



Mandibular central incisor



Permanent mandibular central incisor (characteristics) :

- Mandibular central incisors are two in number .
- Mandibular central incisor and lateral are similar in anatomy and complement each other in function .
- They are smaller than the maxillary central incisors .
- Mandibular central incisor erupts between the age of 7 and 8 years .
- The incisal ridge incline lingually
- The root is single and very narrow mesiodistally

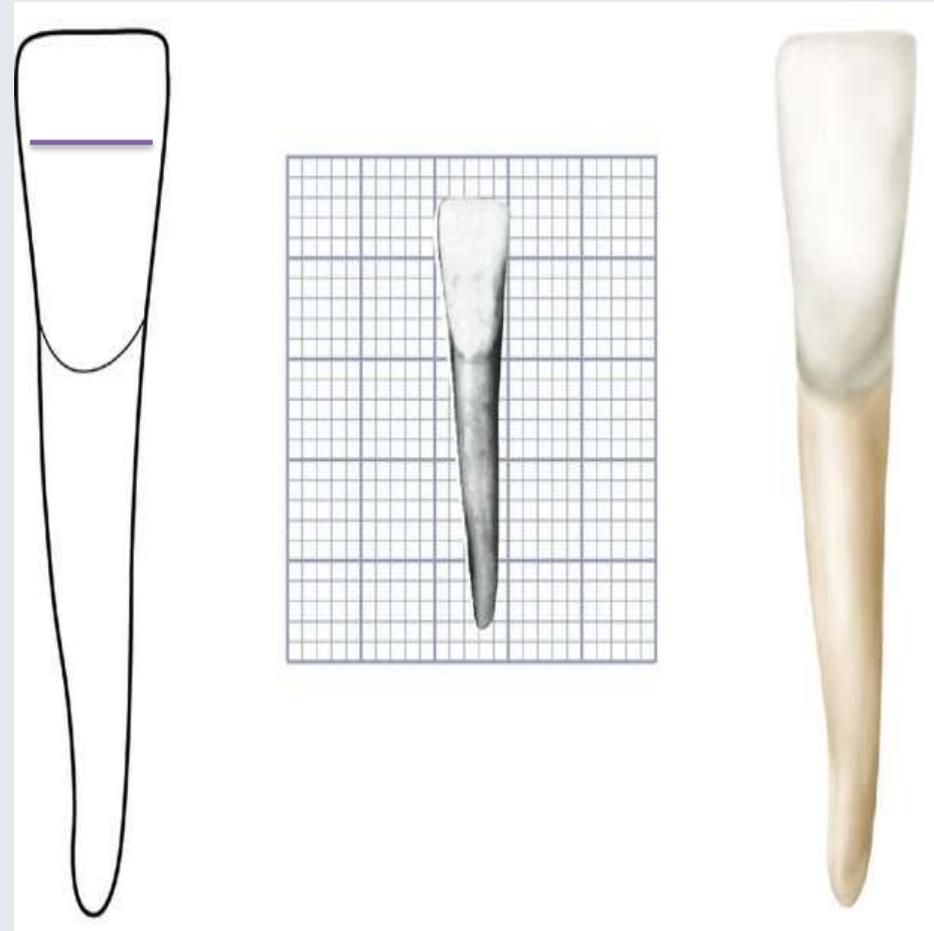


Average dimension in millimeter :

