



All-Digital Step-by-Step Restorative Protocol Multi-Unit Abutment-Level with Fixed Prosthesis

FIRST APPOINTMENT

- Take digital impressions
- Scan the existing prosthesis
- Select tooth and gingival shade

9 DAYS IN LAB TO FABRICATE

SECOND APPOINTMENT

- Try in the digital implant verification jig (IVJ)
- Evaluate and adjust digital IVJ
- Acquire and send new scans to Glidewell

5 DAYS IN LAB TO FABRICATE

THIRD APPOINTMENT

- Try in 3D-printed setup
- Evaluate esthetics and function

6 DAYS IN LAB TO FABRICATE

FOURTH APPOINTMENT

- Seat the provisional implant prosthesis
- Review oral hygiene instructions

**8 Days In Lab TO FABRICATE
(Provisionalization period: 1–4 weeks)***

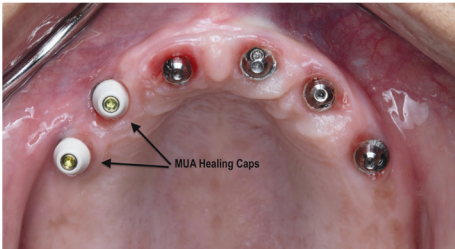
DELIVERY APPOINTMENT

- Deliver definitive BruxZir[®] prosthesis
- Reinforce oral hygiene instructions

**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.*

FIRST APPOINTMENT

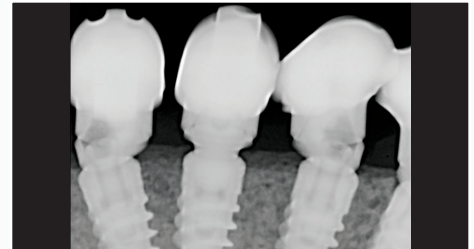
Digital Impressions



- Remove the patient's prosthesis. Scan the edentulous ridge and multi-unit abutments (MUAs), with or without MUA healing caps in place.



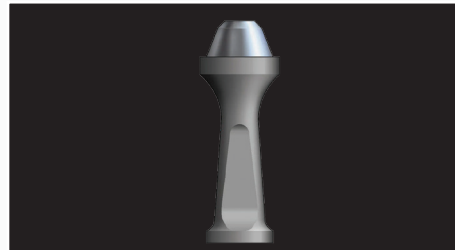
- Confirm that the MUAs are tightened to the manufacturer-recommended torque value. Attach multi-unit abutment scan bodies to the MUAs.
Note: Crown World accepts scans using PREAT® Multi-Unit Scan Bodies, DESS® Intraoral Scan Bodies on Multiunit, and OPTISPLINT® Scan Bodies.



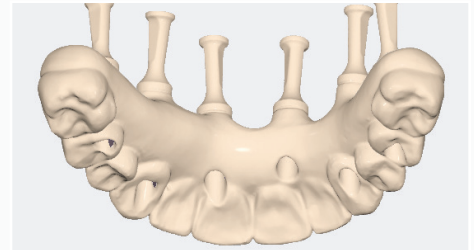
- If any of the MUA platforms are subgingival, take periapical radiographs to verify complete seating.



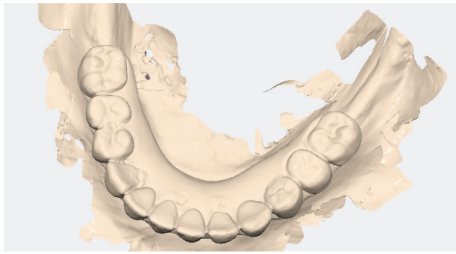
- Scan each implant site to capture the positions of the implants. Scan the tissue ridge of the edentulous arch, capturing as much of the ridge beyond the implant sites as possible. For maxillary cases, also scan the palate. For mandibular cases, scan as much of the attached gingiva as possible.



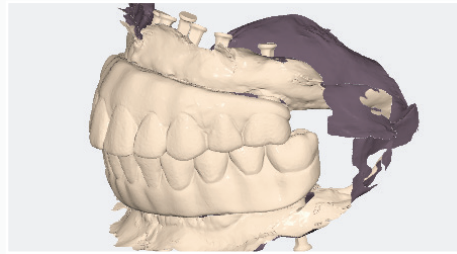
- Before taking an extraoral scan of the patient's existing prosthesis, Crown World highly recommends hand-tightening Inclusive® MUA EOscan Bodies or other reverse scan bodies onto the intaglio surface of the prosthesis.



- Take a complete 360° scan of the prosthesis outside the mouth.
Note: An intraoral or desktop scanner can be used for this purpose.



- ☐ Scan the patient's opposing dentition or prosthesis.



