

Applying Functionally Generated Path to a Digital Workflow



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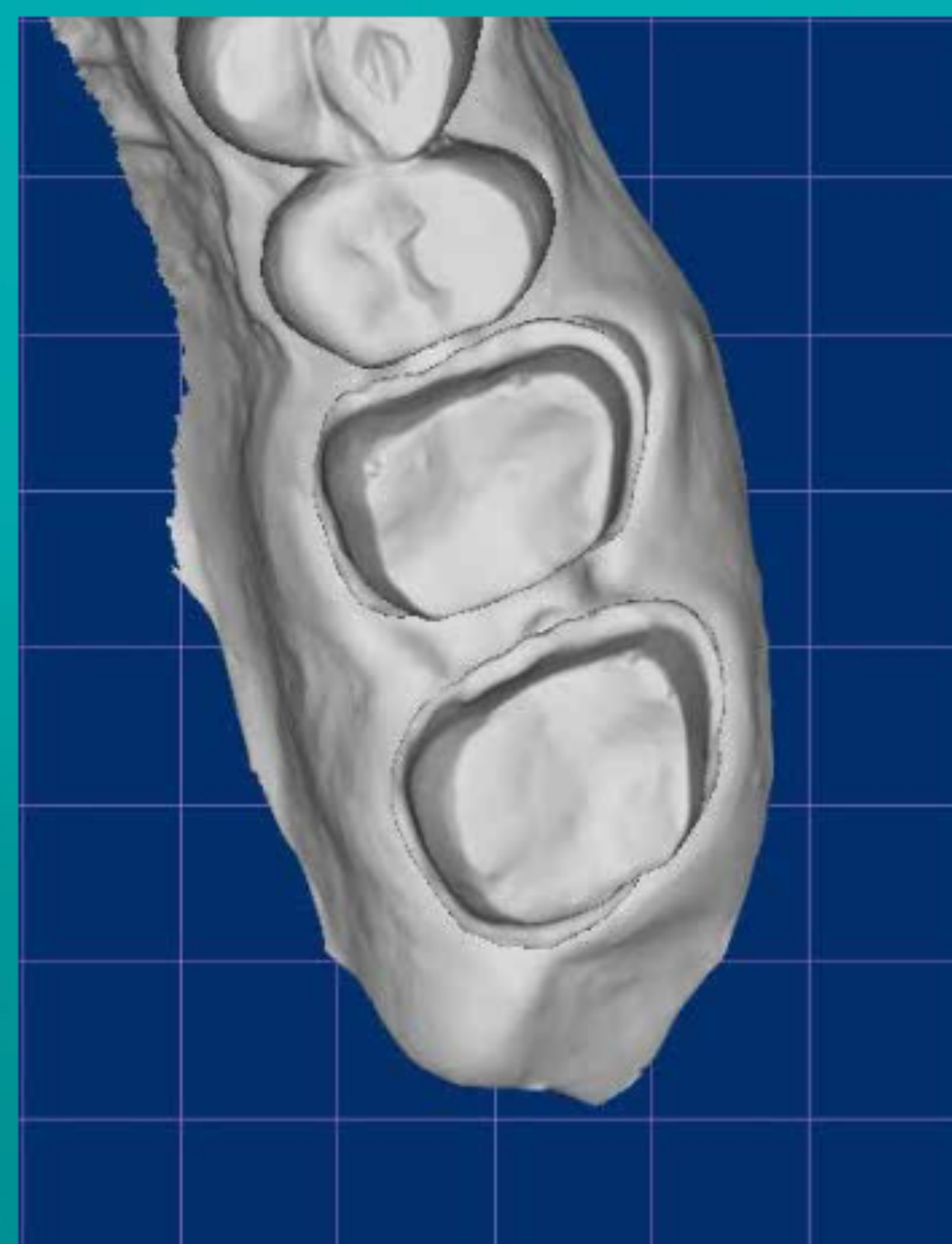


Statement of Problem:

The Functionally Generated Path (FGP) can produce a restoration requiring minimal occlusal adjustment at delivery. However, traditional FGP methods do little to minimize laboratory steps. In traditional methods, a stone core is poured into the FGP record to create an antagonist, against which to fabricate the restoration.

