

Bite records for large restorative cases and full mouth rehabilitations

Steps

- 1) Take very accurate polyvinyl full arch maxillary and mandibular impressions and a facebow transfer jig.
- 2) Send to laboratory to have them pour up and mount the models to articulator and fabricate a UVDL Freedom Appliance (This is what UVDL calls their Deprogrammer).
- 3) Deliver the Freedom Appliance to patient and have them wear it as much as possible for 3 weeks, especially at night. Goal with the appliance is that it is comfortable, does not impinge on gingival tissue, and that the anterior midpoint stop eliminates posterior tooth contact in closure but does not over-open the patient. Inter-arch distance between occlusal surfaces of second molars should be approximately 1.5 -2 mm. If posterior teeth contact each other, composite resin will be needed to add to the midpoint stop on the deprogrammer.
- 4) Take the Tripod Deprogrammed Bite registration. Gently have the patient close up and down against the anterior midpoint stop verifying reproducibility. After this is verified, have patient open slightly and inject the bite registration over mandibular posterior teeth and have them close into the deprogrammer. Once the bite registration material has fully set, remove the deprogrammer and place the bites back into the patient's mouth and have the patient close into these bites. Inject bite registration into the anterior region where the deprogrammer had previously been and allow this to set. This is your Tripod Deprogrammed Bite registration.
- 5) If there is going to be a change in vertical dimension of occlusion (VDO) with the definitive restorations, determine new VDO using phonetics, freeway space, and inter-arch distance. When taking a measurement from the CEJ to CEJ of tooth # 8 to tooth #25, the average is typically 16-18.0 mm for a Class I, 15-17.0 for a Class II.
- 6) Send models, tripod bite registration, and VDO measurement to lab and have the lab wax the case to correspond to this new VDO and deprogrammed bite. If a full mouth is to be treatment planned, have the lab wax second premolar to second premolar, and do not wax over the molars. Be sure to include the following when ordering the wax-up. (Think dentures and what is required of the wax rim for the technician to set teeth).
 - a. VDO measurement from CEJ to CEJ # 8 -25
 - b. Desired Incisal edge position of central incisors both in length and in profile.
 - c. Profile of central incisors
 - d. Midline
 - e. Stick bite (Incisal edge inclination), and a photo of patient with stick-bite
 - f. Buccal corridor changes

- 7) Order the Hornbrook/UVDL Preparation and Provisional kit. This will include:
 - a. The completed wax-up based on your smile design and any vertical changes at the correct deprogrammed bite
 - b. A putty matrix of the wax-up
 - c. A buccal and lingual preparation clearance matrix
 - d. A clear suck down stint
- 8) After preparations are complete, take full arch master impression
- 9) Put original deprogrammed bite registrations that you sent to the lab to mount the case after being deprogrammed back onto the molars and have the patient close into these bites.
- 10) Inject bite registration between the anterior preps (This would apply if both maxillary and mandibular teeth are prepped or only one arch was prepped). You will now have a Tripod correct deprogrammed bite on the preparations to be used to mount the case to have restorations fabricated.
- 11) After preparations are complete, and bite records are taken, fabricate provisionals using the Putty Matrix included in the Provisional Kit.
- 12) Send all records to the lab for fabrication of the definitive restorations. This will include
 - a. Pre-operative mounted models
 - b. Wax up mounted models
 - c. Master impressions
 - d. Tripod bite registration
 - e. Detailed lab prescription that includes
 - i. Shade
 - ii. Vertical dimension measurement
 - iii. Material to be used to fabricate the restorations
 - iv. Impression of provisionals
 - v. Photos of provisionals
 1. full smile
 2. chin-to-eyebrow full face
 3. Profile
- 13) When restorations are returned from the lab, remove provisionals and verify fit, contours, and aesthetics of the restorations and then bond into place using the appropriate adhesive systems. For details on step-by-step cementation, visit <http://www.uvdl/hornbrookforms>
- 14) If full mouth rehabilitation is to be completed, take full arch impressions of both arches, a new facebow record, and send to lab for wax-up of molars and putty matrix of wax-up
- 15) Prepare molars and provisionalize using putty matrix
- 16) Seat molars