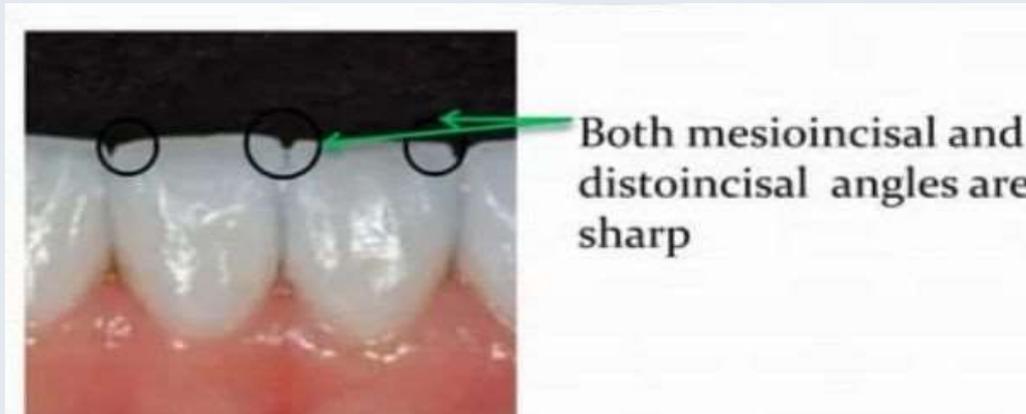
Crown Length	Root Length	Mesio-distal diameter at contact area	Mesio-distal diameter at cervical line	Labio-lingual diameter at crest of curvature	Labio-lingual diameter at cervical line	Curvature of cervical line from mesial view	Curvature of cervical line from distal view
9	12.5	5	3.5	6	5.3	3	2

Labial Aspect :-

1. The labial surface of mandibular central incisor is very small.
2. It is the narrowest tooth mesiodistally of all the permanent teeth.
3. It is bilaterally symmetrical



4. It is the only incisor where both mesioincisal and distoincisal angles are sharp and at right angles .



5. The contact areas at the incisal angle.

6. The root outlines on the mesial and distal are straight with apex curved distally.

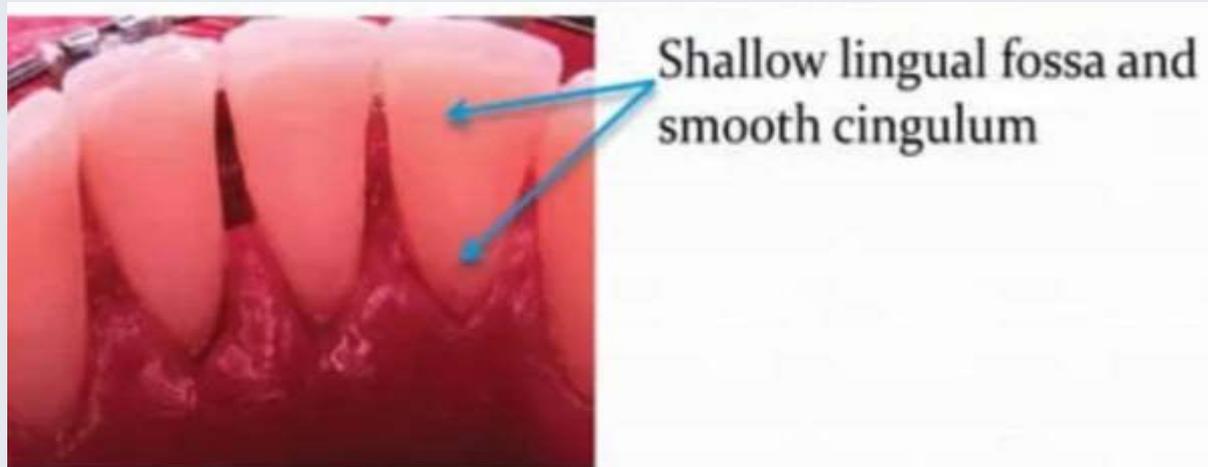


Lingual aspect :

- 1.The lingual surface is smooth with very slight concavity at the incisal third



