

Crown Fabrication Steps

T R E A T M E N T S E Q U E N C E

#	Date	Clinic	Lab Work
1		Diagnostics <ul style="list-style-type: none"> Signed Tx Plan Alginate Impressions Occlusal Analysis Facebow + MI Record 	Pour Diagnostic Casts + Mount Diagnostic Wax-Up, Duplicate Cast, + Create Matrix for Interim
2		Foundation / Cast Post + Core (if necessary)	N/A
3		Tooth Preparation + Interim	Fabrication of Custom Trays (2)
4		Finalize Preparation + Interim Final Impression + Shade Selection	Pour Final Cast + Pindex (Send to lab → 7 – 9 business days required before next appointment)
5		Delivery (Sign delivery consent)	N/A

Patient Information:

Patient Initials + Axium #: _____ Tooth #: _____ Begin Date: _____
 Faculty: _____ Days Available: _____ Experience #: _____

Chief Complaint / History:

Medications:

Health Conditions:

Allergies:

Radiographs Reviewed / Needed
☐ PA
 ☐ BW
 ☐ FMX
 ☐ Panoramic
 Date Taken: _____

Materials Considered

☐ Zirconia ☐ E.max ☐ PFM ☐ Full Metal ☐ Temp

material: _____

Treatment Plan Signed?

☐ Yes ☐ No

Preauthorization?

☐ Yes ☐ No

Date Submitted: _____

Down Payment Collected?

☐ Yes ☐ No

Amount: \$_____ Date: _____

APPOINTMENT INFORMATION

1. Diagnostics

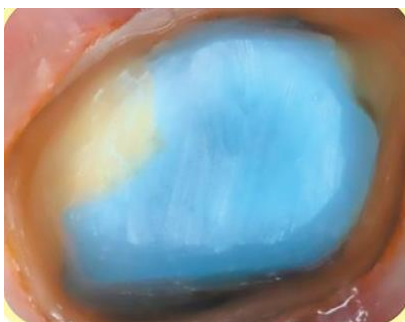
- Alginate Impressions, Facebow, + MI Record
- Also complete an Occlusal Analysis form to determine patient's current and planned occlusion after restoration is placed
- **Code:** D0470, S2008

2. Foundation Placement

- Choosing Appropriate Foundation Material

	2 – 3 mm Ferrule	< 2 mm	Substantial Structure Missing
Anteriors	Amalgam or Composite		Cast Post + Core
Premolars	Amalgam or Composite	Amalgam	Cast Post + Core
Molars	Amalgam or Composite	Amalgam	Amalgam Core Prefabricated Post

- Placing Foundation
 - Proper isolation
 - Etch, prime, + bonding agent
- **Codes:**
 - **D2950** – Core build-up, including any pins
 - **D2952** – Post and core in addition to crown, indirectly fabricated (custom/lab-made)
 - **D2953** – Each additional indirectly fabricated post
 - **D2954** – Prefabricated post and core in addition to crown (chairside)



3. Tooth Preparation + Interim

- Tooth Preparation
 - Know design of the tooth + appropriate reductions in advance!
 - Occlusal Reduction → Axial Reduction → Proximal Reduction → Margins
- Fabricate Interim using Vacuform matrix made previously
- **Codes:** S2001, S2005

4. Finalize Preparation + Take Final Impression

Codes: I6002 + S2002 (S2001 + S2005 as needed)

5. Deliver Crown

- Use PISMOES to try-in the crown + adjust
 - Proximal Contacts
 - Internal Fit
 - Stability
 - Margins: check visually + with explorer
 - Occlusion
 - External Contour
 - Surface Finish (Polish)
- Cement Crown
 - Remove Interim Crown + clean tooth with pumice
 - Apply thin layer of cement to the intaglio surface of the crown + seat with firm pressure
 - Remove excess cement after 2 minutes **or** tack cure (RelyX cement will fully set after 5 minutes + will be extremely hard to remove)
 - Recheck occlusion
- Radiograph if indicated (some insurances may require Anterior PA or Posterior BW)
- Codes: D27XX (see list for appropriate code), I6004 Experience/PASS, S2004
 - BW: D0270
 - PA: D0220

Iowa Codes for Various Crown Procedures

- **D2710** – Crown, resin (laboratory)
- **D2712** – Crown, resin-based composite
- **D2720** – Crown, resin with high-noble metal
- **D2721** – Crown, plastic with predominantly base metal
- **D2740** – Crown, porcelain/ceramic
- **D2750** – Crown, porcelain fused to high-noble metal
- **D2751** – Crown, porcelain fused to predominantly noble metal
- **D2752** – Crown, porcelain fused to noble metal
- **D2781** – Crown, $\frac{3}{4}$ cast predominantly base metal
- **D2790** – Crown, full cast high-noble metal
- **D2791** – Crown, full cast predominantly base metal
- **D2792** – Crown, full cast noble metal

Additionally:

- **D2971** – Add-on: building a new crown under an existing partial denture framework
- **D2999** – Unspecified restorative dental procedure
- **D2928** – Prefabricated porcelain/ceramic crown for a permanent tooth