The BruxZir® Solid Zirconia Screw-Retained Hybrid Bridge offers a fixed, all-ceramic implant solution for edentulous patients desiring a stable and esthetic replacement for removable prostheses. Constructed from 100% BruxZir Solid Zirconia, this fully edentulous restoration offers exceptional resistance to chips, fractures and stains while improving chewing and speech function.

**FIRST Appointment**

Closed Tray Preliminary Impression

Consider anterior-posterior spread before moving forward with the BruxZir Solid Zirconia Full-Arch Implant Prosthesis option. Although a closed-tray impression technique is described here, open-tray impressions are acceptable.

- Take an implant-level impression, including the palate and vestibules for maxillary impressions.
  - a. Remove the healing abutments from the implants.
  - b. Seat the impression copings on the implants and tighten the screws (*Fig. 1*). Take a radiograph to verify complete seating. Check the impression tray for proper fit.
  - c. Take an implant-level impression of the edentulous arch (*Fig. 2*). After allowing the material to set, carefully remove the impression tray, loosen the screws and remove the impression copings.
  - d. Replace the healing abutments.
  - e. After attaching implant analogs to the impression copings, carefully replace the impression copings back into the impression.
  - f. Send in the case with a lab RX that identifies the system and diameter of the implants.

*Note: If the implants are more than 2 mm subgingival, have screw access holes that are too far to the facial, or require an angle correction greater than 10 degrees, an abutment-level restoration is recommended.*

*Figure 1: Seat the impression copings*

*Figure 2: Preliminary impression*
**SECOND Appointment**

Verification Jig, Open Tray Final Impression with Custom Tray, and Bite Rim

To ensure a passive fit of your restoration, it is vital to obtain an accurate final impression. You will receive a custom tray and an implant verification jig (IVJ) on a working model. This procedure should be followed to ensure an accurate final impression.

**Verification Jig**

☐ Remove the healing abutments from the implants.

☐ Seat each section of the jig onto the appropriate implant and tighten the guide pin (Fig. 3 & 4).

  a. The sections should not be in contact. If necessary, remove one section, minimally trim it with a disc, and reseat it. Each section should have a gap about the thickness of a credit card. Visually verify gaps before luting.

☐ Lute the sections together with a suitable material (e.g., Triad® DuaLine® – DENTSPLY; Pattern Resin™ – GC America; Zapit® – Dental Ventures of America or ADDS-IT – American Diversified Dental Systems) (Fig. 5).

  a. Allow the material to flow through and completely around the gaps (Fig. 5).

  b. Ensure the material is completely cured (Fig. 6).

  c. If any section has a cylinder-implant interface that is subgingival, a periapical radiograph should be taken to verify complete seating.

  d. If any cylinder is not completely seated, the jig must be sectioned in that area, reluted and rechecked until a passive fit is obtained.

  e. Check for a passive fit of the Custom Tray (no contact with jig or cylinders) prior to taking the impression (Fig. 7).
Final Impression

☐ Using medium body PVS material, take the final impression with an open-tray technique.

a. Inject impression material under and around the jig to capture the ridge and all anatomical landmarks as for a full denture including full vestibular extensions and the complete palate (Fig. 8).

b. Seat the filled impression tray ensuring the heads of the guide pins are exposed through the tray (Fig. 9).

c. Once the material has set, remove guide pins and then remove the impression (Fig. 10).

   Note: the verification jig is picked-up in the impression. Inspect the impression for the required detail.

☐ Reseat and tighten the healing abutments.

Bite Rim

You will receive a bite rim from Oral Arts.

☐ With the patient sitting up, use conventional denture techniques to achieve accurate jaw relation records.

☐ Take an impression of the opposing dentition and an impression of current denture for study model.

☐ Select the shade and mold of the denture teeth. The study model for the patient’s existing denture can be used as a reference regarding the size and shape of the new teeth.

