



Definitions of certain orthodontic terms

Lec. 2

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١٦ أيلول، ٢٠٢٣

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Classification of malocclusion

Permanent Dentition

malpositions of individual tooth

Angle described seven malpositions of individual teeth: (1) buccal or labial, (2) lingual, (3) mesial, (4) distal, (5) torso (rotated), (6) infra (not erupted sufficiently to reach the occlusal plane), and (7) supra (erupted through and beyond the occlusal plane). These individual tooth malpositions can be used to describe a malocclusion more fully.

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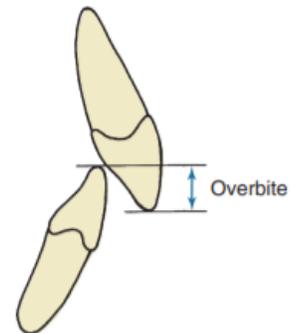
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Definitions of certain orthodontic terms

Malocclusion of individual tooth

Overbite

Overbite is the amount of vertical overlap between the maxillary and mandibular central incisors.



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Overbite

This relationship can be described either in millimeters or more often as a percentage of how much the upper central incisors overlap the crowns of the lower incisors.

- Measured in
- mm
 - Percentage
 - third

Normally, the incisal edges of the lower teeth should contact slightly at or above the cingulum of the upper teeth, which is approximately 1-3 mm overbite. Due to differences in the crown lengths of the incisors, normal overbite is about 30% or one third of the clinical crown height of the mandibular incisors.



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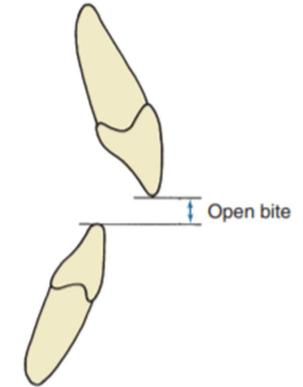
علاج

Open bite

In open bite (negative overbite), there is no vertical overlap, and the vertical separation of the incisors is measured to quantify its severity.



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Overjet

Overjet is the horizontal relationship or the distance between the most protruded maxillary central incisor and the opposing mandibular central incisor.



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Overjet

This relationship is expressed in millimeters. The normal range of overjet in the primary dentition varies between 0 and 3-4 mm.



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Overjet

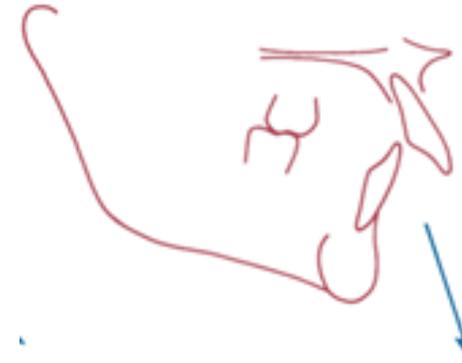
If the maxillary incisors are lingual to the mandibular incisors, the relationship is described as an reverse overjet OR anterior crossbite (underjet).



reverse overjet (Class III)

Overjet

Class II
Molar and jaw relationship



Overjet of 5 mm or more, suggesting Angle's Class II malocclusion, increased Overjet mean (Class II)

