



## Step-by-Step Restorative Protocol

### FIRST APPOINTMENT

- Take preliminary impressions
- Duplicate existing prosthesis
- Select tooth shade

**9 Days In Lab TO FABRICATE**

### SECOND APPOINTMENT

- Insert multi-unit abutments
- Seat and lute the implant verification jig
- Take final impression with custom tray
- Try in wax rim, evaluate and adjust
- Take a bite registration with wax rim

**5 DAYS IN LAB TO FABRICATE**

### THIRD APPOINTMENT

- Try in wax setup and verify
- Select gingival shade

**6 DAYS IN LAB TO FABRICATE**

### FOURTH APPOINTMENT

- Try in the provisional implant prosthesis and confirm
- Review oral hygiene instructions

**8 DAYS IN LAB TO FABRICATE  
(PROVISIONALIZATION PERIOD: 1-4 WEEKS)\***

### DELIVERY APPOINTMENT

- Deliver definitive BruxZir<sup>®</sup> prosthesis
- Reinforce oral hygiene instructions

*\*Based on Crown World's experience fabricating full-arch implant restorations, a trial period of 1-4 weeks avoids occlusal wear to the provisional implant prosthesis and helps ensure an accurate final restoration.*

# FIRST APPOINTMENT

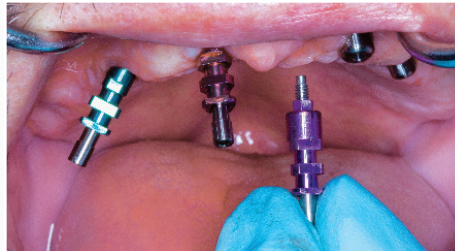
## Preliminary Impressions and Prosthesis Duplication



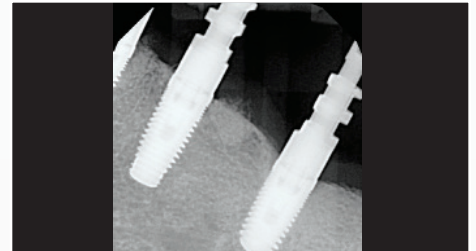
**Note:** Open-tray impressions are recommended for greater accuracy.



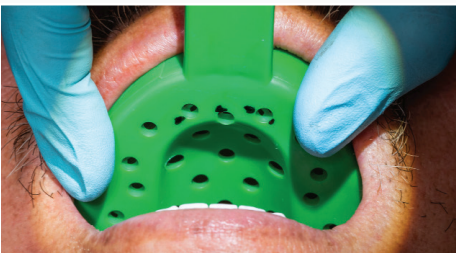
- ☐ Remove the patient's healing abutments or existing prosthesis.



- ☐ Seat impression copings.



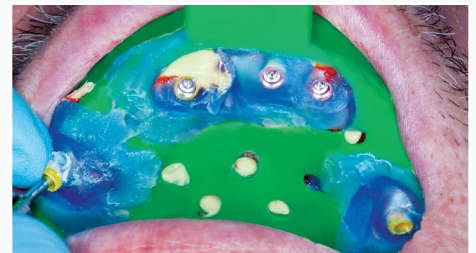
- ☐ Take periapical radiographs to verify complete seating.



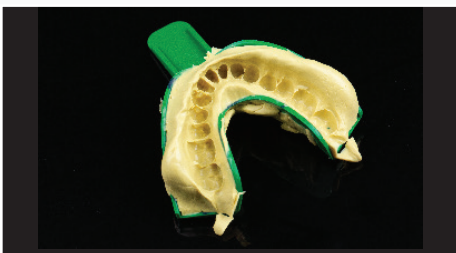
- ☐ Check the impression tray for proper fit.



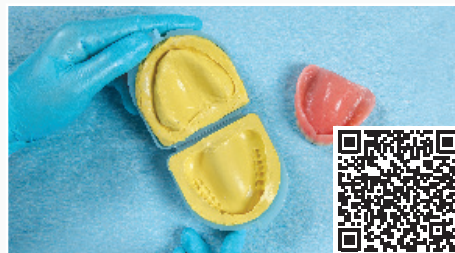
- ☐ Prepare holes in the tray that align with each coping.



- ☐ Take a VPS impression of the edentulous arch.



- ☐ Take a VPS impression of the opposing arch.



- ☐ Duplicate the patient's existing prosthesis or denture using VPS putty. For assistance with denture duplication, contact Crown World.



- ☐ Replace the patient's healing abutments or existing prosthesis. Complete an Rx, identifying implant system and diameters. Take a bite registration.



- ☐ Select the tooth shade. List any changes to the existing denture or prosthesis on the Rx.



- ☐ Send the impressions, completed Rx and a smile photo of the patient wearing existing denture or prosthesis to Crown World.