☐ Return the case to Oral Arts with the master model, bite rim, bite registration, opposing impression and study model.

CAD/CAM PMMA Verification Bridge

☐ Optional – If desired, a provisional CAD/CAM PMMA Verification Bridge with Pink Tissue may be ordered prior to completing the case to be worn by the patient as a screw-retained temporary.

   Price with implant labor, without implant parts......$330

Figure 8: Inject impression material under the implant verification jig

Figure 9: Inject light body around tissue and implant sites then load tray with heavy body PVS and seat tray

Figure 10: Remove tray after removing all guide pins

Figure 11: Seat the bite rim

Bite Rim

You will receive a bite rim from Oral Arts.

☐ With the patient sitting up, use conventional denture techniques to achieve accurate jaw relation records.

☐ Take an impression of the opposing dentition and an impression of current denture for study model.

☐ Select the shade and mold of the denture teeth. The study model for the patient’s existing denture can be used as a reference regarding the size and shape of the new teeth.

☐ Return the case to Oral Arts with the master model, bite rim, bite registration, opposing impression and study model.

CAD/CAM PMMA Verification Bridge

☐ Optional – If desired, a provisional CAD/CAM PMMA Verification Bridge with Pink Tissue may be ordered prior to completing the case to be worn by the patient as a screw-retained temporary.

   Price with implant labor, without implant parts......$330

Figure 8: Inject impression material under the implant verification jig

Figure 9: Inject light body around tissue and implant sites then load tray with heavy body PVS and seat tray

Figure 10: Remove tray after removing all guide pins

Figure 11: Seat the bite rim

Bite Rim

You will receive a bite rim from Oral Arts.

☐ With the patient sitting up, use conventional denture techniques to achieve accurate jaw relation records.

☐ Take an impression of the opposing dentition and an impression of current denture for study model.

☐ Select the shade and mold of the denture teeth. The study model for the patient’s existing denture can be used as a reference regarding the size and shape of the new teeth.

☐ Return the case to Oral Arts with the master model, bite rim, bite registration, opposing impression and study model.

CAD/CAM PMMA Verification Bridge

☐ Optional – If desired, a provisional CAD/CAM PMMA Verification Bridge with Pink Tissue may be ordered prior to completing the case to be worn by the patient as a screw-retained temporary.

   Price with implant labor, without implant parts......$330

Figure 8: Inject impression material under the implant verification jig

Figure 9: Inject light body around tissue and implant sites then load tray with heavy body PVS and seat tray

Figure 10: Remove tray after removing all guide pins

Figure 11: Seat the bite rim

Bite Rim

You will receive a bite rim from Oral Arts.

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☐ Select the shade and mold of the denture teeth. The study model for the patient’s existing denture can be used as a reference regarding the size and shape of the new teeth.

☐ Return the case to Oral Arts with the master model, bite rim, bite registration, opposing impression and study model.

CAD/CAM PMMA Verification Bridge

☐ Optional – If desired, a provisional CAD/CAM PMMA Verification Bridge with Pink Tissue may be ordered prior to completing the case to be worn by the patient as a screw-retained temporary.

   Price with implant labor, without implant parts......$330

Figure 8: Inject impression material under the implant verification jig

Figure 9: Inject light body around tissue and implant sites then load tray with heavy body PVS and seat tray

Figure 10: Remove tray after removing all guide pins

Figure 11: Seat the bite rim
THIRD Appointment

Setup Try-in

You will receive a wax setup from Oral Arts. The provisional CAD/CAM PMMA verification bridge will also be included if it was ordered.

- Seat the wax setup (acrylic base with teeth in wax).
- Evaluate the VDO, CR, esthetics, shade, tooth arrangement, occlusion, phonetics and midline (Fig. 12). If CR is incorrect, a new bite registration should be taken.
- Send clinical photos with patient at rest and smiling.
- Install the optional provisional CAD/CAM PMMA verification bridge according to Fourth Appointment instructions.
- Send in entire case, including the wax setup, opposing model, and lab Rx with reset instructions (if necessary). If a reset is necessary, new bite registration should also be taken (Fig. 13).