- ☐ Take a bite scan.
Note: The patient must have a prosthesis or dentition for each arch. If a wax rim is needed, contact Crown World at 866-497-3699



- ☐ If the patient's current vertical dimension of occlusion (VDO) is not open enough, use a leaf gauge or similar device to open the bite to the desired VDO. Then, use VPS material to secure the bite in the correct position during the bite scan.



- ☐ Replace the patient's fixed prosthesis.

- ☐ Upload the following STL scans via the My Account portal or directly from your scanner:

- Soft tissue
- Multi-unit abutment-level scan body
- Prosthesis
- Opposing arch
- Bite

Make sure to provide the following Rx information with your case submission via My Account or directly from your scanner:

- BruxZir Full-Arch Implant Prosthesis
- Desired tooth and gingival shade
- Implant system(s) and sizes
- Desired changes to the existing prosthesis
- Specify whether you'd like BruxZir Full-Strength or BruxZir Esthetic zirconia

SECOND APPOINTMENT



Seating and evaluation of digital IVJ, Inclusive® MUA EOScan Bodies



☐ Remove the patient's prosthesis.



☐ Seat the digital IVJ on the MUAs. Hand-tighten the enclosed prosthetic screws, alternating from one side to the other. Confirm that the digital IVJ seats passively.



☐ If a passive fit is not achieved, remove and then section the digital IVJ outside the patient's mouth. Then, completely reseal each section and lute the segments together.



☐ Review checklist, making sure to complete each item. Make adjustments to the digital IVJ as necessary, using a handpiece, drill and composite or acrylic to add and subtract material where needed.

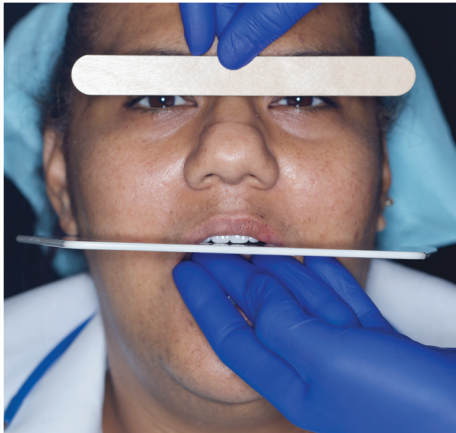


☐ If the midline is off, use a bur to indicate on the digital IVJ where the new midline should be.
Note: Do not use a marker to indicate midline as the marking will not be visible when sending the scan to the lab.

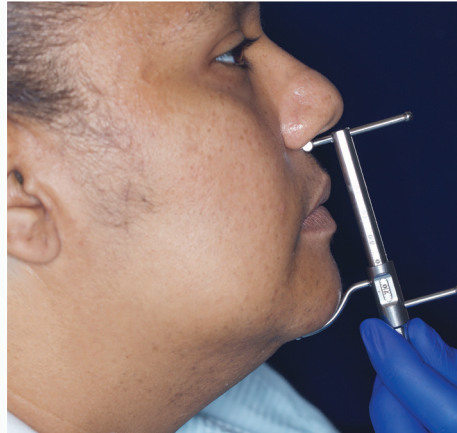


☐ Evaluate incisal edge position and lip support. If the teeth are too long, use bur to make adjustments. If the teeth are too short, add composite to make them longer.

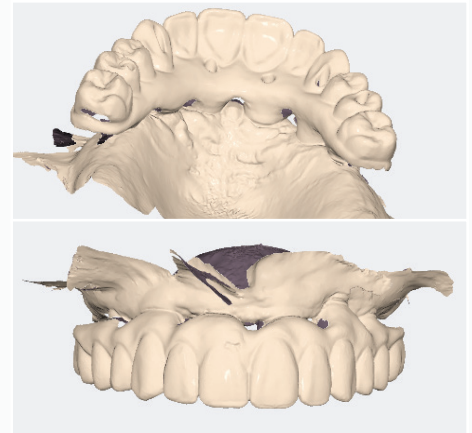
<input type="checkbox"/>	Midline
<input type="checkbox"/>	Incisal Edge Position
<input type="checkbox"/>	Lip Support
<input type="checkbox"/>	Smile Line/Occlusal Plane
<input type="checkbox"/>	Vertical Dimension of Occlusion
<input type="checkbox"/>	Phonetics
<input type="checkbox"/>	Bite Registration
<input type="checkbox"/>	Clinical Smile Photo or 3D Facial Scan



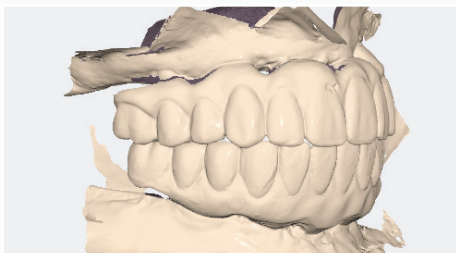
☐ Establish the occlusal plane.