Instanding tooth

Growing inward or with an inward tendency

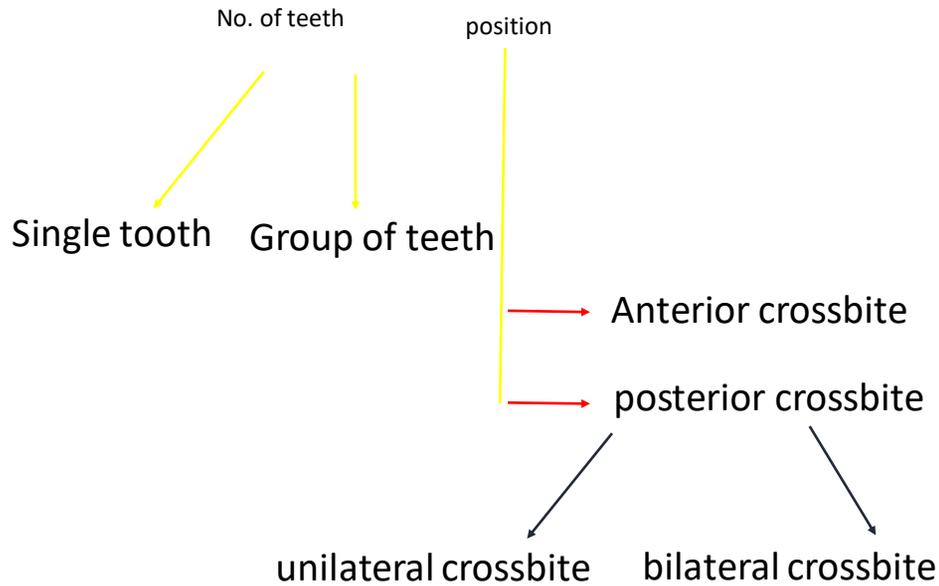


cross bite

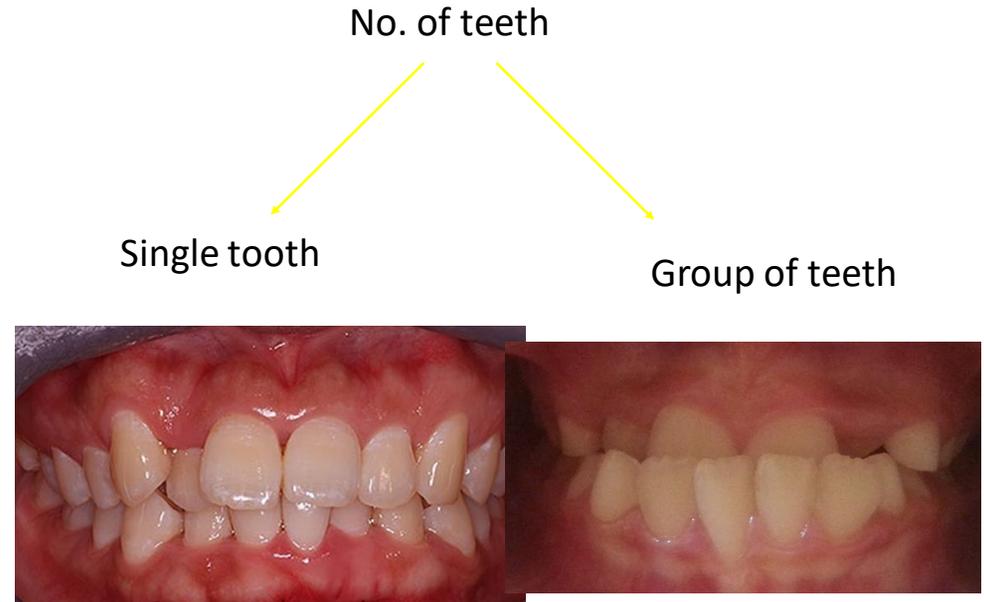
occlusal irregularity where a tooth (or teeth) has a more buccal or lingual position than its corresponding antagonist tooth in the upper or lower



