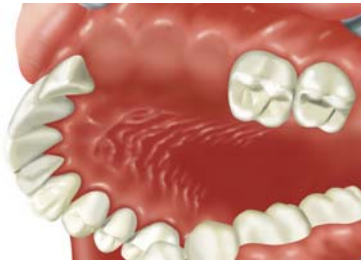


Restorative Guide



centerpulse

Implanting trust.

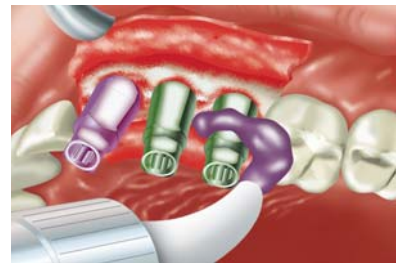


1 At a consultative visit, take a preoperative full-mouth impression and bite registration. Send materials to the laboratory for fabrication of stone models. Record shade and provide to the surgeon for provisional crown order.



2 Pour models in die stone. Complete a diagnostic wax-up for cases with three or more adjacent units.

Create a surgical guide using a duplicate model fabricated from an impression of the diagnostic wax-up.



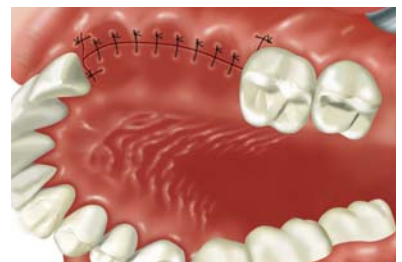
3 Immediately after implant placement, take a localized index using the Fixture Mount/Transfers or attach a transfer post with a 1.25mm hex tool. Apply heavy-bodied vinyl polysiloxane indexing material around the transfer post with enough coverage to ensure fixation. Material need not be applied all the way to the implant engaging end of the transfer. Leaving access to the screw holes, apply additional indexing material to the occlusal and incisal surfaces of two teeth on each side of the implants. Minimal material is needed on the facial and lingual surfaces as marginal detail was captured in the original full-mouth impression.



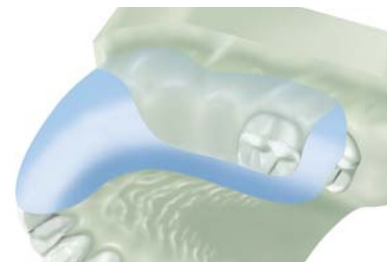
4 A reinforcing bar (modified plastic stock tray or curette tip) is recommended for indexes with three or more units. After indexing material has hardened, unscrew the transfers and remove the index with transfers attached. Forward the index, transfers and diagnostic models to the laboratory or Centerpulse Dental for retrofitting of the original model.



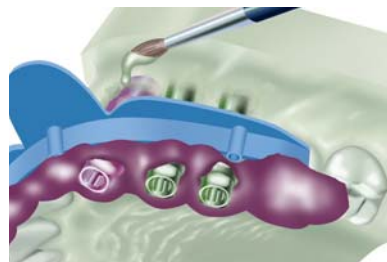
5 Optional indexing and transfer: Use long (open tray) impression screws to project through surgical guide. Lute the Fixture Mount/Transfers or transfer posts to the surgical guide with resin of choice. Unscrew the transfers and remove the guide with transfers attached. Forward guide and transfers to the laboratory or Centerpulse Dental for retrofitting of the original model.



6 Attach surgical cover screws and suture the soft tissue, or place healing collars for single stage protocol. Modify patient's prosthesis for use during the healing phase.



7 Prior to retrofitting of the partially edentulous study model, make a matrix of the edentulous area using silicone laboratory putty. Note: Steps 7 through 10 can also be performed at Centerpulse. Additional per unit laboratory charges will apply.



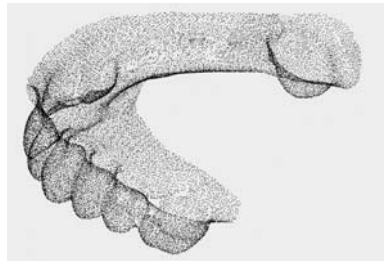
8 Connect the Fixture Mount/Transfers or transfer posts to corresponding implant replicas. Bore a hole in the original, preoperative model to accommodate the replicas. Fit the index with assembled transfers and replicas over the corresponding teeth on the original model, ensuring passive fit of index. Backfill the model with stone to secure the replicas in place. Once the stone material has set, remove transfers and index from the adjusted stone model.



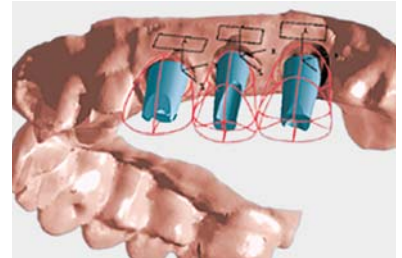
9 Trim the stone model to allow for the production of a soft tissue model. Allow for at least 1mm of implant analog to protrude above the stone surface. Occlude the top of the implant analog with soft wax. Use the matrix of the patient's edentulous soft tissue area made in step 7 to create the profile of the soft tissue material.



10 Send completed Rx form, optional Rx addendum, articulated model and other case materials to Centerpulse. Complete case requirements are indicated on the Rx form. Ordering instructions are found on the back of the Rx form. Optional Centerpulse services include model work and provisional restoration fabrication.



11 The retrofitted model is laser scanned to generate a 3D image.



12 Virtual teeth are designed to simulate the final restoration (outlined in red). Atlantis abutments are designed by clinically-based software. Custom parameters are applied as requested on the optional Rx addendum.



13 Atlantis Abutments and duplicate abutments are milled from titanium blanks manufactured by Centerpulse with the patented friction-fit internal hex and Spline® connections. Provisional crowns are fabricated by the laboratory or Centerpulse. Completed case materials are returned to the customer.



14 At implant uncovering, seat patient-specific Atlantis Abutments using a 1.25mm hex tool. Tighten the retaining screw to the recommended torque with a calibrated torque wrench. Take an x-ray to confirm that the abutments are fully seated. The abutments are marked with the corresponding tooth position.



15 Attach the provisional restorations with temporary cement. Remove excess cement. Suture soft tissue in place.



16 After the healing period, examine tissue. If no gingival recession has occurred, seat the duplicate abutment in the model and forward to the laboratory. The duplicate abutment will serve as a die for fabrication of the final restoration.



17 If gingival recession has occurred, use a periodontal probe to measure the recession distance from the gingiva to the margin of the temporary crown at three points: 0° (facial), 30° mesial and distal. Add a factor to ensure the required depth of the subgingival margin. Mark the measurements on the duplicate abutment. Modify the abutment chairside or forward to the laboratory for adjustment and fabrication of the final restoration.



18 At the final visit, remove provisional crown. If no modification was made to the duplicate abutment, cement the final crown. If the duplicate abutment was modified, remove the primary abutment using the appropriate removal tools. Seat the modified duplicate using a 1.25mm hex tool. Tighten the retaining screw to the recommended torque with a calibrated torque wrench. Take an x-ray to confirm that the abutment is fully seated. Occlude screw access holes prior to fixation of crown with cement of choice.