☐ Establish the VDO.



☐ Take an intraoral scan of digital IVJ, capturing any changes. Then, scan the opposing dentition or prosthesis.



☐ Capture the patient's bite at the desired VDO using an intraoral scanner. When acquiring new scans, ensure that all changes are captured.



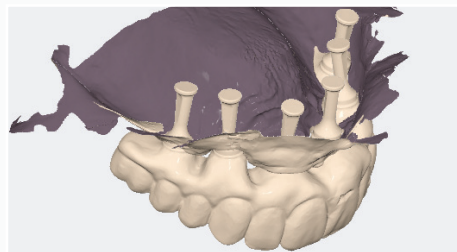
☐ Capture clinical photos or 3D facial scan of the smile.



☐ Remove the digital IVJ from the mouth. Leave the multi-unit abutments in place and reseal the prosthesis. Select the tooth and gingival shades.



☐ If the digital IVJ did not seat passively and re-luting was required, or if adjustments were made to the teeth, attach the provided Inclusive MUA EOScan Bodies to the digital IVJ and take a complete 360° scan.



- Upload the STL scan(s) and patient smile photo or 3D facial scan, and submit case via the My Account portal. Make sure to enter: "Digital IVJ Evaluation" under Rx information, along with the account number, patient name, the desired tooth and gingival shade, and a description of any adjustments made to the digital IVJ. If submitting scans directly from your scanner, please make sure to include these details in the case notes.

Note: If titanium inserts are not desired, please indicate the direct to multi-unit abutment screws you wish to utilize in the case notes when you send your scan(s).

THIRD APPOINTMENT

Try in the 3D-Printed Setup

RESET APPOINTMENT (If necessary)

Try in the Reset 3D-Printed Setup (if necessary)

- Try in reset 3D-printed setup according to Third Appointment instructions.
- If changes were made, scan the 3D-printed setup and indicate any adjustments when you submit your case.



Note: Before approving the 3D-printed setup and moving on to Fourth Appointment, make sure the esthetics and occlusion are 100% correct and verified. For the Fourth Appointment (see p. 9), a second provisional implant prosthesis can be fabricated if changes are needed to the design; any additional provisionals will incur a fee.

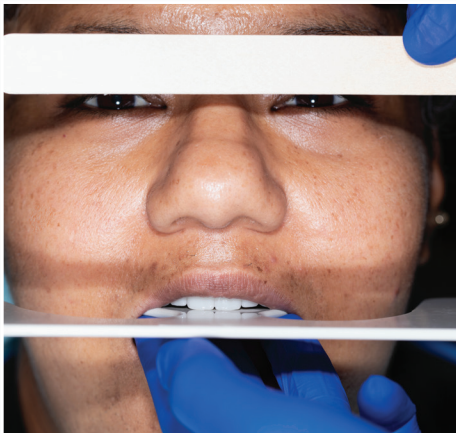


- Remove the patient's prosthesis and attach the 3D-printed setup directly to the MUAs with the enclosed prosthetic screws.



- Verify the midline.

- Review checklist, making sure to complete each item. Make adjustments to the 3D-printed setup as necessary, using a handpiece, drill and composite or acrylic to add and subtract material where needed.



- Verify incisal edge position and lip support.



- Verify the occlusal plane.

<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"/>	Occlusion
<input type="checkbox"/>	Clinical Smile Photo or 3D Facial Scan



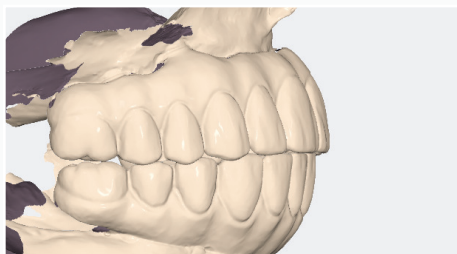
- Verify the VDO.



Note: If the bite is incorrect, use bur to make adjustments or add composite to achieve an accurate bite.



- ☐ Verify the patient's bite.



- ☐ Take a new scan if necessary. When acquiring new scans, ensure that all changes are captured.

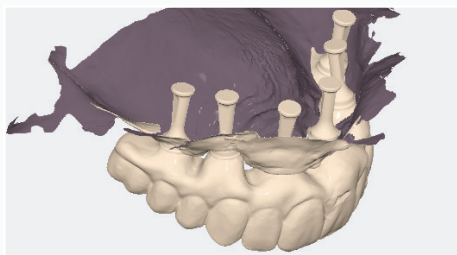


- ☐ Take clinical photos or 3D facial scan of the smile.

