



■ First Appointment

– Preliminary Impressions

Utilizing a stock tray, take a preliminary impression, including the palate and vestibules (Fig. 1). This impression should be made at the implant level, as it will be used to fabricate an implant verification jig and a custom tray for an open-tray impression technique.

- Remove the healing abutments from the implants and seat impression copings (take a PA to verify seating if necessary).
- Take an implant level impression, including the palate and vestibules, using a stock tray.
- Take an impression of opposing dentition as well as the denture to be replaced.
- Remove impression copings and replace the healing abutments.
- Send in the impressions with your lab Rx.

Note: If due to the implant inclinations, or if there is excessive soft tissue thickness, abutments may be required (please see the Screw-Retained Denture Abutment Level Restoration instructions).

■ Second Appointment

– Jaw Relation Records, Verification Jig, Final Impressions and Shade Selection

To ensure a passive fit of your custom-milled framework, it is vital to obtain an accurate final impression. You will receive a bite block, custom tray and a verification jig that has been sectioned and numbered on a study model. Each acrylic section contains a non-engaging titanium cylinder. The following procedure should be followed to ensure an accurate final impression.

■ Jaw Relation Records

- Remove the healing abutments. Seat the bite block on the implants and tighten the cylinder screws (Fig. 2).
- With the patient sitting up**, use conventional denture technique to achieve accurate jaw relation records.
 - a. For maxillary cases, shape the rim for lip contour – place a small amount of vaseline on the labial aspect of the wax rim and confirm.
 - b. With the patient facing toward you, mark the midline, high lip line and corners of the mouth in the wax rim. Move the central incisors as necessary. From a profile view, evaluate the mid-face support.
 - c. Determine centric relation and the vertical dimension of occlusion (record passively).

Note: The patient's existing denture should be evaluated and can be utilized as a benchmark in determining the new VDO.

- i. Place a dot with indelible marker on the tip of the patient's nose and chin.
- ii. Have the patient lick their lips, swallow, then relax their jaw. Measure the distance between the two dots. Repeat this procedure 3-4 times until you obtain a consistent vertical dimension of rest measurement.
- iii. Have the patient bite together gently. The measurement should be approximately 3 mm less than the vertical measurement at rest. Adjust the

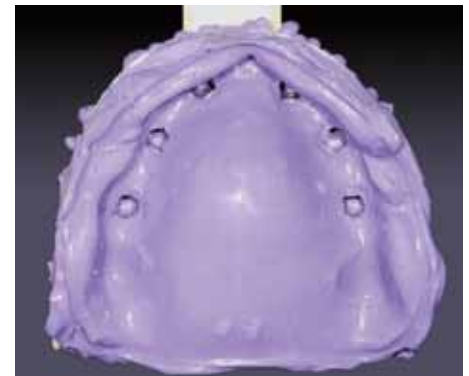


Fig. 1 Preliminary implant level impression



Fig. 2 Seat screw-retained bite block



Fig. 3 Use bite registration material once occlusal dimensions are determined



Fig. 4 Seat the sections of the implant verification jig and tighten the guide pins



Fig. 5 Implant verification jig sections luted together



Fig. 6 Inject impression material under the jig



Fig. 7 Take an open-tray impression

rims, if necessary, so they meet evenly.

- iv. There should be a 2-4 mm speaking space between the rims when the patient pronounces "s" sounds (e.g., Mississippi, sixty, sixty-one, etc.). The incisal edges of the maxillary central incisors should lightly touch the top of the lower lip during "f" sounds (e.g., forty, forty-one, etc.).
- d. Once the VDO and CR are established, inject bite registration material onto the top of the wax rim and into the notches on the bite block. Have the patient bite together gently, but completely (Fig. 3).

- Remove the bite block(s).

■ Verification Jig

- Seat each section of the jig onto the appropriate implant and tighten the guide pin.
 - a. The sections should not be in contact. If necessary, remove one section, minimally trim it with a disc and reseal it. Each section should have a gap about the thickness of a business card. Final check of the gap should be done with floss.
- Lute the sections together with a suitable material (e.g., Triad® DuaLine® DENTSPLY; Zapit®- Dental Ventures of America or ADDS-IT- American Diversified Dental Systems) (Fig. 4 and 5).
 - a. Allow the material to flow through, and completely around, the gaps.
 - b. Ensure the material is completely cured.
- Loosen and remove all the guide pins. Remove the jig as one unit for visible inspection.
- Very important** – Replace the cured jig back onto the implants. Tighten a single guide pin into one of the distal cylinders. No lifting of the jig should occur. Check for a passive fit by visually inspecting completely around each cylinder for complete seating. Repeat this process for each implant.
 - a. If any section has a cylinder-implant interface that is subgingival, a periapical radiograph must be taken to verify complete seating.
 - b. If any cylinder is not completely seated, the jig must be sectioned in that area, reluted and rechecked until a passive fit is obtained.

