Department of General Dentistry

Division of

Removable Prosthodontics

Complete Denture Procedures for a Team Approach

For Competency #9

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Two students will be assigned to one complete denture patient for the initial assignment. This arrangement will hopefully offer each student an opportunity to work closely with his/her partner and to be of assistance to one another during the numerous procedures necessary to construct dentures.

The faculty is insistent that this situation be handled in a very professional manner. The student should not make the patient feel that all procedures will necessarily have to be duplicated because of the dual assignment. All discussions should be held away from the chair. BOTH students are to be present at all appointments during the treatment phase. The procedures outlined have been organized so that each student will derive equal benefit and experience from this exercise and therefore, will earn full credit.

Although denture A is the only appliance to actually be placed into the mouth during this exercise, it is extremely important that BOTH students A and B take full responsibility for every clinical step along the way. Share the chairside workload. Every effort should also be made to do the laboratory work together. BOTH students should sign the treatment record for each step.

Student B will return the B denture teeth to Leila or Fran, along with BOTH removable flow sheets for grading and documentation. Your flow sheets will be returned.

If student B wishes to do their summatives on this patient, they may do so, however when reaching the inter-maxillary records visit, they must be working on their own set of record bases and occlusion rims. They should be stable enough even if they were made on the duplicate model.

PLEASE USE THE GREEN FLOW SHEETS ONLY FOR A TEAM DENTURE!

The following pages include a detailed list of procedures that the students are expected to follow:

ALL CLINIC APPOINTMENTS AS WELL AS LABORATORY STEPS MUST BE ACCOMPLISHED SIMULTANEOUSLY.
**Appointment #1 - Clinic – Consultation and Preliminary Impressions**

1. Student A & B - Examination, diagnosis and treatment planning. Complete record.
2. Student A - Preliminary *maxillary* compound impression.
3. Student B – Preliminary *mandibular* compound impression.

**Lab – Student A & B**

1. Bead, box and pour (in plaster) their own compound impression.
2. Construct custom final impression tray (with handle).

**Appointment # 2 - Clinic – Final Impressions**

1. Student A – Try in and adjust *mandibular* custom tray.
   - Border mold, final impress with light bodied rubber base.
2. Student B - Try in and adjust *maxillary* custom tray.
   - Border mold, final impress with light bodied rubber base.

**Lab – Student A & B**

1. Bead, box (CHECK WITH TECHNICIAN) and pour (in stone) their own final impression.
2. Soak final casts in water for 10 minutes in order to duplicate final casts with Alginate. Pour in stone. Separate Within ½-1 hour.

**NOTE:** Duplication of casts must occur before baseplate fabrication is done in order not to capture any blockout placed in preparation of baseplates. Student A will have original master casts (A), which will be used for the final dentures. Student B will keep the duplicate casts (B), which will also be used for all subsequent complete denture procedures including final processing of the completed dentures, but will NOT be inserted into the patient’s mouth. Clearly mark each model with the proper designation (A or B).
Appointment #3 - Clinic – Inter-maxillary Records Visit

**Student A & B**

1. Post Dam- Locate Anterior Vibrating Line (AVL) and compressible tissue depths, transfer to original maxillary cast A. Cut back maxillary record base to AVL line and score post dam. Transfer this information onto the maxillary cast and record base B.
2. Establish Vertical Dimension of Occlusion (VDO).
3. Do facebow registration and mount on articulator A. Pin =0 on movable table.
4. Carefully remove facebow with occlusion rim A and attach to articulator B.
5. Insert duplicate maxillary cast B into record base A and complete facebow mounting on articulator B. These must be stable; see a Remo tech if not.
6. Do Centric Relation registration.

**Lab – Student A & B**

1. Tooth RX and order. Set A will have the actual teeth selected, set B will use a similar (technique) tooth.

   *NOTE: Rx must include denture base shade. In addition, ALL information must be recorded in patient’s chart and signed/authorized.*

2. Mount lower cast A on articulator A.
3. Carefully remove attached occlusion rims from mounted casts on articulator A, transfer to duplicate casts B on articulator B and mount lower cast B.

   *NOTE: Both sets of casts are now mounted from one facebow registration and centric relation. If the transfers are done carefully, the end result will be adequate for proceeding with the subsequent steps.*

4. Record pin setting for each articulator on their respective casts (to maintain VDO).
5. Place mandibular occlusion rim A on articulator B and flush maxillary occlusion rim B until pin touches incisal table.
6. Place mandibular occlusion rim B on cast B and flush with maxillary occlusion rim- B.