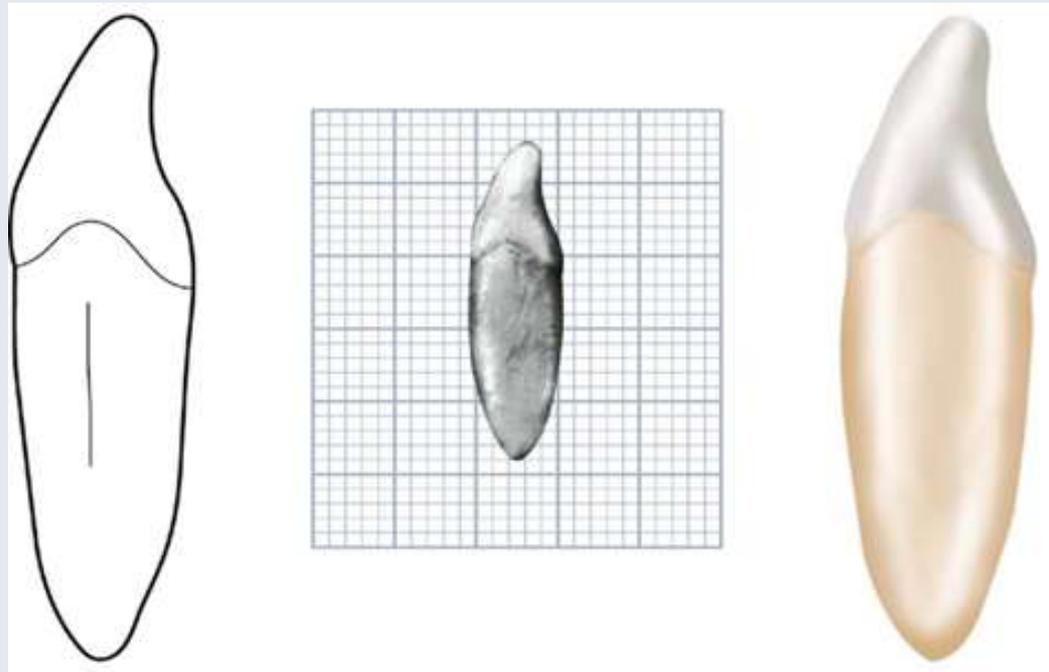
- 2.Shallow lingual fossa and the cingulum is smooth and barely visible



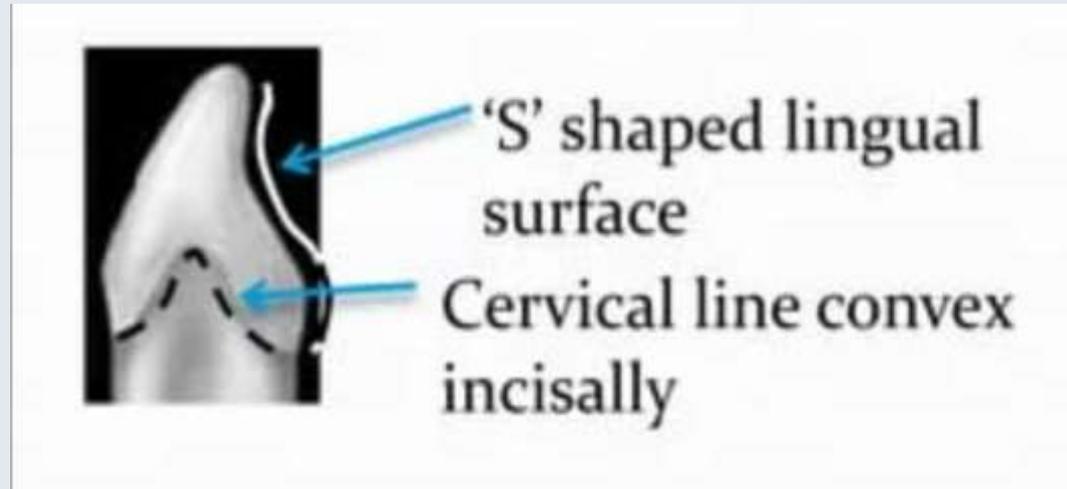
4. The surface is smooth and avoid of any groove
5. The cervical line is placed 0.5 apically making the crown longer 0.5 on lingual side .

Mesial aspect :

