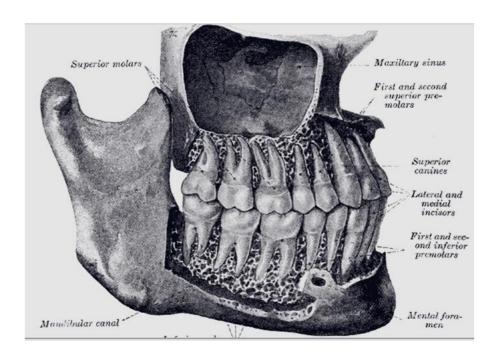
Dental Anatomy

Lec 8 Dr. Dhifaf Kamil

The occlusion



- Occlusion: means simply the contact between teeth.
 More technically, it is the relationship between the maxillary (upper) and mandibular (lower) teeth when they approach each other, as occurs during chewing
- Malocclusion is the misalignment of teeth and jaws, or more simply, a "bad bite." Malocclusion can cause number of health and dental problems.

- Static occlusion refers to contact between teeth
 when the jaw is closed and stationary, while
 dynamic occlusion refers to occlusal contacts
 made when the jaw is moving, as with chewing.
- Centric occlusion is the occlusion a person makes when they close their jaw and fit their teeth together in <u>maximum inter cuspation</u>. It is also referred to as a person's bite, or inter cuspation position (ICP). Centric relation, not to be confused with centric occlusion, is a relationship between the upper and lower jaw.



General features of occlusion:

- •There are five positions of the mandible: centric relation, centric occlusion, right and left lateral movement, retrusive, and protrusive.
- •Centric relation: is jaw to jaw relationship (upper and lower jaws) with the condyles in their midmost and uppermost position, it is coincide with centric occlusion.
- •Centric occlusion: is the occlusion when the jaws are closed and fit the teeth together in maximum inter cuspation, during the maximum inter cuspation the mesio-lingual cusp of maxillary molars occludes with central fossae of mandibular molars.
- The mesial surfaces of the central incisors both maxillary and mandibular are placed at median line.
- The mandibular central incisors because they are narrower mesiodistally will contact maxillary central incisors only. Every other teeth will show contact with two opposing teeth.
- Another point the location of cusp which contacting the opposing teeth: the mesiobuccal cusp of the mandibular first molar which is contact in relation to the maxillary second premolar and first molar in centric relation.
- In central occlusion the relation from the buccal aspect showed the relationship of the first molars: the relationship of the mesiobuccal cusp of the maxillary molar to mesiobuccal groove of the mandibular molar.

Protrusive Position:

- The mandible (lower jaw) moves forward from its normal position.
- The **lower front teeth** are **in front of** the upper front teeth.



Retrusive Position:

• The mandible moves backward from its normal or centric relation.



Lateral movement is when the mandible (lower jaw) moves to the side, either right or left, relative to the maxilla (upper jaw).

- Working side: The side toward which the mandible moves.
 - Canine or group function contact
- **Non-working side** (balancing side): The side opposite the direction of movement.

Ideally no contact (no interference)

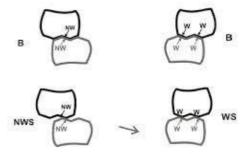


Fig. 11. When the mandible moves to the left, the inclines marked W must remain in contact on the working side (WS) and the inclines marked NW must remain in contact on the nonworking side (NWS), for them to remain in contact.



Left Lateral Movemet