the provisional matrices. Excess amalgam was removed, and occlusion checked.



Result

Provisional was section and removed 24 hours later. #13-14 were prepared for final impression and definitive restoration.

Conclusion

This report suggests a technique used to restore severely worn dentition using a pinned amalgam as a foundation material and a provisional shell as a matrix.

References

Erickson DM. Using a posterior provisional crown as a matrix for an amalgam foundation. J Prosthet Dent. 2010 Dec;104(6):352