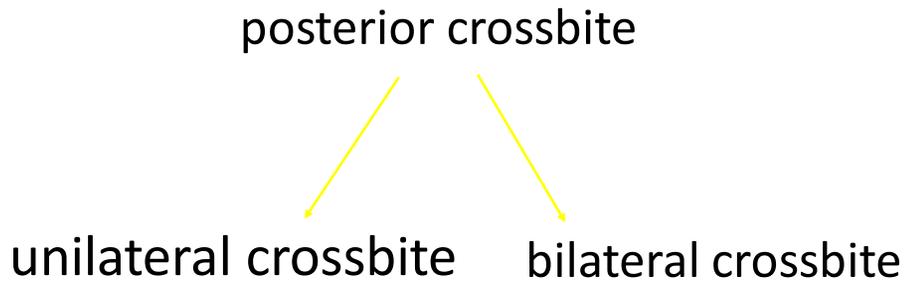
Crossbite



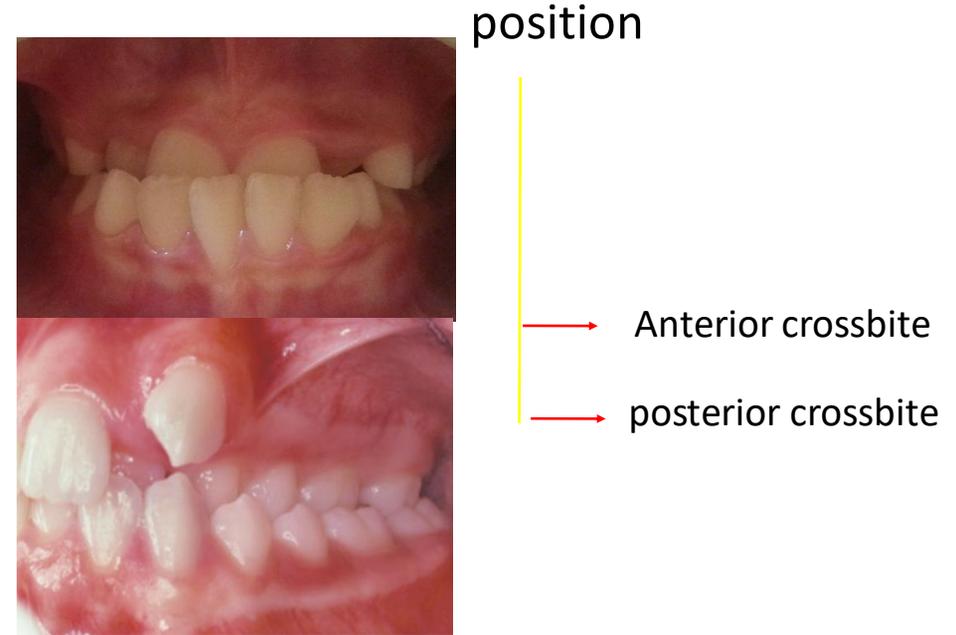
Crossbite



Crossbite



Crossbite



**PLEASE
NOTE:**

Clinical consideration

Crossbite should be treated once it diagnosed, why ???

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**PLEASE
NOTE:**

Clinical consideration

Crossbite should be treated once it diagnosed because ???



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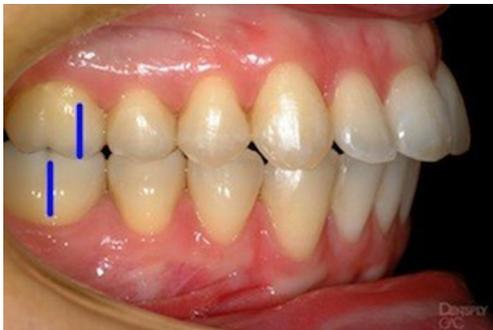
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Tipping or Inclination

Buccal inclination or proclination (when the crown of the tooth is tipping outside the line of occlusion)

proclination

Angle's Class II div. 1 With proclination of all the upper incisors



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Tipping or Inclination

Lingual inclination or—retroclination (when the crown of the tooth is tipping inside the line of occlusion)

Angle's Class II div. 2 With retroclination of the upper central incisors

retroclination



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Mesial inclination or tipping

crown tilted mesially or farther forward than normal



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Distal inclination or tipping

crown tilted distally or backwards than normal



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protrusion & intrusion DENTAL & SKELETAL

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Procination (dental)

common

if the incisors are positioned facially (proclined)



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Retroclination (dental)

Rare

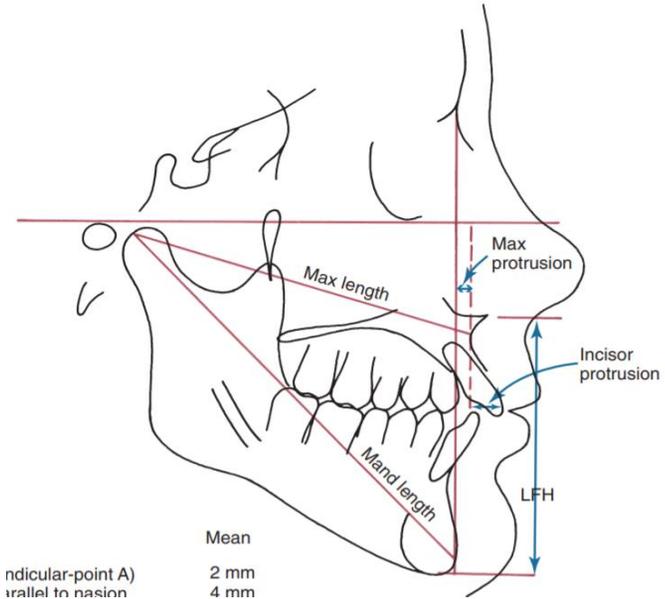
if the incisors are positioned lingually (retroclined)



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Protrusion (dental & skeletal)



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Skeletal protrusion

Now we are talking about the dentoalveolar (skeletal problem)



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Skeletal retrusion

Now we are talking about the dentoalveolar (skeletal problem)



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**PLEASE
NOTE:**

Clinical consideration

Severe dental protrusion or retrusion, which also are complex treatment problems, should be recognized during the facial profile analysis.

