



Occlusion

Nanitopa Following completion of this session participants will be able to:

- Identify and define the following terms: Occlusion, Centric Occlusion, Intercuspation, Functional Cusps, Non-Functional Cusps, Sanine Guidance, Group Function, Malocclusion, Lateral Interference
- Describe and demonstrate the proper two step technique for assessing and adjusting occlusion following restoration placement



Occlusion – Terminology Reviewoo

- - The relationship of the mandibular and maxillary teeth when the teeth are closed together or during excursive movements when the teeth are ouching.
- Centric Occlusion
 - The habitual way that the teeth come together. It is the jaw position that affords the greatest interdigitation of the teeth. It is related to tooth occlusion and not determined by muscle or bone.
 - also referred to as acquired centric occlusion, habitual occlusion, convenience occlusion, or intercuspal position (ICP)

Brand of Orofacial Structures: A Comprehensive Approach (7th ed). Elsevier Mosby. St. Louis, MO.



Occlusion – Terminology Reviewood • Intercuspation

- - The mesial-distal and buccal-lingual relationships that determine how the upper teeth will touch, hit, and interlock with the lower teeth

(2014). Anatomy of Orofacial Structures: A Comprehensive Approach (7th ed). Elsevier Mosby. St. Louis, MO.

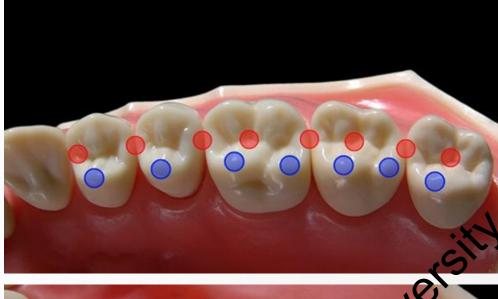


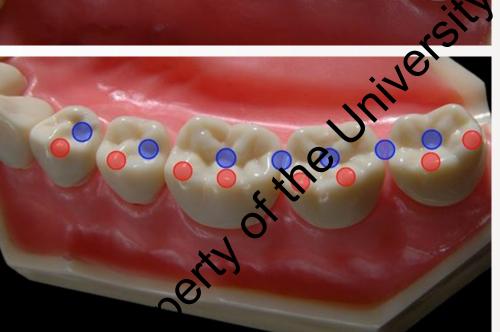
Occlusion – Terminology Review

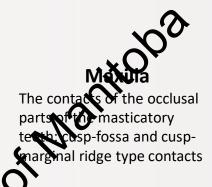
- Functional Cusps (working cusps, Centric cusps)
 - the buccal cusps of mandibular posterior teeth and the lingual cusps of the maxillar posterior teeth
 - these cusps occlude in the entral fossa and maintain the occlusal vertical height
- Non-Functional Cusps (balancing cusps)
 - the lingual cusps of mandibular posterior teeth and the buccal cusps of the maxillary posterior teeth
 - guide the mandible in lateral movement

A. and Isselhard, D. (2014). Anatomy of Orofacial Structures: A Comprehensive Approach (7th ed). Elsevier Mosby. St. Louis, MO.









Mandible

The contacts of the occlusal parts of the masticatory teeth: cuspfossa and cusp-marginal ridge type contacts



Occlusion – Terminology Reviewoo • Canine Guidance

 During lateral mandibular movement (i.e. lateral excursion) the opposing upper and lower canines of the working side contact thereby causing disclusion of all posterior teeth on the working side and bala **W**ing side

Image: http://www.italiandentalacademy.com

https://www.youtube.com/watch?v=8ngvyEbif g

Anatomy of Orofacial Structures: A Comprehensive Approach (7th ed). Elsevier Mosby. St. Louis, MO.



Occlusion – Terminology Reviewood • Group Function

- If when you slide laterally a number of teeth on your working side are in contact and he same time, all sharing the load, this is cated group function. This might happen if your cannes have worn down over time, or are crooked
- This is considered second best" occlusion.
- With group function, the heaviest loads should ideally be near the most anterior of these teeth, and lighter loads near the back.

acial Structures: A Comprehensive Approach (7th ed). Elsevier Mosby. St. Louis, MO



Occlusion – Terminology Reviewoo

- Malocclusion
 - A deviation from normal occlusion of one or more teeth in the dental arches.

- Lateral Interference
 - A discrepancy in natural occlusion detected on lateral excursion 🗸
 - Can cause significant bite sensitivity

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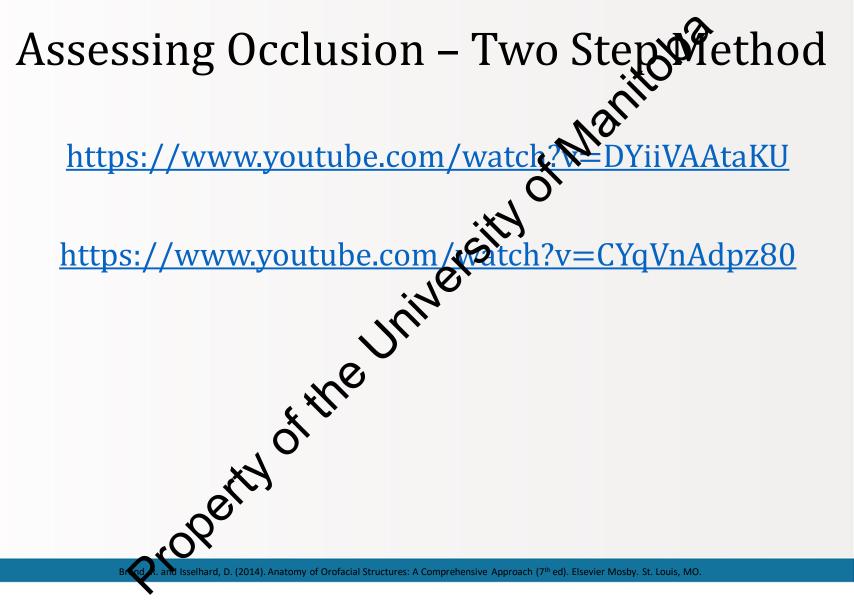
Assessing Occlusion – Two-Step Method

Check occlusion in the supine AND seated position

- 1. Dry the teeth with gauze
- 2. Using articulating paper, have the patient "tap, tap, tap" on the paper
- 3. Flip the paper over and have the patient "gently grind from side to side"
- 4. Ask the patient: "How does that feel? Does it feel like you are biting on anything?"
- 5. Based on your patient's feedback and the images on your registration paper, adjust accordingly
 - Determine the intensity of the markings are all markings the same?
 - #6 or #Cound bur, green or white stone

nd A. and Isselhard, D. (2014). Anatomy of Orofacial Structures: A Comprehensive Approach (7th ed). Elsevier Mosby. St. Louis, MO.











Summary

- Occlusion
- Centric Occlusion
- Intercuspation
- Functional Cusps
- Non-Functional Cusps
- Canine Guidance
- **Group Function**
- Malocclusion
- Lateral Interference
- web the University of Manitoba Two step technique for assessing and adjusting occlusion following restoration placement





A ch participant will now practice assessing the occlusion on two separate areas using the two step method of occlusal assessment

