

The permanent Maxillary Lateral Incisor



It is smaller than the maxillary central incisor in all dimensions except the length of the root. Usually as long, if not: longer, than that of the maxillary central incisor.

Maxillary lateral incisors vary in form more than any other tooth in the mouth except the third molar.

Landmarks on maxilla atteral Incisor

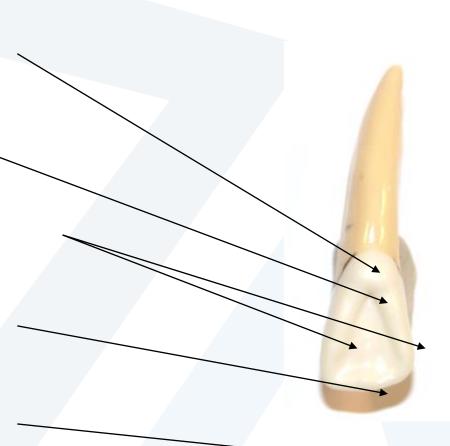
CL: Cervical Line.

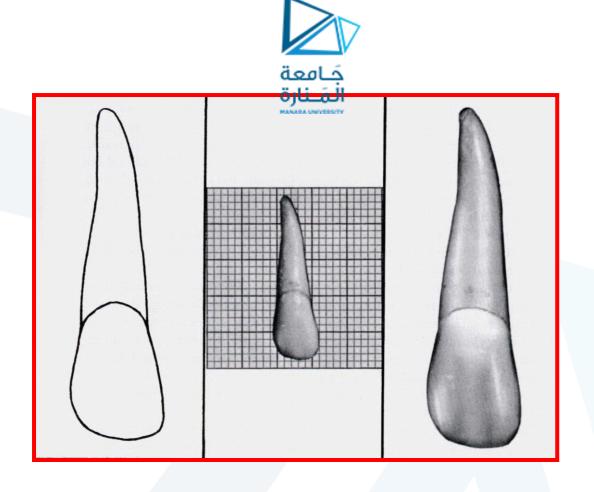
• CI: Cingulum.

• MR: Marginal Ridge.

• LF: Lingual Fossa.

• IR: Incisal Ridge.





Labial Aspect: It has more curvature with a rounded incisal ridge and rounded incisal angles mesially and distally than central incisor. Although the crown is smaller than the central incisor in all dimentions. In most cases, the root curves distally, and ends in a pointed apex, some roots are straight.

https://manara.edu.sy/



Labial aspect

- Labial height of contour is prominent and located in the gingival 1/3.
- Distal surface is usually more "round" than the flatter mesial surface.



• There is much variation in shape of this tooth from this view .





Labial aspect

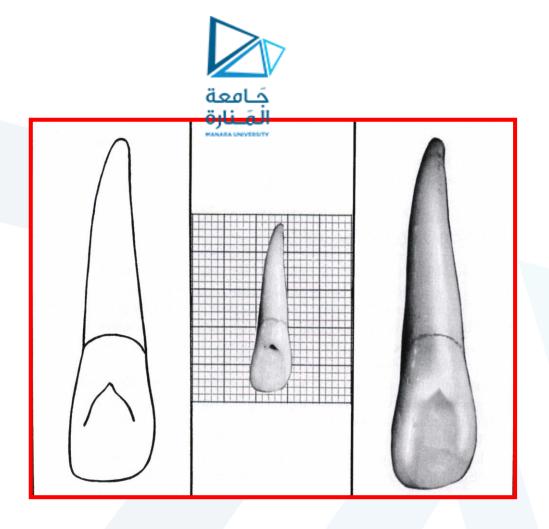
- Some lateral incisors have such a rounded appearance as to be almost tear-drop shaped.
- In some idividuals, the lateral incisors are missing entirely.



Labial aspect

 Crown shorter incisogingivally than the central incisor, usually 2-3-mm, and its angles are more rounded. This tooth narrower mesiodistally than central.





Lingual Aspect: Mesial and distal marginal ridges are marked, and the cingulum is usually prominent, with tendency toward deep developmental grooves within the lingual fossa, where it join the cingulum.



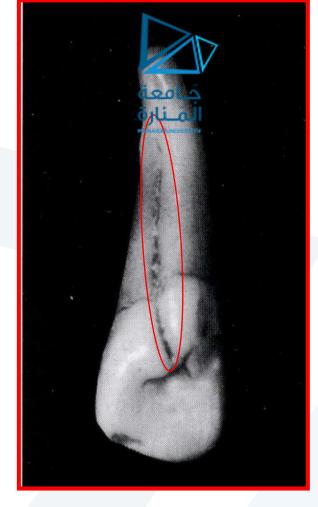
Palatal aspect

• Distinctive deep lingual fossa with linguogingival groove or lingual pit often present.