   *NOTE: Occlusion rims on articulator B are now at the same level and position as the occlusion rims on articulator A. This will allow for similar tooth set-ups.*

7. Set up teeth on articulators A & B respectively using appropriate guidelines.

*NOTE: A & B SET UPS MUST BE ACCOMPLISHED SIMULTANEOUSLY.*
**Appointment # 4 - Clinic – Trial Denture (Tooth try-in)**

1. Try in trial denture (tooth set-up).
2. Verify esthetics, phonetics, VDO and CR.
3. Modify both sets as necessary.
4. Patient acceptance of set up (written in record and *signed* by patient).

**Lab – Student A & B**

1. Obtain final occlusion check on BOTH set ups, complete wax-up then check occlusion once again.
   - Student B will remove and recard technique teeth and return to Leila or Fran and continue to work with student A on denture A.
2. Create plaster facebow preservation (NO Vaseline on teeth)
3. Write up laboratory Rx for processing; either in house or at an outside lab.
4. Denture A will be flasked, packed, processed, de-flasked, lab remounted, de-cast and returned to you for finishing and polishing.
5. Finish and polish denture A.
6. Block out undercuts in dentures and pour new full (– not horseshoe shaped) plaster casts in both sets of dentures (patient remount casts).
7. Remount maxillary denture using facebow preservation.

**Appointment # 5 – Clinic – Insertion / Patient Remount**

1. Insert maxillary and mandibular dentures (each student 1 arch). Utilizing Sorenson's and PIP pastes, correct borders, frenal clearance, check for heel interference.
2. Make new Centric Registration. Mount mandibular denture on its remount cast. Verify CR.
3. Equilibrate dentures as needed. Save casts for possible follow up adjustments.
4. Final polish dentures as needed.
5. Deliver denture set A. Review home care instructions. Re-appoint patient within 48 hours for follow-up and adjustment if needed.

**NOTE:** All steps should be done concurrently and documented on BOTH flow sheets. Credit will not be given for a step or visit not attended.
Appointment # 6 – Clinic – Adjustment(s) / Patient Remount

1. Determine patient's chief complaint.
2. Utilizing indelible pencil (Dr. Thompson’s Color Transfer Applicator), Sorenson’s and PIP pastes, adjust dentures to relieve trauma or irritation.
3. Check occlusion. Take a new centric and remount for equilibration if necessary.

   NOTE: The number of follow-up visits may vary for each patient. You must continue to reappoint for follow-up until such time that the patients have no visible signs of trauma and the occlusion is stable.

*4. Complete patient record and flow sheet. Be sure to have the business office note the record of payment on BOTH flow sheets regardless of method of payment (i.e., self-pay, Mass Health or n/c ).
5. Determine status of patient. Place patient on annual recall.
*6. Obtain a Case Complete signature on flow sheet

*NOTE:
YOU MAY NOT SIGN-OUT WITH STEPS #4 AND # 6 (above) INCOMPLETE.
NO EXCEPTIONS!
**Summative Exams on Team Patients**

The Summative Exam may be taken on a team denture patient as long as the following criteria are met:

1. **Preliminary and Final Impressions**- Each impression must be made on one complete arch per team member. Each team member must work independently of the other and in consecutive not simultaneous fashion.

2. **Inter maxillary records**- In order for both team members to receive credit for this step, each student will fabricate their OWN complete set of record bases and occlusion rims on the original final casts or their duplicates. Each student will adjust their OWN C/U C/L wax rims chairside as specified in the *Practical Exam Guidelines* handout. The B set does not take the records from the A set as with a conventional team denture visit, but rather obtain their own chairside records. Permission from the patient MUST be secured, as each student must complete this visit SEPARATE from the other. Only one student may treat the patient and be in the operatory at a time.

3. **Tooth try in**- Once again, a practical may be done by each team member as long as each student sets their OWN complete set of teeth. The B set will be utilizing the substitute technique teeth as usual. Each set will be tried in separately and independently of one another. If the B set is to be tried in, the record bases and occlusion rims must be fabricated on the “A” final casts. Each set will be evaluated as set forth by the *Guidelines* handout, with the exception of the ‘esthetics’ of the B set- due to the use of the technique teeth.

4. Summative credit for the **Insertion** visit cannot be awarded to both students as it is not possible to duplicate this visit on the patient.

5. Since steps 1-3 must be repeated for each summative (or a formative and a summative), you must request and receive express permission from your patient for the additional procedure and time involved. Under NO circumstances may a summative be performed at the expense of a formative for the team partner.