Complete Denture Delivery, and Denture Cleansers

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Before placing dentures in the patients mouth, the dentures should be inspected to be sure that there are no imperfections.

Tissue surface

Polished surface

Flanges

Freni

Ideally the patient should be instructed to keep any previous dentures out of the mouth for 12 to 24 hours immediately before the insertion appointment.

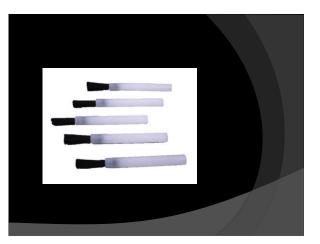
This is essential if the new dentures are to be seated on the healthy and undistorted tissues.

If the tissues are being distorted by old dentures, the new dentures will not seat perfectly, even if they fit perfectly.

Improper seating of the dentures at this time can cause the appearance of errors in occlusion or fit that would not exist if the tissues were undistorted.

Pressure indicator paste should be used for every new denture, and any necessary adjustments should be made before proceeding with the occlusal adjustment.

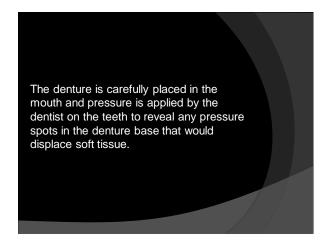




It is especially helpful when bilateral undercuts on the residual ridge interfere with the initial placement of dentures or when pressure spots were present on the final impression.

The paste is brushed on the tissue surface of the denture base in a thin layer so the brush marks are visible and run in the same direction.

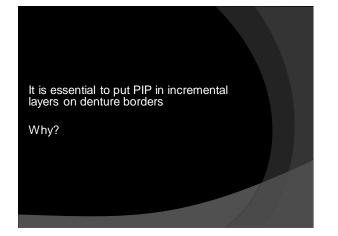












 Support.
 Denture bearing tissues should resist movement of denture tissue-words upon application of finger pressure on the occlusal surface at the premolar-molar region.

 Stability.
 Denture should be relatively immobile upon application of alternate finger pressure on the premolar-molar region.
 Stability will be adversely affected if level of lower occ. Plane is higher than the dorsum of the tongue. Stability.

Lower denture should not extend to the ascending ramus otherwise occlusal pressure will dislodge it forwards.

Retention.

Denture should resist movement away from the tissues when a force is applied in that direction.

Retruded tongue position affects retention of the lower denture. Exercises are prescribed to train the tongue to a more anterior position.

Retention.

Application of an anterior pressure onto incisal edges of anterior teeth will test posterior seal (post dam in the upper jaw and at retromolar pads in the lower). While application of a posterior force on the same regions will test peripheral seal labially and lingually.

Retention.

Post dam should be examined in cases of reduced retention of upper denture

Post dam absence, under extension or overextension (in the tissues) would compromise retention.

Retention.

If retention was not good enough the fitting surface should be wet with water and left in the patient's mouth for some time for the denture bearing areas to adapt more to the denture.

Aesthetics

Midline (upper, lower dentures and the face)

Orientation of occlusal plane and parallelism with interpupillary line.

Relations of occlusal plane might change if parts of the flask did not meet properly after packing of acrylic resin during processing.

Phonetics

Encroachments and violation of free way space might affect pronunciation of s sound.

Occlusal relation

Occlusal relations might change from the time of try in due to polymerization contraction and shrinkage of the acrylic resin.

Laboratory remount often eliminates the problem.

Occlusal errors might still be present if mistakes in bite registration went undiscovered during the try in stage. To observe an error, the dentist should guide the mandible into centric relation (CR), while supporting the lower denture intra-orally. The patient is instructed to close until the first "feather touch" is felt on the posterior teeth. At the first contact, the patient is instructed to open and repeat this closure, stopping the instant tooth contact is felt; then the patient is instructed to "close tight". This procedure will reveal errors in CR by the touch and the slide of teeth on each other.

Occlusal errors during the delivery stage of CD's

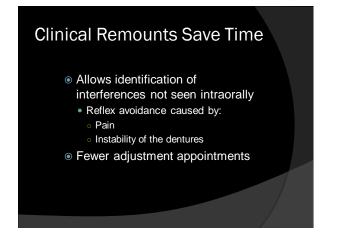
Occlusal error might be:

- Small: This can be adjusted with chair side occlusal adjustment.
- Intermediate: This can be adjusted with a clinical remount technique.
- Gross error: this can be dealt with by the removal of acrylic teeth off the lower denture, the build up of an occlusal wax rim and the registration of the CJR again.

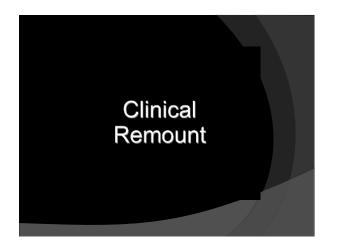
First: Correcting a small error by chair side adjustment.

 Second: If we have a moderate occlusal error that became evident at the time of insertion....

Clinical Remount of Processed Dentures Remount on an articulator Allows extraoral occlusal adjustment Eliminates continual removal & replacement of dentures



Not all dentures require an occlusal remount. We will routinely remount dentures in clinics, so that you have a chance to become competent.