**Have questions? Call 866-497-3699 or check out our how-to videos below.**



Preliminary Impression



Prosthesis Duplication

# SECOND APPOINTMENT

Multi-Unit Abutments, Implant Verification Jig, Abutment-Level Impressions, Wax Rim and Bite



- Remove the patient's healing abutments or existing prosthesis.



- Seat the multi-unit abutments. Refer to case box insert for detailed instructions on how to seat multi-unit abutments.



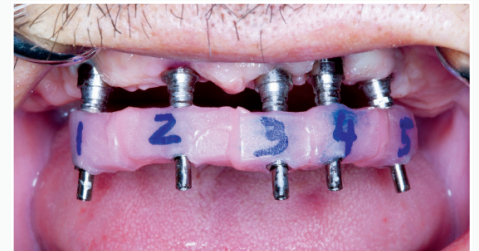
- Seat each section of the jig onto the appropriate multi-unit abutment.



- After seating, make sure the individual sections of the jig do not touch each other.



- Lute the sections together with a flowable composite (e.g., Camouflage® NanoHybrid Composite or another suitable material).



- Allow the material to flow through and completely around the gaps. Ensure the material is completely cured.



- Inject VPS impression material (e.g., Capture® Impression Material) under and around the jig to capture the ridge and all anatomical landmarks as for a full denture including full vestibular extensions.



- Using VPS material and the custom tray, take the final impression, ensuring that the guide pins emerge through the appropriate holes in the custom tray.



- Attach the wax rim directly to the multi-unit abutments with the enclosed prosthetic screws. Confirm the wax rim seats passively.

Review checklist, making sure to complete each item. Make adjustments to the wax rim as necessary.

<input type="checkbox"/>	Confirm Tooth Shade
<input type="checkbox"/>	Midline
<input type="checkbox"/>	Incisal Edge Position
<input type="checkbox"/>	Lip Support
<input type="checkbox"/>	Smile Line/Occlusal Plane
<input type="checkbox"/>	Vertical Dimension of Occlusion
<input type="checkbox"/>	Phonetics
<input type="checkbox"/>	Bite Registration
<input type="checkbox"/>	Clinical Smile Photo



Evaluate midline.



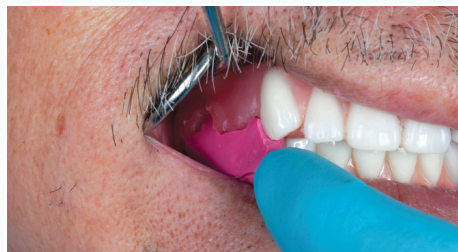
Evaluate incisal edge position and lip support.



Establish the occlusal plane.



Establish vertical dimension of occlusion (VDO).



Take a bite registration in centric relation.



Take clinical photos of the smile.



☐ Remove the wax rim and bite registration. **If the patient is wearing a denture, leave the multi-unit abutments in place, cover them with the enclosed multi-unit abutment temporary healing caps and relieve the intaglio surface of the denture to seat over the multi-unit abutments.**

If the patient is wearing a fixed provisional, remove the multi-unit abutments and return them to their original positions on the master cast. Then, reinsert the prosthesis.

☐ Return the case to Crown World.

**NOTE:** Unless the patient is wearing a fixed provisional, once the multi-unit abutments are seated, do not remove them from the patient's mouth.

**Have questions? Call 866-497-3699 or check out our how-to videos below.**



Utilize Implant Jig



Adjust Wax Rim

# THIRD APPOINTMENT

Try in the Wax Setup



## RESET APPOINTMENT (If necessary)

Try in the Reset Wax Setup (if necessary)

- Try in reset wax setup according to Third Appointment instructions.
- Return the wax setup and list any adjustments on the Rx.



**NOTE:** Before approving the wax setup and moving on to Fourth Appointment, make sure the esthetics and occlusion are 100% correct and verified. Up to two provisionals implant prostheses are included with the complete service; any additional provisionals will incur a fee of \$330 each.



- If the patient is wearing a denture, remove the multi-unit abutment temporary healing caps. If the patient is wearing a fixed provisional, remove the prosthesis and reinsert the multi-unit abutments.



- Attach the wax setup directly to the multi-unit abutments with the enclosed prosthetic screws.



- Confirm that the wax setup seats passively. Take a radiograph to confirm that the cylinders are fully seated.

- Review checklist, making sure to complete each item. Make adjustments to the wax setup as necessary.

<input type="checkbox"/>	Midline
<input type="checkbox"/>	Incisal Edge Position
<input type="checkbox"/>	Lip Support
<input type="checkbox"/>	Smile Line/Occlusal Plane
<input type="checkbox"/>	Vertical Dimension of Occlusion
<input type="checkbox"/>	Phonetics
<input type="checkbox"/>	Clinical Smile Photo
<input type="checkbox"/>	Bite Registration (If Needed)



- Verify the midline.



- Verify incisal edge position and lip support.