The urgency for treating these problems usually depends on the esthetic impact or, in the case of protrusion, the potential for traumatic injury. Otherwise, they should be treated as noted earlier

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tooth displacement



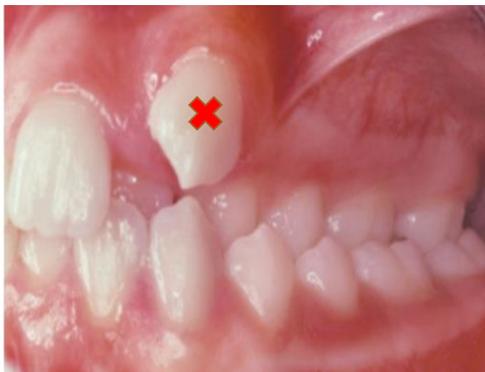
There is moderate maxillary incisor crowding, with the midline off due to displacement of the maxillary incisors. The maxillary incisors are tipped lingually, there is minimal overjet despite Class II buccal segments, and overbite is excessive

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Displacement

Buccal displacement—tooth that is bodily moved in labial/buccal direction



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Displacement

Lingual or palatal displacement—tooth that is bodily moved in lingual or palatal direction

== In standing tooth



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Displacement

Mesial displacement—tooth that is bodily moved in mesial direction



Displacement

Distal displacement—tooth that is bodily moved in distal direction



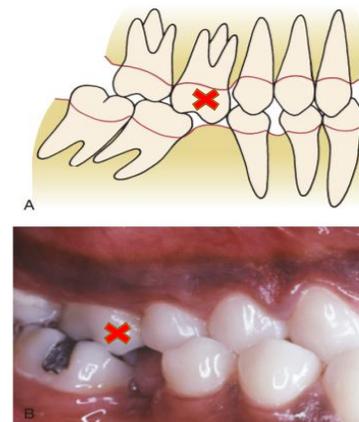
Infraversion or infraocclusion

this is a tooth that has not erupted enough as compared to other teeth in the arch



Supraversion or supraocclusion

this is a tooth that has overerupted as compared to other teeth in the arch.

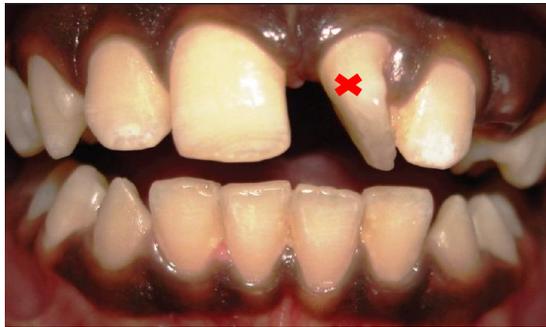


Rotation

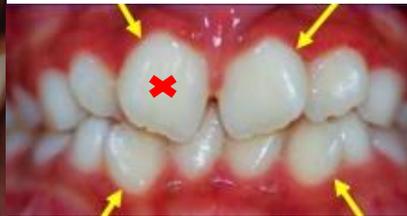
tooth movement around its long axis

degree of rotation

Sever > 90°

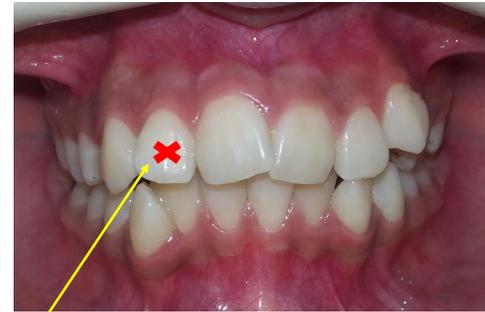


Mild



Rotation

Mesiolingual or distobuccal rotation—tooth that has mesial aspect more lingually placed

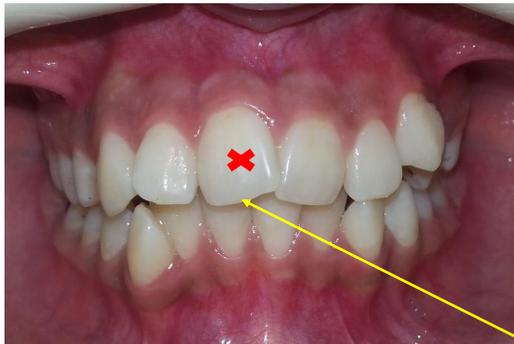


Mesiolingual



Rotation

Distolingual or mesiobuccal rotation—tooth that has moved around its long axis so that distal aspect is more lingually placed.



mesiobuccal

Transposition

where the teeth have exchanged/interchanged their positions



Imbrication

Imbrication denotes especially lower incisors arranged in an irregular manner within the arch due to lack of space.

