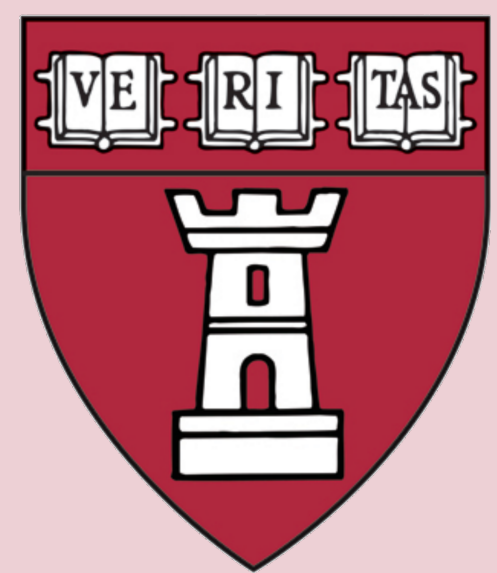




Maxillary Interim Obturator Prosthesis Fabrication Using a Digital-Analog Workflow: A Case Report

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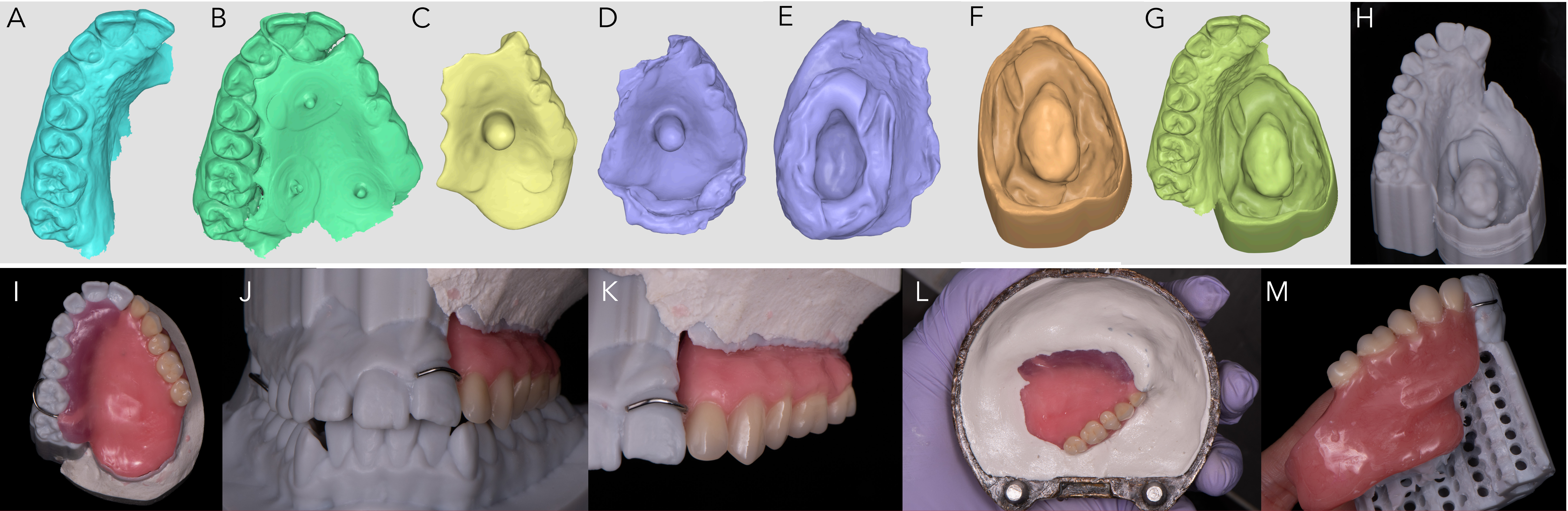
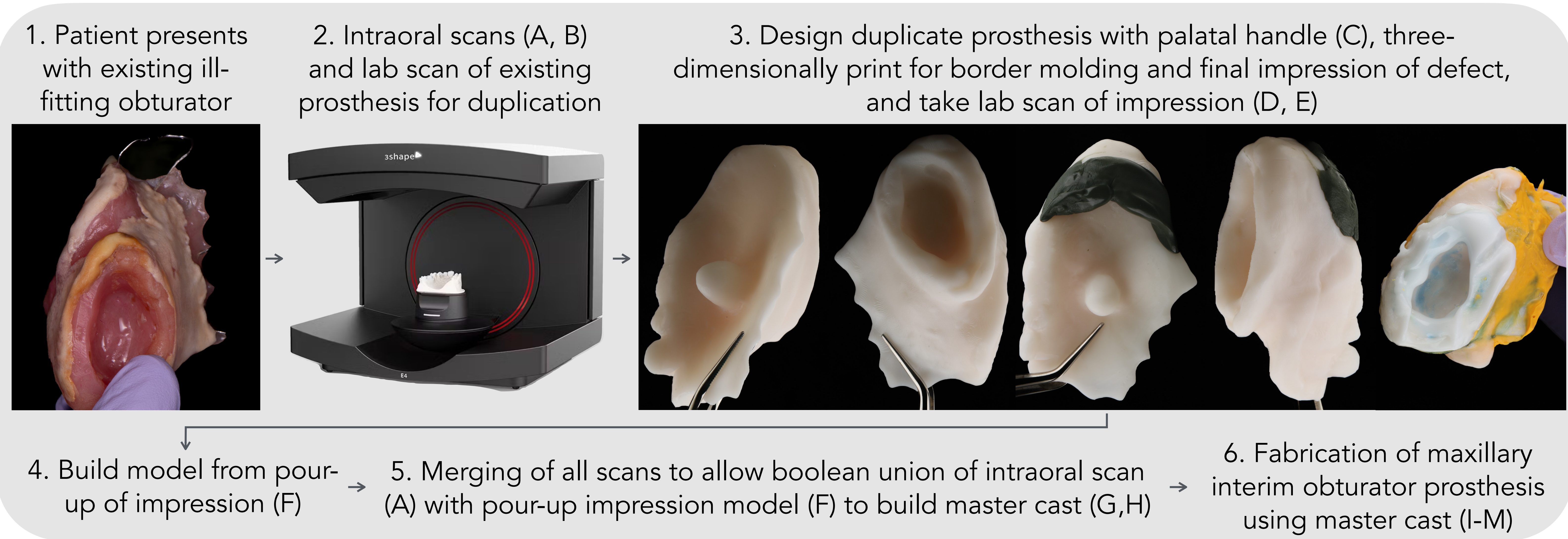
Objectives

Digital dental technology has shown great promise in the prosthetic treatment of maxillofacial defects. However, limitations exist with the difficulty for intraoral scanners to accurately capture functional defect morphologies. A hybrid digital-analog workflow for the fabrication of a maxillary obturator prosthesis can be utilized.

Case History

- 15-year-old female
- Osteosarcoma in 2017 at age 8
 - Previous treatment: partial maxillary resection, radiation, and chemotherapy
 - Planned treatment: orthodontic treatment prior to reconstruction of the maxilla, nasal cavity, and orbital floor

Workflow



Outcome



Conclusions

- The master cast was able to be used for fabricating a maxillary interim obturator fitting over orthodontic bonded brackets, which was delivered to the patient without requiring a soft relin of the defect.
- This case illustrates how the combination of digital and analog methods can overcome some of the limitations of current digital dental technology with intraoral scanners, offering an innovative solution for the management of complex maxillofacial defects.

References

