

Fixed Beam (Highwater Dental Prosthesis) Condensed Clinical Appointment Sequence

Appointment 1: Primary Impression

Record primary impression with stock tray. A preliminary impression is recorded over the healing abutments or the temporary abutments, providing the laboratory with a preliminary working cast. This preliminary cast will provide the restorative dentist and the laboratory with the initial criteria for final prosthetic selection and allow for construction of a custom tray for the final impression.

Allow 5 working days in laboratory for fabrication of custom tray.

The existing temporary bridgework or denture will need to be relieved in the areas of the healing abutments and incision sites and soft lined with a conventional liner.

Appointment 2: Master Impression

Place final abutments or inserts and check for proper fit and tightness.

Place the impression components.

Make sure the base of the impression coping is flush with the surface of the implant. This relationship can be verified radiographically to ensure complete seating.

Record the final impression. A firm body impression material is recommended i.e. Polyether (Impregum, Polygel) or a firm body, Polyvinylsiloxane.

[Send the impression to Waters Edge Ceramics for fabrication of the master cast, soft tissue cast, verification index and occlusal record bases.](#)

Appointment 3: Centric Jaw Relationship/Verification Index

A Verification Index is fabricated to aid in the evaluation of the master cast, and to help ensure that each implant bar or bridge framework will be cast and delivered with a passive, accurate fit.

Waxing sleeves or gold cylinders are secured to the master cast and are luted together with a light cure resin. The index is then delivered for try-in.

Try-in verification index without fixation screws to verify a passive fit.

Visibly check to see if the index sits passively on the abutments; then use gentle finger pressure to determine if there is a discrepancy in fit (rocking, fulcrum or gap). If there is a discrepancy, simply cut the framework and reassemble to the corrected position.

Once the individual sections are firmly secured to the abutments with the fixation screws, lute the reassembled framework together with light cure resin, GC Pattern Resin or Duralay.

Remove the assembly from the mouth and secure it to the proper analogs, using the fixation screws. Place the assembly into a stone paddy and send to the laboratory. DAL will then retrofit the master cast to the position of the corrected verification index.

The framework can now be waxed and cast with the assurance of an accurate master cast.

Secure the occlusal record base with the fixation screws and record vertical and centric jaw relationship. Contour the rim and relate any conventional landmarks, then record mould and shade selection.

Send verification index and centric jaw relationship to Waters Edge Ceramics. Allow 5 working days in laboratory for wax setup for try-in.

Appointment 4: Wax Setup for Try-in

Evaluate wax setup for proper esthetic display, vertical and centric relationship.

Return to the laboratory for fabrication of the plaster matrix and the fixed detachable metal base. Allow 8-10 working days in laboratory.

Appointment 5 Fixed Detachable Metal Base Try-in

Try in metal base without fixation screws and evaluate passive fit to the prosthetic abutments. If there is any rocking or any gap exists between the bar and the abutment, section the base in the area where the discrepancy exists.

Secure the individual sections to the abutments with fixation screws and reassemble with GC pattern resin or Duralay.

Remove the assembly from the mouth and secure it to the proper analogs using the fixation screws.

Place the assembly into a stone paddy and send to the laboratory for soldering. DAL will assemble the base and process and finish the denture teeth onto the base.

Appointment 6 Delivery

Secure the metal base with teeth with fixation screws.

Evaluate esthetics, fit and occlusion.



First fill the screw access holes with cotton, then with composite or cold cure acrylic.

Instruct patient on proper home care and oral hygiene considerations.

