**AvaDent® Immediate Dentures**

Only AvaDent offers the dental professional a simplified process for delivering an immediate denture as well as a comprehensive immediate system that allows the them to treatment plan a final definitive AvaDent all within a 100% digital environment.

As with all immediates the process starts by taking impressions and gathering inter-occlusal records. With AvaDent, this is all done at the first appointment. (See impression taking and creating an inter-occlusal record options on pages 2-3)

The impressions and the records are then sent to the laboratory where they are scanned, a virtual model is created and the remaining teeth are digitally removed from the virtual model. An AvaDent Immediate Denture is then designed and the digital record is stored for future use. The AvaDent Immediate Denture is unique in that it is precision-milled with a larger, deeper intaglio surface, removing the base of the teeth and excess acrylic material from inside the ridge so as to maintain optimal occlusion. This creates a thinner, lightweight denture designed to accommodate the higher and/or uneven ridges generally found with immediate cases.

If bone reduction is required, the doctor now has the option to order an AvaDent Bone Reduction Guide (ABRG). The ABRG is a clear, milled, AvaDent baseplate used to assist in alveoloplasty and tissue contouring to help ensure proper seating of the AvaDent Immediate Denture. The ABRG is digitally reduced and precision-milled to exactly match the design of the AvaDent Immediate Denture. An e-mail showing a digital arch with the proposed reduction is sent to the doctor for approval or modification prior to milling.

The AvaDent Digital Denture is then sent to the doctor, the remaining teeth are extracted from the patient, the ABRG is utilized to remove and contour excess tissue and the denture is seated. As the tissue heals over the next several months, the denture is lined and adjusted.

In some cases this becomes the final denture. However, for the dental professional and patient who want the function and aesthetics of a definitive AvaDent after the healing process is complete, the AvaDent Immediate Denture System offers an extraordinary solution.

Using the AvaDent digital record, an AvaDent Provisional Denture is created and sent to the dental professional. The AvaDent Provisional Denture is created with the exact same precision parameters as an AvaDent Digital Denture with one significant difference. Instead of using manufacturers' denture teeth, the APD teeth are 100% milled from an added layer of tooth colored acrylic.

Once the extraction sites have healed, the AvaDent Provisional Denture can be lined, equilibrated and worn by the patient as a temporary prosthesis until the definitive AvaDent is completed.

The adjusted AvaDent Immediate Denture along with an occlusal bite record are then sent to the lab. They are scanned, merged with the existing file and the Definitive AvaDent Digital Denture is fabricated.

The final step is the delivery of the definitive AvaDent Digital Denture to the patient. As with all AvaDents, the permanent digital record is retained.
Impression Technique for AvaDent Immediate Denture

1. Choose or create an impression tray that allows you to capture the remaining dentition, the edentulous ridge (if any) and the appropriate border depth to stabilize the AvaDent Immediate Denture.

2. Properly prepare tray to allow for space of existing dentition by placing 1.0 - 3.0 mm of relief wax over existing dentition and try in the tray. The will be removed prior to impression.

   Tip: Place utility wax around the cervical of a recessed tooth and any undercuts to allow for easy removal of tray. Alternatively, use light cured block-out resin.

3. Express AvaDent Border Molding Material onto the borders of the tray. Express one rope of material just below the apex of the tray border all the way around the tray. Express a second rope on top of the apex of the border all the way around the tray. Fill the remainder of the tray with adequate amount of border molding material.

4. Express AvaDent Border Molding Material around the existing dentition.

5. Insert the filled tray into the mouth and perform the necessary border molding movements to capture the anatomy of the remaining dentition, the edentulous ridge (if any) and the border.

6. Make a wash impression using AvaDent Impression Material to capture additional anatomy of the edentulous ridge, border or dentition if necessary.

Option for Impression of Class III Mobile Teeth

In cases where the teeth are extremely mobile, choose or create an impression tray that allows you to capture the remaining dentition, the edentulous ridge (if any) and the appropriate border depth to stabilize the AvaDent Immediate Denture. Place utility wax around the cervical portion of existing dentition to allow for easy removal of tray. Make an alginate impression and pour a stone cast. Depending on the remaining dentition scenario, the inter-occlusal record will be created as described below and returned with the stone casts.

   Please DO NOT remove teeth from casts!

Creating an Inter-Occlusal Record

There are many possible scenarios which may present in an immediate denture case. Careful assessment needs to be made concerning the remaining dentition as well as the OVD, centric relation and aesthetic records. There are four principle categories from which a record is created. (See list below) An accurate inter-occlusal record is required for the successful design and completion of the AvaDent Immediate Denture. This record can be created with the AMD or a modified version of it. The following examples show a variety of resourceful solutions.