Purpose:

To adapt the FGP to a digital workflow. A subtractive method was used in which occlusal anatomy was carved chairside, creating a surface that could be scanned and copied in the final restoration.



Materials and Methods:

Two molars prepared for crowns. Preparations and interocclusal record scanned intraorally.



PMMA copings:

- Designed
- Milled
- Reduced 1mm Occlusally

PMMA "Buttons":

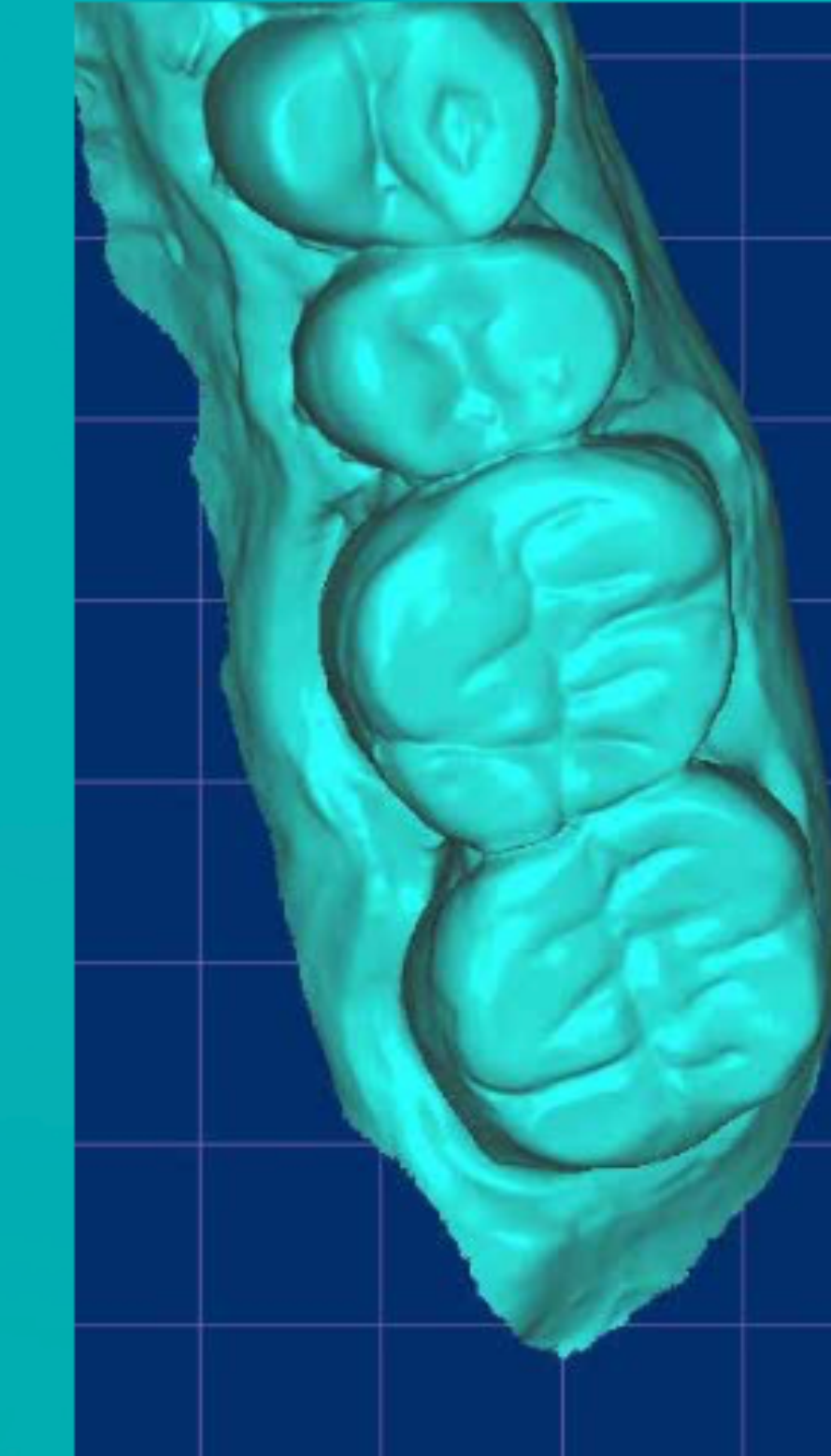
- Placed/Trimmed Intraorally
- Maintain Contacts in MIP