Occlusal adjustment: (Selective grinding)

The sequence of steps should be as follows:

1. Refine centric occlusion.
2. Perfect working and balancing occlusion.
3. Correct protrusive occlusion.

Adjust the occlusion on the articulator, using articulating film of separate colour for centric and excursive contacts



*Selective grinding is carried out using articulating paper to mark the area of premature contacts.

Procedure:

- Adjust the articulator to the proper setting.
 Use red articulating paper for marking centric occlusion and blue articulating paper for the eccentric movements.
- 2. Grind the teeth with small green or diamond stones.

4. Obtain even contact in centric occlusion:

- a. Lock the upper arm of the articulator in centric relation. Check the occlusion by opening and closing the articulator, and lightly tapping the teeth together on red articulating paper.
- b. Loosen the locks on the condylar elements and move the denture in eccentric movements.
 Using blue articulating paper between the teeth.
- Osing blue articulating paper between the teeth.
- If the cusp is high in centric occlusion only—→deepen the fossa.
- If the cusp is high in both centric and eccentric position——reduce the cusp.





5. Adjust the working relation:

Loosen the centric locks and use blue articulating paper.

As a rule in selective grinding the centric holding cusps are not ground. These are: the maxillary lingual cusps and the mandibular buccal cusps.

These cusps are essential to maintain the recorded vertical dimension.

If interferences exists in the **working side** reduce either the **upper buccal** cusps or the **lower lingual** cusps.

This is called B.U.L. Rule

In the bull rule reduce the lingual <u>inclines</u> of the upper buccal cusp and the buccal inclines of the lower lingual cusps.

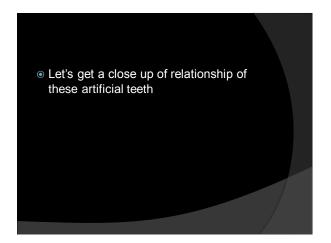
6. Adjust the balancing relation:

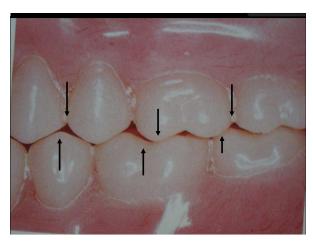
<u>Rule:</u> If interference exists on the balancing side reduce the lingual slope of the lower buccal cusp. The lower buccal cusp is a centric holding cusp so grind carefully and do not reduce the cusp tip.

7. Adjust protrusive relation:





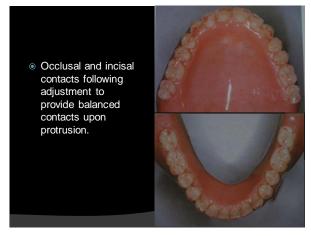


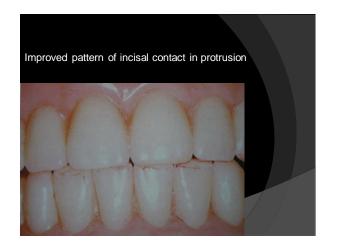




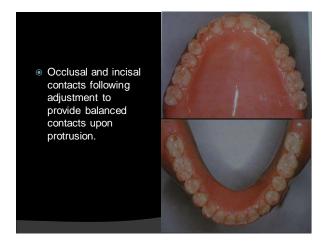


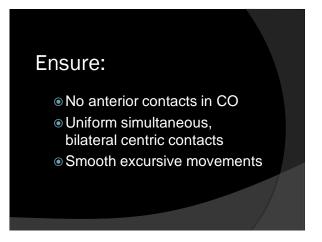












Balanced Occlusion *Ensure*:

- Balancing contacts are present
- Balancing contacts not heavier than working contacts
- Light grazing contacts of the anterior teeth in excursions

Intraorally verify that contacts are similar and the occlusion feels comfortable to the patient

Occlusal Analysis Place patient in centric relation Visually check the occlusion Stabilize mandibular denture Check with articulating paper

The ground surfaces of the teeth must be polished when grinding has been completed.

Polish Adjusted Areas

- Pumice on a wet ragwheel
- Tin oxide on a dry ragwheel
- Use sterile ragwheels
- New pumice for each patient
- Wet the pumice with disinfectant such as chlorhexidine.

Patient instructions

When all adjustments have been completed the patient should be advised on:

- the proper care and use of new dentures
- Individuality of the patient
- Appearance of new dentures
- Mastication with new dentures
- Speaking with new dentures
- Oral hygiene and denture cleansers

How long to wear dentures

- Dentures should not be worn continuously
 - Severe inflammation & hyperplasia 10 times greater in those who sleep wearing dentures
 - % of patients wearing dentures at night were found to have denture stomatitis
 - Continual wear associated with increased bone resorption

Tautin, F.S. "Should dentures be worn continuously?

Hygiene

- Plaque can form on dentures
- Not cleaning dentures may result in staining, denture odor
- Brush gums, palate, and tongue with a soft toothbrush or with a damp washcloth
 - To clean and stimulate the tissues
- Eating a healthy diet can help keep tissues healthy

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