Note: Before approving the 3D-printed setup and moving on to Fourth Appointment, make sure the esthetics and occlusion are 100% correct and verified. For the Fourth Appointment (see p. 9), a second provisional implant prosthesis can be fabricated if changes are needed to the design; any additional provisionals will incur a fee.



- ☐ Remove the 3D-printed setup and reseal the patient's prosthesis.



- ☐ If any adjustments are made, taking a new extraoral scan using Inclusive MUA EOScan Bodies is highly recommended.

- ☐ If no changes were made to the 3D-printed setup, email mail@crowndental.com to request provisional implant prosthesis. Make sure to include: "Complete Service" in the subject line and "mill provisional from setup design" in your email, along with the account number, patient name, and desired tooth and gingival shade.

- ☐ If changes were made to the 3D-printed setup, upload the STL scan(s) and patient smile photo or 3D facial scan, and submit case via the My Account portal. Make sure to enter: "Setup Evaluation" under Rx information, along with the account number, patient name, the desired tooth and gingival shade, and a description of any adjustments made to the 3D-printed setup. If submitting scans directly from your scanner, please make sure to include these details in the case notes.

FOURTH APPOINTMENT



Delivery of the Provisional Implant Prosthesis

Note: For the Fourth Appointment, a second provisional implant prosthesis can be fabricated if changes are needed to the design; 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.



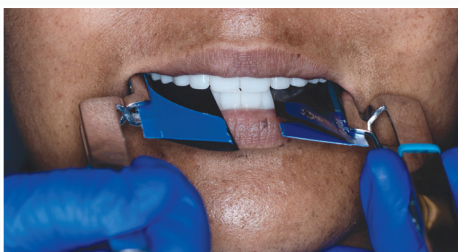
- ☐ Remove the patient's prosthesis and seat the provisional implant prosthesis on the multi-unit abutments.



- ☐ 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, make the necessary adjustments and take a new bite scan. When acquiring new scans, ensure that all changes are captured.



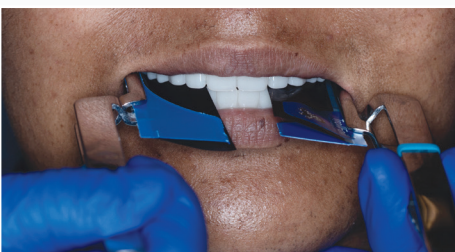
- ☐ Tighten the screws to the manufacturer-recommended torque value. Wait approximately 5 minutes and retorque the screws.



- ☐ When filling the screw access channels, it is recommended to follow the BruxZir bonding protocol, using light-cured composite to prevent bacterial buildup.



- ☐ Fill screw access channels with a suitable temporary material.



- ☐ 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 and tooth shades. Patient should wear the provisional implant prosthesis for 1–4 weeks.
- If no changes were made to the provisional implant prosthesis, after the 1–4 week trial period, please email mail@croworlddental.com to request final zirconia prosthesis. Make sure to include: “Complete Service” in the subject line and “mill final from approved provisional design” in your email, along with the account number, patient name, and confirmed tooth and gingival shade.
- If changes were made to the provisional implant prosthesis, upload the STL scan(s) and patient smile photo or 3D facial scan, and submit case via the My Account portal. Make sure to enter: "Provisional Adjustments" under Rx information, along with the account number, patient name, the confirmed tooth and gingival shade, and a description of any adjustments made to the provisional implant prosthesis. If submitting scans directly from your scanner, please make sure to include these details in the case notes.
- If a bite splint is desired (additional fee), include the request in the notes when you submit your case.

Note: Due to the potential of a bite discrepancy caused by occlusal wear, provisional implant prostheses worn by the patient longer than four weeks must be returned and may incur a redesign fee.

DELIVERY APPOINTMENT

Delivery of the Final Prosthesis



- ☐ Retighten MUAs to manufacturer-recommended torque.



- ☐ Seat the BruxZir prosthesis on the MUAs.



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



- ☐ Tighten the screws to the manufacturer-recommended torque value. Wait approximately 5 minutes and retorque screws.



- ☐ Place Teflon tape in each screw access channel.



- ☐ When filling the screw access channels, it is recommended to follow the BruxZir bonding protocol, using light-cured composite to prevent bacterial buildup.



- ☐ Confirm occlusion.



- ☐ Make adjustments if necessary.



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

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



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 free from mechanical complications. If the prosthesis is removed, prosthetic screws **MUST** be replaced. For recommended maintenance instructions, visit:

www.prosthodontics.org/about-acp/position-statement-maintenance-of-full-arch-implant-restorations/.



**SCAN FOR MAINTENANCE
RECOMMENDATIONS**

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