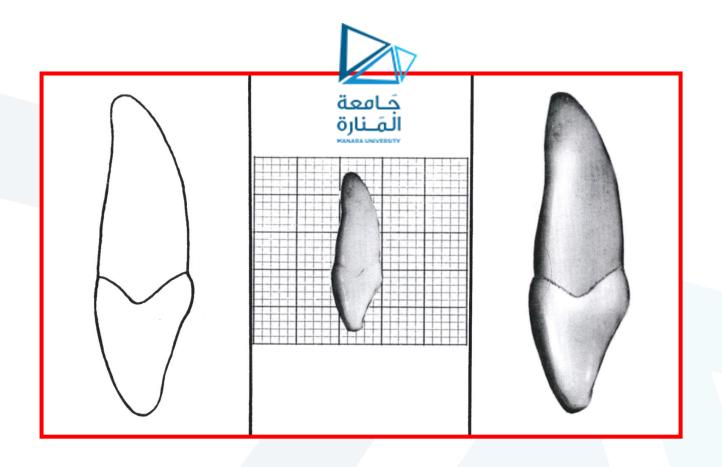
It is not uncommon to find a deep developmental groove at the side of the cingulum, usually on the distal side, which may extented up on the root for part or all of its length.



(Palto-radicular) groove

Incomplete formation demonstrated by a developmental groove distolingually on maxillary Lateral incisor (Paltoradicular) groove.

A tooth with a handicap is more subject to caries.



Mesial aspect: The mesial aspect is similar to that of a small central incisor, but the crown is shorter, and the root is relatively longer. The root appears as a tapered cone, with abluntly rounded apex..



Mesial aspect

• A line drown through the center of the root bisects the incisal ridge of the crown .





Mesial aspect

• Well developed marginal ridges meet at the cingulum in a rounded V-shape .



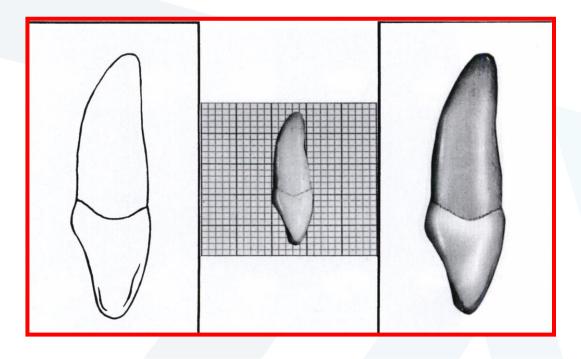


Mesial aspect

 the depth of curvature of the cervical line in mesial surface is greater towards the incisal ridge than the distal cervical line curvature.







Distal Aspect: The width of the crown distally appears thicker than it does mesially from marginal ridge to labial face. The curvature of the cervical line is usually a millimeter or less in depth than on the mesial side.



Distal aspect

• Incisal ridge is centered over the long axis of the tooth .



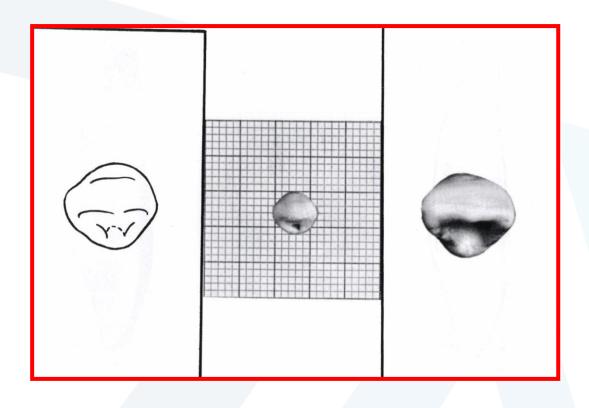


Distal aspect

The contour of the cervical line is flatted than that on the mesial, and therefore positioned slightly apical to the mesical cervical line.







Incisal Aspect The incisal aspect of this tooth sometimes resembles that of the central incisor ,or it may resemble that of a small canine .



All maxillary lateral incisors exhibit more convexity labially and lingually from the incisal aspect than maxillary central incisors.



Incisal aspect

 Marginal ridges are well developed and tend to meet at the cingulum in a Vshape.