   Type 1. Has OVD, sufficient intercuspatation and aesthetic reference available.
   Type 2. Has OVD, posterior teeth present and no aesthetic reference available.
   Type 3. No OVD, available anterior teeth and has aesthetic reference available.
   Type 4. No OVD and no aesthetic reference available.
Type 1. OVD and Aesthetic Reference Available
When a patient has sufficient remaining opposing teeth that interdigitate and an OVD position and CR can be confirmed or established, make an inter-occlusal record with AvaDent Bite Registration Material to record the position making sure to capture the anatomy of the remaining dentition and the edentulous ridge *(if any)*. Case will be designed using existing aesthetic references unless otherwise indicated.

Type 2. OVD and No Aesthetic Reference Available
When a patient has sufficient remaining opposing teeth that interdigitate and an OVD position and CR can be confirmed or established, make an inter-occlusal record with AvaDent Bite Registration Material. Prior to placing the bite registration material, hold in place the Compact AMD in the appropriate anterior position and incorporate it into the bite registration material. Establish aesthetic records including lip support midline, horizontal plane incisal edge, mold size and cervical line on the Compact AMD. If the Compact AMD cannot be accommodated, attach the lip support alone. The mandibular AMD tray is also adapted according to the remaining dentition and appropriate AMD procedure is followed for AvaDent complete over complete or single arch denture.

Type 3. No OVD, Available Anterior Teeth
When a patient has remaining anterior dentition and the aesthetic record is present including midline, incisal edge, horizontal plane, make an inter-occlusal record with AvaDent Bite Registration Material to record the correct OVD and centric relation making sure to capture the anatomy of the remaining dentition and the edentulous ridge *(if any)*. Modified AMD trays may be used to establish correct OVD and centric relation if applicable and AvaDent complete over complete or single arch protocol is followed.

Type 4. No OVD, No Aesthetic Reference
When a patient has no aesthetic reference with the remaining dentition and the teeth do not interdigitate confirming OVD or centric relation, use an appropriately modified AMD to establish the correct inter-occlusal record. Follow existing AvaDent protocol for AvaDent complete over complete or single arch for creating the appropriate AMD. Establish aesthetic records including OVD, centric relation, lip support, midline, horizontal plane incisal edge, mold size and cervical line.
Extraction Alveoloplasty, Tissue Contouring and AvaDent Immediate Denture Insertion

AvaDent Bone Reduction Guide (ABRG) Option
If bone reduction is required, the doctor now has the option to order an AvaDent Bone Reduction Guide (ABRG). The ABRG is a clear AvaDent base-plate, surgical guide used to perform an alveoloplasty and tissue contouring during immediate and implant cases.

An e-mail showing a digital arch with the proposed reduction is sent to the doctor for approval or modification prior to milling. The AvaDent Immediate can now be designed for optimal aesthetics. The ABRG features easy cut away surgical guide cutouts.

AvaDent Immediate Denture (AID)
The AvaDent Immediate Denture is a unique milled prosthesis specifically designed to accommodate a higher ridge and a soft reline. As the healing process continues over time, relines and adjustments can be made to this healing denture as is customary.

AvaDent Provisional Denture (APD) Option
The AvaDent Provisional Denture is a milled duplicate of the original AvaDent Immediate Denture which will be worn as an interim denture until the definitive AvaDent is completed. Once healing has taken place, it will be re-lined chair side, adjusted occlusally and worn until the definitive AvaDent Denture arrives.

Optionally, the adjusted AvaDent Provisional Denture can be relined, adjusted and sent to the lab as the design for the creation of the definitive AvaDent Digital Denture. The AvaDent Provisional Denture can remain with the patient.

IMPORTANT: A complete bite registration is to be included with the returned AvaDent Provisional Denture or AvaDent Immediate Denture.

Note: Additional adjustments may be included upon request. Instructions are indicated on the prescription and sent with the AvaDent Provisional Denture or AvaDent Immediate Denture to be finalized.

Delivery of the Definitive AvaDent
The AvaDent Immediate Denture (or AvaDent Provisional Denture) is scanned and merged with the original record and a definitive AvaDent denture is created that incorporates any changes that were required. Any additional changes that were requested in the prescription are also entered by the designing technician.

The final AvaDent is then milled, new teeth bonded in, finished and polished and returned for delivery. The definitive AvaDent is inserted, final adjustments are made and the process is complete.