

IMPLANTS

Prosthetic Technique Series

Side 1. - Overdenture with Individual Attachments

Side 2. - Hybrid/Denture Bridges

2

Overdenture with Individual Attachments

Before Implants Placed

1. Create Surgical Guide

No matter what type of attachment is planned (e.g., even a locator), it is still critical to construct a surgical guide before implant placement. Surgical Guides fabricated by the Aurum Ceramic/Classic Implant Team™ ensure extremely precise placement, resulting in greater longevity and more esthetically pleasing implants. A surgical guide can be created before implant placement by either:

- Making a clear duplicate of patient's existing denture *or*,
- Starting a new denture and taking it to try-in stage, then duplicating the try-in in clear acrylic (NOTE: Save try-in for use after implants have integrated).



Upper and lower models and a bite are required along with an indication of the proposed implant sites. For simple surgical guides, the Implant Team will drill a hole, place a metal cylinder or cut away the lingual of the tooth in the best position for the implant placement. The clear duplicate can be modified to meet clinician's preferences.



This can also be used as a radiographic guide (depending on clinician's preference, ball bearings, short lengths of wire, barium mixed with acrylic or radio opaque teeth can

be placed at the proposed implant sites) for CT scans or x-rays in preparation for implant surgery.



After Implants Integrated

2. Take Fixture Level Impression

Place overdenture abutments and place impression copings on the attachment for a pickup impression. If existing denture used, relieve denture over attachments and take reline impression with high quality polyvinyl siloxane material. Send denture to Aurum Ceramic/Classic. A reline will be done to pick up final attachment in denture (NOTE: It is not possible to take a separate impression and transfer the denture to this new model to pick up the attachments). If a new denture is to be made, take the final polyvinyl siloxane impression in a custom tray, picking up the impression copings.



3. Establish the Bite

If a denture set up was done previously, this can be used to mount the master model. Otherwise, a bite-rim will be made with a processed base, picking up the attachments for a stable bite.



4. Verify Denture Set Up

After the bite is established, Aurum Ceramic/Classic will transfer the set up to a processed base. Verify denture set-up via a try-in with the patient for esthetic and bite/occlusal acceptability. The Implant Team will make any requested changes to tooth set up.

5. Final Prosthesis Processed

Once final try-in approved by doctor and patient, final definitive denture will be processed. The prior careful verifications of fit and esthetics will result in a very straightforward insertion appointment.



Hybrid/Denture Bridges

Before Implants Placed

1. Create Surgical Guide

Surgical Guides fabricated by the Aurum Ceramic/Classic Implant Team™ ensure extremely precise placement, resulting in greater longevity and more esthetically pleasing implants. A surgical guide can be created before implant placement by either:

- Making a clear duplicate of patient's existing denture *or*;
- Starting a new denture and taking it to try-in stage, then duplicating the try-in in clear acrylic (NOTE: Save try-in for use after implants have integrated).



Upper and lower models and a bite are required along with an indication of the proposed implant sites. For simple surgical guides, the Implant Team will drill a hole, place a metal cylinder or cut away the lingual of the tooth in the best position for the implant placement. The clear duplicate can be modified to meet clinician's preferences.



This can also be used as a radiographic guide (depending on clinician's preference, ball bearings, short lengths of wire, barium mixed with acrylic or radio opaque teeth can be placed at the proposed implant sites) for CT scans or x-rays in preparation for implant surgery.

After Implants Integrated

2. Take Fixture Level Impression

Take preliminary fixture level polyvinyl siloxane impression (NOTE: Open Tray Impression preferred), impression of opposing dentition and bite if possible. Send



to Aurum Ceramic/Classic accompanied by an x-ray showing the impression copings seated on the implants.

3. Verification Matrix fabricated based on impression and x-ray

The Aurum Ceramic/Classic Implant Team will fabricate a verification matrix consisting of the impression copings luted together with acrylic and then separated with a very thin disc.



4. Place Verification Matrix and Take Final Impression

The verification matrix insures exceptional accuracy particularly when working with multiple implants. The matrix is returned in position on the model. Upon receipt, remove from the model and place the separated copings intraorally in the same position, lute the pieces together with Fuji acrylic (less warpage than other acrylics) and take a final Open Tray polyvinyl siloxane (for best accuracy) impression making sure the coping screws are accessible. After the impression has set loosen the screws and remove the impression and return to the lab.

This invaluable step helps ensure the accuracy of the final impression and helps to eliminate the possibility the framework might have to be cut and luted back together at bar try-in stage.

5. Establish the Bite

If wax-up or try-in was done previously, this can be used to mount the master model and begin fabrication of the framework.



Otherwise, a bite-rim that can be screwed onto the implants will be made and a new bite relation taken before the framework is fabricated.

6. Verify Denture Set Up

After the bite is established, Aurum Ceramic/Classic will transfer the set up to a processed base. Verify denture set-up via a try-in with the patient for esthetic and bite/occlusal acceptability. The Implant Team will make any requested changes to tooth set up.



7. Framework Fabricated

Framework will be fabricated based on verified try-in. Set up will be transferred onto the framework and sent to the dental office for a final try-in of passive fit, esthetics and bite/occlusal acceptability. The substructure can also be fabricated to bisque bake or even finalized. NOTE: If the access hole angulation is too great, a special flat head screw and precise driver head must be utilized to allow for adequate torquing.



8. Final Prosthesis Processed

Once final try-in is approved by doctor and patient, final Hybrid/Denture Bridge will be processed. The prior careful verifications of fit and esthetics will result in a very straightforward insertion appointment.



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