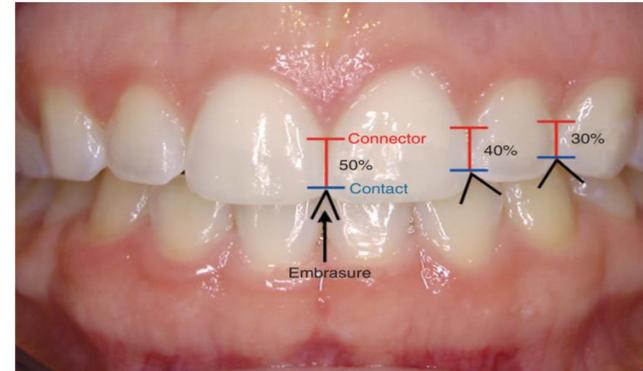


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overlap

Overlap: In a normally occluding dentition, the maxillary teeth are labial/buccal to the mandibular teeth.



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Overlap



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impaction

Impacted teeth those teeth that fails to erupt into the dental arch within the expected time



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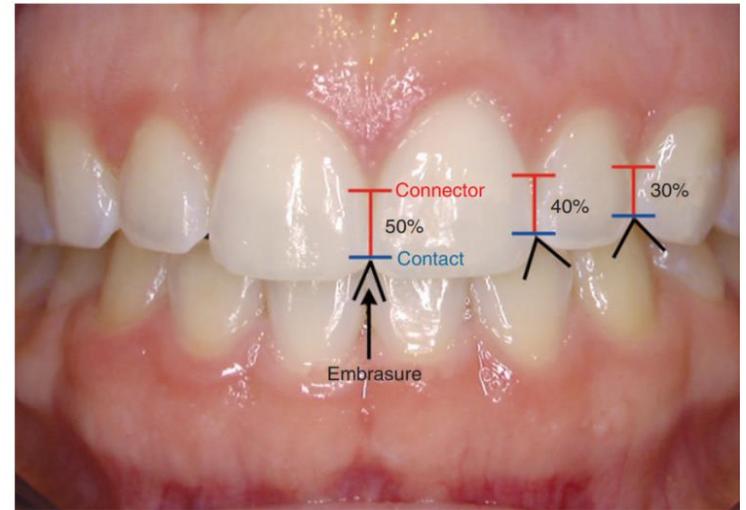
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Malposed tooth or teeth

Ex. Buccally malposed canine



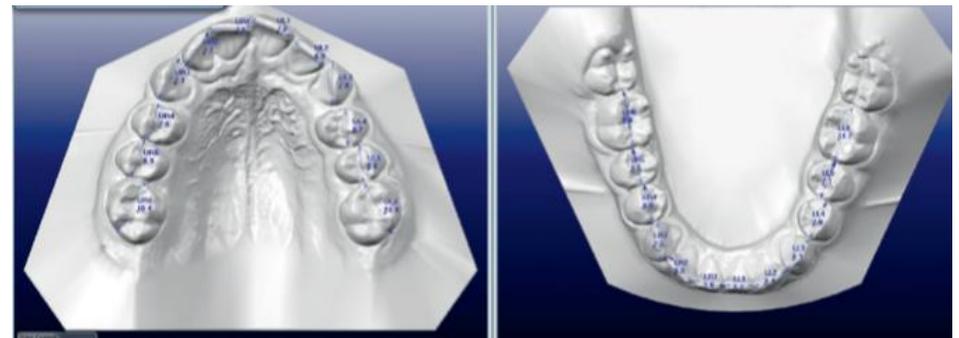
وَكُلُّ شَيْءٍ عِنْدَهُ بِمِقْدَارٍ (٨ الرعد) dental midline



midline deviation (shifting) or off midline



A tooth size-arch length discrepancy (TSALD)



A tooth size discrepancy

A tooth size discrepancy of less than 1.5 mm is rarely significant, but larger discrepancies create treatment problems in achieving ideal interdigitation, overjet and overbite

A tooth size-arch length discrepancy (TSALD)

Spacing

crowding



Spacing

localized

generalized



Crowding

Mild

<4mm

Moderate

4-8mm

Sever

> 8 mm