FOURTH Appointment

Delivery of Final Prosthesis

You will receive the final prosthesis from Oral Arts.

- Remove the healing abutments or the optional provisional CAD/CAM PMMA verification bridge.
- Seat the final prosthesis on the implants.
- Hand tighten the prosthetic screws, alternating from one side to the other.
- Tighten the screws to the appropriate torque per manufacturer instructions. Wait approximately 5 minutes and retorque the screws (Fig. 14).
- Confirm the occlusion (Fig. 15). Make adjustments as necessary.
- Place a small amount of cotton in the screw access holes and fill with light cure composite or acrylic to prevent bacteria build-up (Fig. 16).

Predictable implant lab fees and no hidden costs

Price for 4 implants includes: shipping both ways, custom tray, model work, 4 lab analogs, implant verification jig with parts, bite rim, wax setup and try-in, screw retained labor, and final bridge with pink tissue.

*Multi-unit abutments or additional implant parts are not included.

BruxZir Solid Zirconia Full-Arch Screw-Retained Hybrid Bridge ...........$2,931

CAD/CAM PMMA Verification Bridge, with Pink Tissue, with implant labor, without parts .................................................................$330
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<td></td>
<td>Implant-level impression</td>
<td>Fabricate implant verification jig and custom tray (4 days)</td>
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<td>Lute verification jig, take final impression, jaw relation records, select tooth shade/mold, impression of opposing dentition and current denture for study casts</td>
<td>Fabricate master cast, fabricate bite block (2 days) Articulate casts, set teeth in wax (3 days); fabricate provisional CAD/CAM PMMA Verification Bridge (optional- 3 days)</td>
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<td><strong>THIRD Appointment</strong></td>
<td>Wax setup try-in, photos, delivery of provisional CAD/CAM PMMA Verification Bridge (optional)</td>
<td>Fabricate final solid zirconia prosthesis (12 days) OR reset (if necessary – 4 days)</td>
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<td><strong>FOURTH Appointment</strong></td>
<td>Final prosthetic delivery</td>
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SCREW-RETAINED PROSTHESIS LIABILITY WAIVER
Only required if NOT following Clinical Protocol Impression Techniques

Model accuracy is paramount when completing any screw-retained cross arch implant prosthesis, whether that be a Screw-Retained Hybrid Denture with Titanium Bar or a Screw-Retained BruxZir Solid Zirconia Hybrid Bridge.

A correctly captured Open Tray Impression with Implant Verification Jig (IVJ) is the only way to achieve a model accurate enough to construct the prosthesis. Our experience has proven time and again that when an incorrect impression and unverified model are used to construct these appliances they either do not fit or fail catastrophically.

If you would like to proceed in case fabrication on an unverified model or an incorrectly captured impression, we require that this waiver be signed, dated, and emailed to the lab at info@oralartsdental.com or faxed to us at 256-539-8804. By signing, the lab’s liability is waived for improper fit or prosthesis failure.

The pages within the attached Clinical Protocol outline the exact steps to performing a Screw-Retained case with highly accurate results. Please follow these steps to avoid any wasted chair time or hardship due to poor fit or prosthesis failure. If case fabrication is proceeded apart from the laboratory’s required Clinical Protocol, a future remake due to poor fit or failure will result in lab charges up to full retail for each subsequent step in case completion. As always, our Management Team is also very willing to help advise you in how to achieve the most predictable outcome when fabricating a Screw-Retained Prosthesis.

Doctor Signature for release of lab liability for remake due to improper fit or prosthesis failure:

Printed Name:_________________________________________________________

Signature:__________________________________________Date:______________

Please fax or email to 256.539.8805 or info@oralartsdental.com