1. The labial outline is almost straight, except near cervical third where it is convex.

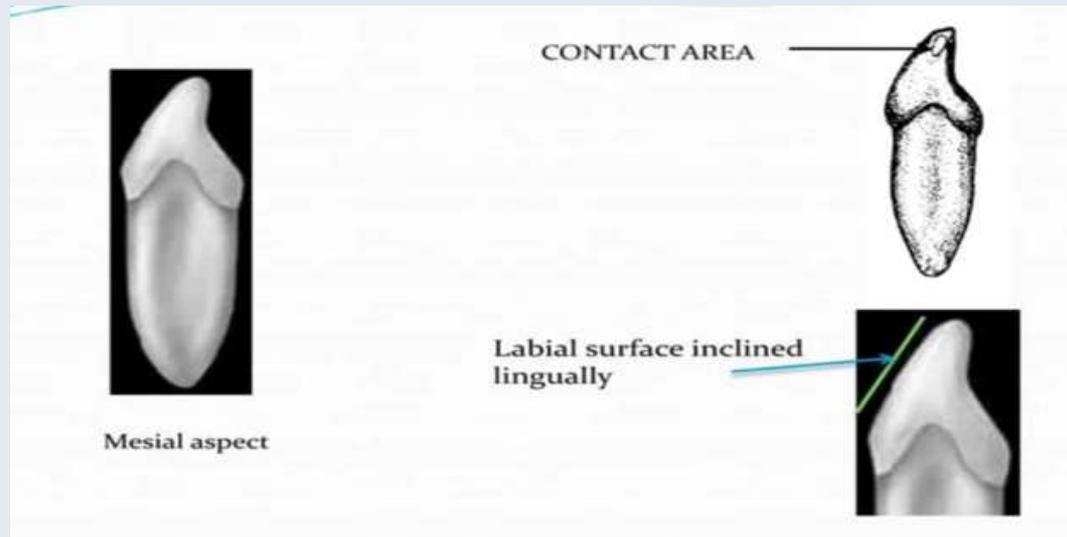


2. The lingual margin is 'S' shaped.



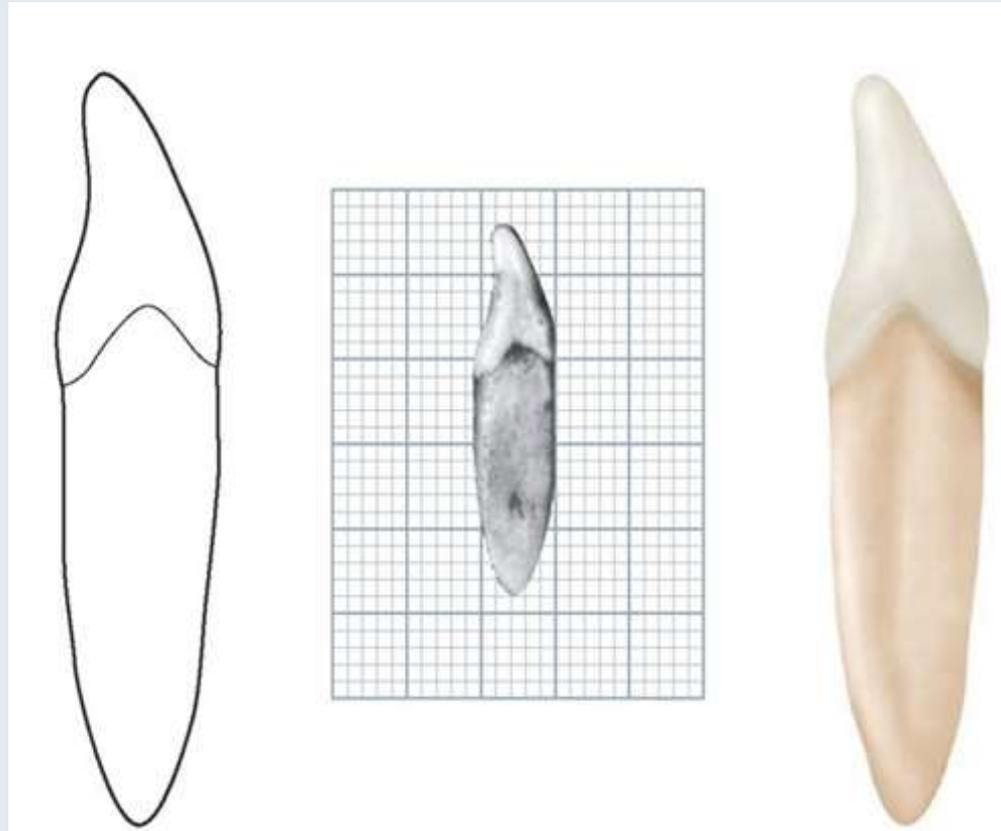
3 .the curvature of the cervical line curves incisally about one- third of the crown length.

