

## First Appointment

### (Study Impressions & Final Impression)

- Take an impression of the opposing dentition and the provisional denture to be restored.
- Take photos (Full face, full smile, repose, and profile). Send to [Photos@petersonDentalLab.com](mailto:Photos@petersonDentalLab.com) or place in sealed plastic bag.
- Remove screw-retained provisional denture. If patient is in a full denture then remove protection caps from abutments.
- Check that all abutments are torque to manufacturers specifications.
- Seat impression copings onto abutments and tighten.
- Check that the impression tray fits over the impression copings passively . The impression copings should not contact the tray.
- Using medium body material, take a closed tray impression.
  1. Inject impression material around each impression coping
  2. Fill custom tray with impression material, not lifting the tip out of the material as you fill.
  3. Seat the filled tray watching carefully not to over impress tray into impression copings. Remain as still as possible while material sets.
- It is crucial to take an accurate final impression to receive a passive fitting restoration. You will receive an occlusal rim .

Note: Inspect impression carefully for required detail.

## Second Appointment

### (Jaw Relation Record, Implant Verification Jig and Shade)

- Remove screw-retained provisional denture. If patient is in a full denture then remove protection caps from abutments.
- Jaw Relation Record**
  1. Sit patient up and have him or her face you.
  2. Shape wax rim according to the patients lip contours.
  3. With the patient at rest, mark the wax-rim at the corner of the lip on both sides, midline, high lip line. Move centrals provided into proper position, evaluating incisal length, mid face support and inclination.
  4. Evaluate centric relation (CR) and vertical dimension of occlusion (VDO)

Note: The patients existing denture should be utilized when communicating with lab.

- a. Place a dot on the tip of the patients nose and chin.

- b. Have patient relax and take measurement 2 or 3 times or until a consistent vertical dimension at rest is archived (VDR).

Note: Ask patient to verbalize the letter "M" while taking the vertical measurement. This exercise will help the patient get to a resting position.

- c. Have patient bite together gently and measure dots. The measurement should be approximately 3-4mm less than the position at rest (VDR). Adjust rims to as needed to meet evenly.
- d. "S and F" sounds. There should be 2-4mm speaking space between rims when patients says S sounds. (sixty, sixty-six, Mississippi). During F sounds the central incisors should slightly touch the top of the lower lip.
- e. Inject bite registration once VDO and CR are verified. Patient should bite gently as not to distort occlusal rim.

#### Implant Verification Jig

1. Seat verification jig pieces individually onto appropriate implants. Each individual jig piece should not be in contact with each other. If so, trim with disk.
2. Lute jig together acrylic resin (e.g., Pi-hu-plast- XPdent, Pattern Resin- GC America, Duralay- Patterson Dental). Allow material to flow through joints completely. Allow full cure of material before removal.
  - a. *Important:* If any cylinder & implant interface is subgingival, take a periapical radiograph to ensure jig is fully seated on abutments.
3. Remove jig in one piece.
4. *Important:* Replace fully cured jig back onto implant abutments. Tighten one distal screw. No lifting of jig should occur. Visually inspect all cylinders for passivity. Repeat this process on all abutments.
  - a. If any section of the cylinder- abutment interface is subgingival, then a periapical radiograph is required to verify that the implant verification jig is seated. This is very important for the accurate milling of the bar.
5. Remove jig and place into secured box. *Important:* do not place back on model and tighten for shipping.

#### Shade

1. Take a shade and denture tooth mold.

Notes: We will match to VITA shade guide and select Ivoclar premium denture teeth unless otherwise specified on Rx.

## Third Appointment

### (Bar Set-Up Esthetic Try-In)

- Remove screw-retained provisional denture. If patient is in a full denture then remove protection caps from abutments.

- Insert bar with set-up. Evaluate fit of bar.
- Re-evaluate VDO and CR, occlusion, pathway function, esthetics/shade, midline and phonetics.
- Take photos (Full face, full smile, repose, and profile). Send to Photos@petersonDentalLab.com or place in sealed plastic bag.
- Remove bar with set-up and return to lab.

## Fourth Appointment

### (Delivery)

- Remove screw-retained provisional denture. If patient is in a full denture then remove protection caps from abutments.
- Hand tighten the finished hybrid, alternating from one side to the other.
- Follow manufacturer's guide for torque values of final prosthetic screws.
- Verify correct occlusion and adjust if necessary.
- Fill holes with your material of choice. Seal over holes with either acrylic or composite.

## Follow Up Appointment

- Check and equilibrate patient's bite.
- Review hygiene instructions
- Set a recall schedule.