

OCCLUSION IN FIXED PROSTHODONTICS

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BIOLOGIC OR PHYSIOLOGIC OCCLUSION

- It is defined as an occlusion in which a functional equilibrium exist between all tissues of masticatory system.
- A physiologic occlusion implies a balance between occlusal stress and tissue resistance. • The biologic processes and local environmental factors are in balance.



VIZLE CANINE PROTECTED OCCLUSION/MUTUALLY PROTECTED OCCLUSION

- The Journal of Prosthetic Dentistry (2017) defines mutually protected occlusion as ‘an occlusal scheme in which the posterior teeth prevent excessive contact of the anterior teeth in maximal intercuspal position, and the anterior teeth disengage the posterior teeth in all mandibular excursive movements.
- The Glossary of Prosthodontic Terms defines canine guidance as a form of mutually protected occlusion in which the vertical and horizontal overlap of the canine teeth disengage the posterior teeth in the excursive movements of the mandible. Accordingly, when the mandible moves to one side, the overlap of canines results in separation (disclusion) of posterior teeth on the working side. The mandible is guided by the canines during its lateral excursions with posterior teeth disclusion





Long Centric (Freedom in centric)

When centric relation and centric occlusion do not coincide, a freedom is given to close the mandible either into centric relation or slightly anterior to its centric occlusion with a smooth gliding, without affecting and change in vertical dimension of occlusion.

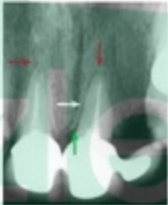
As the concept of unilateral balance evolved, it was suggested that allowing some freedom of movement in an anteroposterior direction is advantageous. This concept is known as long centric.

It is important for the posterior teeth to be in harmonious gliding contact when the mandible translates from centric relation forward to make anterior tooth contact.

Points to understand.....

- Long centric involves primarily the anterior teeth
- Long centric refers to freedom from centric....not freedom in centric

Signs & Symptoms

Teeth	Periodontium	Trauma From Occlusion	Musculature	TMJ
<ul style="list-style-type: none"> • Mobility • Open contacts • Abnormal wear like fracture or chipping of incisal edges 	<ul style="list-style-type: none"> • Chronic Periodontal disease • Widened PDL Space (Radiographically) • Tooth Movement and A compromised C:R Ratio. 	<p>A widened periodontal ligament space (detected radiographically) may indicate premature occlusal contact and is often associated with tooth mobility .</p> <p>isolated or circumferential periodontal defects are often associated with occlusal trauma. In patients with advanced periodontal disease who have extensive bone loss, rapid tooth migration may occur with even minor occlusal discrepancies</p> 	<p>Chronic muscular fatigue leading to muscle spasm and pain • Restricted opening or trismus • Myositis</p>	<p>Pain, Clicking or popping in the TMJ</p>



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