■ Final Impression

- Seat the verification jig on the implants and tighten all the guide pins.
- Check the custom impression tray for fit. (No contact with the jig or cylinders.)
- Using medium body 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 (Fig. 6).
 - b. Seat the filled impression tray, ensuring the heads of the guide pins are exposed through the tray (Fig. 7).
 - c. Once the material has set, remove the guide pins and carefully pull the impression.

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

- Reseat and tighten the healing abutments.

■ Shade Selection

- Select denture tooth shade and mould. The study model of the patient's existing denture can be used as a reference regarding the size and shape of the new teeth.

Note: We will match to VITA/Candulor Premium denture teeth unless otherwise directed. Indicate the selection on the lab Rx.
- Return the case to Glidewell enclosing all components, models and the final impression containing the jig.

■ Third Appointment

– Trial Set-Up Try-In

- You will receive from Glidewell Laboratories
a trial denture with temporary cylinders

- Remove healing abutments.
- Seat the trial denture and tighten the prosthetic screws.
- Evaluate CR, VDO, occlusion, esthetics/shade, tooth arrangement and phonetics including “f” and “s” sounds as well as the midline (Fig. 8). Change the set-up if necessary or note the requested changes on the lab Rx. If CR is incorrect, a new bite registration should be taken.
- Remove the trial denture and replace the healing abutments.
- Return the case to Glidewell.

■ Fourth Appointment

– Framework Try-In

- You will receive from Glidewell Laboratories
a trial denture set up on the titanium framework

- Remove healing abutments.
- Seat the framework.
- Evaluate the fit of framework. Tighten one screw and verify a passive fit on all implants (no lifting of the framework). Remove the screw and repeat the process for each implant (Fig. 9).
- Remove the framework and replace the healing abutments.
- Return the case to Glidewell.

■ Fifth Appointment

– Delivery of Final Prosthesis

- You will receive the final prosthesis from Glidewell Laboratories

- Remove healing abutments.
- Seat the prosthesis on the implants (or abutments).
- Hand-tighten the prosthetic screws, alternating from one side to the other.
- Tighten the screws to the appropriate torque. Wait approximately 5 minutes and re-torque the screws (Fig. 10).
- Place a cotton pellet or piece of gutta percha over the head of the screws and seal the openings with composite or acrylic.
- Cement the remaining crowns onto the framework (Fig. 11).
- Check the occlusion. Make adjustments as necessary (Fig. 12).

■ One Week Follow-Up Check

- Check occlusion.
- Review oral hygiene instructions.
- Set recall schedule.



Fig. 8 Trial denture try-in



Fig. 9 Framework on patient model



Fig. 10 Tighten abutment screws



Fig. 11 Seal the screw access openings and cement the remaining crowns into place



Fig. 12 Delivery of final prosthesis



Predictable implant lab fees and no hidden costs

Removable and Fixed-Removable

Price includes: CAD/CAM precision-milled titanium bars from BioCad, BioMet 3i or Nobel Biocare; Locator attachments from Zest Anchors; premium denture teeth from VITA; all labor, model and die work; analogs, set-ups, bite blocks, try-ins and verification jigs.

Removable

- Locator® Implant Overdenture (2 implants)
- CAD/CAM Ti Bar Locator Overdenture (5 implants)

Price includes: CAD/CAM precision-milled titanium bars from BioCad, BioMet 3i or Nobel Biocare; premium denture teeth from VITA (Acrylic Hybrid); individual zirconia crowns and composite gingival architecture (Ceramic Hybrid); all labor, model and die work; analogs, set-ups, bite blocks, try-ins and verification jigs.

Fixed-Removable

- CAD/CAM Ti Bar/Acrylic Hybrid (5 implants)
- CAD/CAM Ti Bar/Ceramic Hybrid (8 implants)

Note: Prices may vary based on the number of implants and the cost of ancillary components based on the system utilized.

Quick Reference

	Doctor	Glidewell
1st Appointment	Take preliminary impressions of edentulous arch and opposing dentition as well as the denture to be replaced.	Pour models; fabricate bite block, implant verification jig and custom tray.
2nd Appointment	Obtain jaw relation records, lute implant verification jig (IVJ), take final impression, select denture tooth shade and mould.	Pour master cast, articulate models, set denture teeth in wax.
3rd Appointment	Trial denture set-up try-in.	Fabricate titanium framework.
4th Appointment	Framework try-in.	Fabricate and lute individual all-ceramic crowns onto the framework. Add gingival composite and finish prosthesis.
5th Appointment	Final prosthetic delivery.	
One week post-delivery check	Check occlusion.	



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