- Verify the occlusal plane.



- Verify the vertical dimension of occlusion (VDO).

**NOTE:** If the bite is incorrect, grind or remove setup teeth to achieve an accurate bite.



Verify the patient's bite and take a new bite registration if necessary.



Take clinical photos of the smile.

**NOTE:** Before approving the wax setup and moving on to the Fourth Appointment, make sure the esthetics and occlusion are 100% correct and verified. Up to two provisionals implant prostheses are included with the complete service; any additional provisionals will incur a fee.



Remove the wax rim and bite registration. If the patient is wearing a denture, leave the multi-unit abutments in place, cover them with the enclosed temporary healing caps and relieve the intaglio surface of the denture to seat over the multi-unit abutments. If the patient is wearing a fixed provisional, remove the multi-unit abutments and return them to their original positions on the master cast.



Select the gingival shade.



Return the wax setup and list any adjustments on the Rx.

**Have questions? Call 866-497-3699 or check out our how-to videos below.**



BruxZir® Implant Setup

# FOURTH APPOINTMENT



## Delivery of the Provisional Implant Prosthesis

**NOTE:** Up to two provisional implant prostheses are included with the complete service; any additional provisionals will incur a fee.

The provisional implant prosthesis is easily modified chairside. Adjustments to the intaglio or occlusal surfaces of the provisional can be made by adding flowable composite or removing material with an acrylic bur.



☐ If the patient is wearing a denture, remove the multi-unit abutment temporary healing caps. If the patient is wearing a fixed provisional, remove the prosthesis and reinsert the multi-unit abutments.



☐ Seat the provisional implant prosthesis on the multi-unit abutments.



☐ Hand-tighten the enclosed prosthetic screws, alternating from one side to the other. Confirm that the provisional implant prosthesis seats passively.



☐ Confirm esthetics, phonetics and function.



☐ Confirm occlusion. If significant changes are needed, take a new bite registration and return the case for a wax reset.



☐ Tighten the screws to 15 Ncm. Wait approximately 5 minutes and retorque the screws.



☐ Place Teflon tape in each screw access channel.



☐ Fill screw access channels with light cure composite.



☐ Confirm occlusion and make adjustments as necessary.



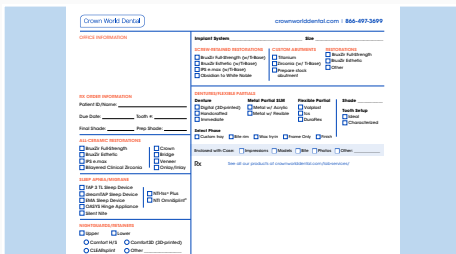
Review oral hygiene instructions with patient, including the use of floss threaders and a water flosser.



Confirm gingival shade. Based on Glidewell's experience fabricating full-arch implant restorations, a trial period of 1-4 weeks avoids occlusal wear to the provisional implant prosthesis and helps ensure an accurate final restoration.



If any adjustments were made, return the prosthesis and the master casts to the lab and list the adjustments on the Rx. If no adjustments were made, only the master casts must be returned.



If a bite splint is desired (additional fee), check the appropriate box on the Rx.

**Note:** Due to the potential of a bite discrepancy caused by occlusal wear, if changes are made to the provisional implant prosthesis, it must be returned. Based on Crown World's experience fabricating full-arch implant restorations, a trial period of 1-4 weeks avoids occlusal wear to the provisional implant prosthesis and helps ensure an accurate final restoration.

**Have questions? Call 866-497-3699 or check out our how-to videos below.**



Provisional Test

# DELIVERY APPOINTMENT

## Delivery of the Final Prosthesis



- ☐ Retighten multi-unit abutments to manufacturer-recommended torque.



- ☐ Seat the BruxZir® prosthesis on the multi-unit abutments.



- ☐ Hand-tighten the enclosed final prosthetic screws, alternating from one side to the other.



- ☐ Tighten the screws to 15 Ncm. Wait approximately 5 minutes and retorque screws.



- ☐ Place Teflon tape in each screw access channel.



- ☐ Fill screw access channels with light cure composite to prevent bacteria build-up.



- ☐ Confirm occlusion.



- ☐ Make adjustments if necessary.



- ☐ If adjustments were necessary, polish the affected areas. Reinforce oral hygiene instructions.

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Deliver BruxZir® Prosthesis

## POST-DELIVERY CHECK

- Verify occlusion
- Review oral hygiene instructions
- Establish recall schedule

## MAINTENANCE APPOINTMENTS

### How to Maintain the Final Prosthesis

*Note: Removal of the prosthesis NOT recommended. If the prosthesis is removed, prosthetic screws MUST be replaced.*

- Six-month hygiene appointment
  - Perform prophylaxis under the prosthesis
- Twelve-month (annual) hygiene appointment

Crown World Dental

866-497-3699 | crownworlddental.com

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