4. The labial surface is inclined lingually .



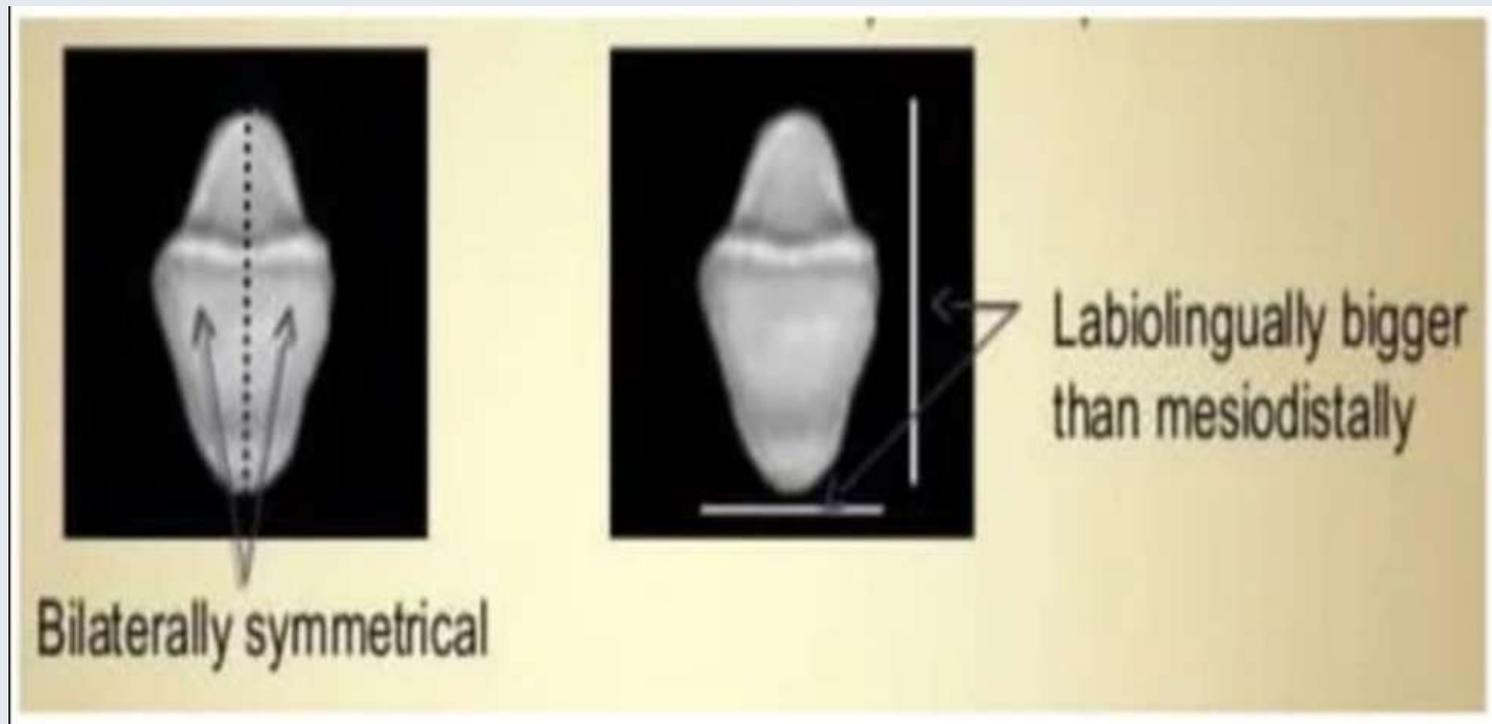
Distal aspect :

1. Distal surface is very similar to the mesial surface.
2. The cervical line is less curved .



Incisal aspect :

1. This aspect illustrates the bilateral symmetry of this tooth this mean the mesial half is very similar to the distal half .



2.The labiolingual diameter is greater than mesiodistal diameter.

3.Newly erupted teeth show mamelons which wear off upon mastication.



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The root :

1. The root is single and straight.
2. The deflection of the root if present is on the labial or distal side.



thank
you