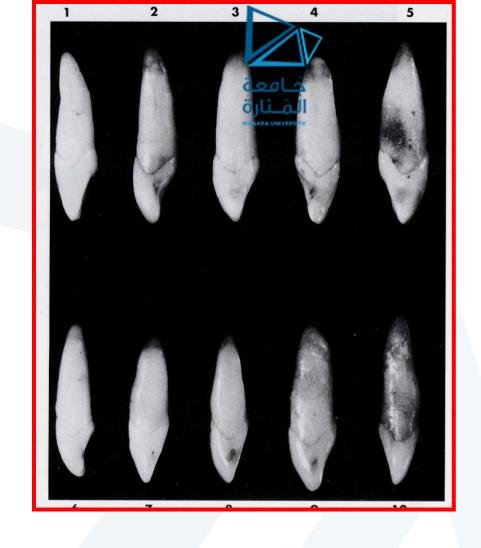
Incisal aspect

- This tooth is more convex than its central incisor neighbor.
- Labial contour is a full convexity, both incisogingivally and mesiodistally.
- Lingual fossa depth highlighted with a lingual pit.





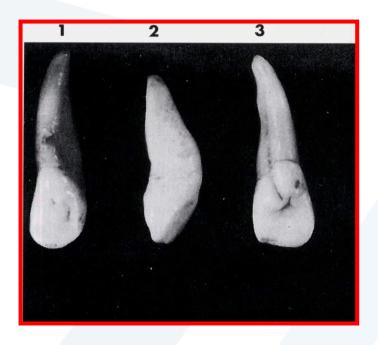
Labial aspect ,Ten Typical specimens of the maxillary lateral incisor .



Mesial aspect ,Ten Typical specimens of the maxillary lateral incisor .

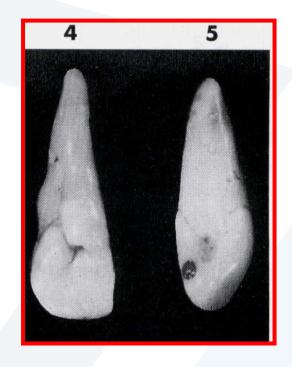


Maxillary tarteral incisor: specimens with uncommon variations



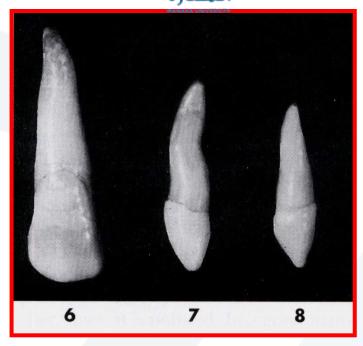
- 1-Odd twist to crown and root.
- 2-malformed generally.
- 3-Deep developmental (Palto-radicular) groove distally ,note pit in lingual fossa.

Maxillary lateral incisor: specimens with uncommon variations



- 4-Same as specimen 3 with pit and groove connected.
- 5-Deep concavity above contact area of the crown.

Maxillary lateral incisor: specimens with uncommon variations



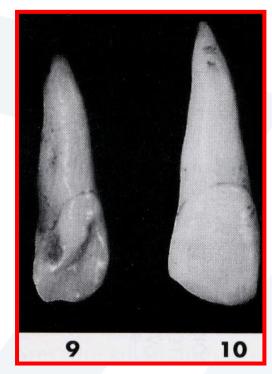
6-Abnormally large but well formed.

7-A common situation is to find maxillary lateral with a nondescript, pointed form, such teeth are called peg-shaped laterals.

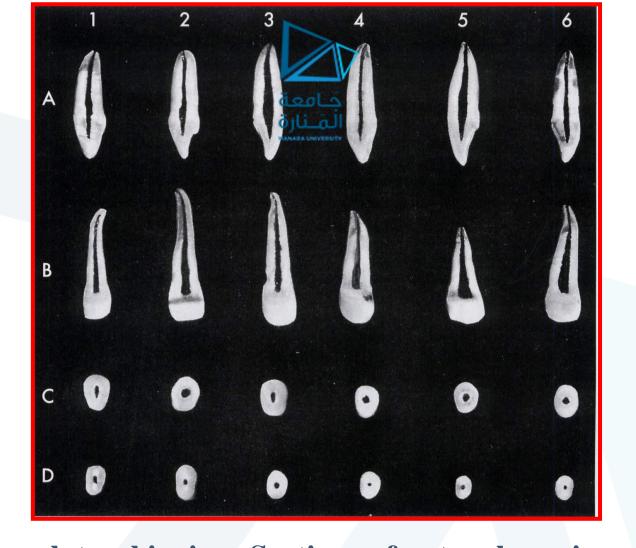
(Single-cusp developmental and malformed root called peg lateral incisor).

8-same as specimen 7, except root is straight.

Maxillary lateral incisor: specimens with which mmon variations



- 9- Same as specimen 5, with deep lingual pit in addition.
- 10- Resemblence to a small maxillary central incisor more marked than the average.



Maxillary lateral incisor-Sections of natural specimens: A,1 to 6: Labiolingual sections.B,1 to 6: Mesiodistal sections. C, 1 to 6: Cervical cross sections of root .D, 1 to 6: Midroot cross sections.