FGP Recording Wax:

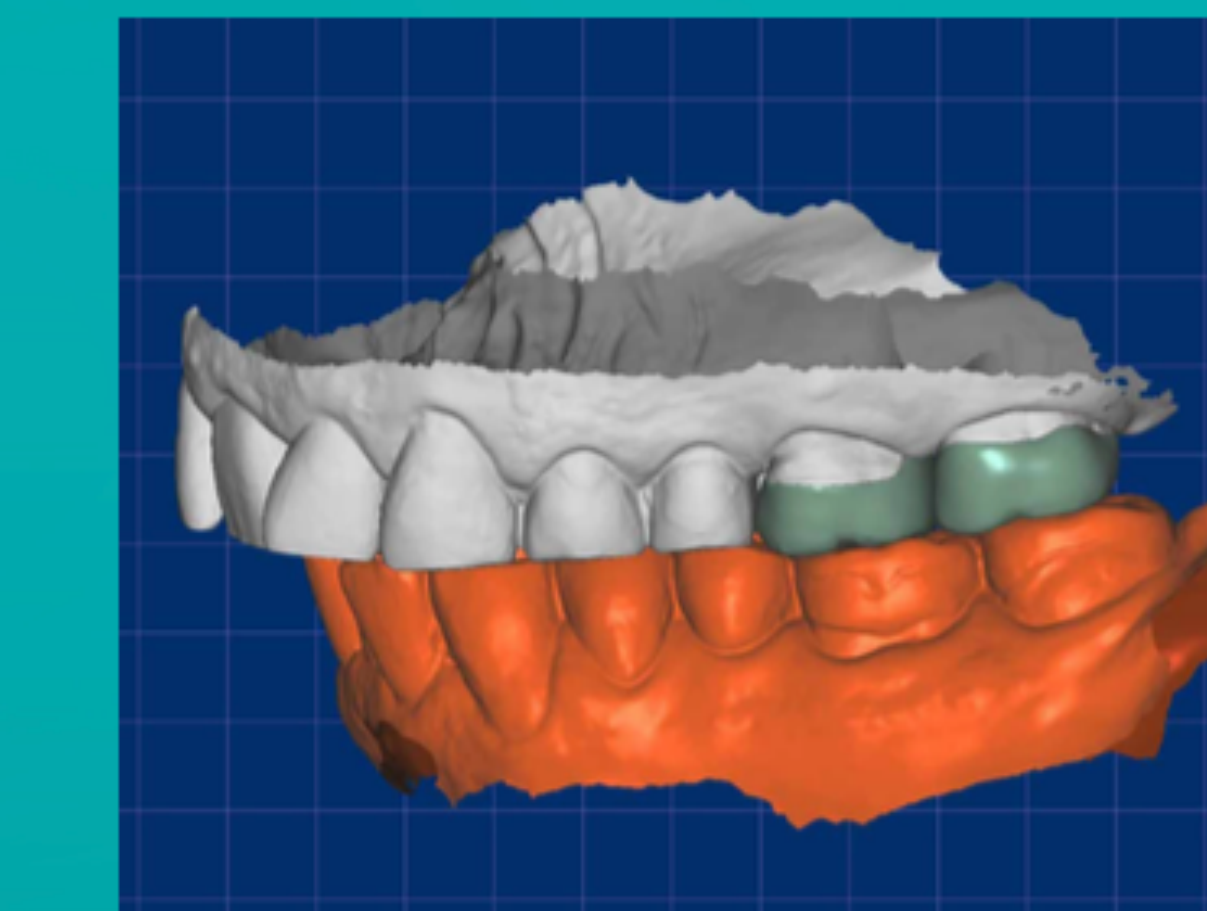
- Patient Guided through Excursions

The views expressed in this table clinic are those of the author and do not necessarily reflect the official policy or position of the Department of the Navy, Department of Defense, or the U.S. Government



Scanned patterns defined as "pre-operative" and final designs adapted to this.

Patterns scanned intraorally after carving occlusal anatomy



Note: Heavy occlusal wear



Crowns delivered

Results

Provided a predictable and efficient way of producing occlusally accurate restorations, requiring minimal adjustment at delivery.