

Tooth Morphology

PERMANENT MANDIBULAR CANINE

CONTENTS

- Chronological features of maxillary canine
- Various aspects of maxillary canine
- Identifying features of maxillary canine
- Differentiating features between right and left maxillary canine
- To carve permanent maxillary canine



PERMANENT MANDIBULAR CANINE

CHRONOLOGY:

First evidence of calcification: 4-5months

Enamel completed: 6-7yrs

Eruption: 9-10yrs

Root completed: 12-14 yrs



PERMANENT MANDIBULAR CANINE

TRAITS:

Set trait: permanent

Arch trait: mandibular

Class trait: canine



LABIAL ASPECT

- Crown appears longer
- Mesial outline of crown is nearly straight with mesial outline of the root, with mesial contact area being near the mesio-incisal angle
- ▶ The cusp is on a line with the center of the root





LABIAL ASPECT

Distal contact area is more towards the incisal aspect than the max. one

▶ Root is shorter by I-2mm then the max.

Apical end is more pointed





LINGUAL ASPECT

- Lingual surface of the crown is flatter like the mandibular Incisors
- Cingulum is smooth & poorly developed
- Marginal ridges are less distinct
- ▶ The lingual portion is narrower relative to the max. canine





MESIAL ASPECT

- It has less curvature labially on crown
- Cingulum is not so pronounced & the incisal portion of crown is thinner labio-lingually
- The tip of cusp is more nearly centered over the root





MESIAL ASPECT

- Cervical line curves more towards the incisal portion as compared to the max. canine
- Developmental depression mesially on the root is more pronounced &deep





DISTAL ASPECT

The cervical line exhibits less curvature towards the cusp ridge distal marginal ridge is irregular in outline & heavier

Developmental depressions on distal side of the root is less pronounced as compared to mesial side



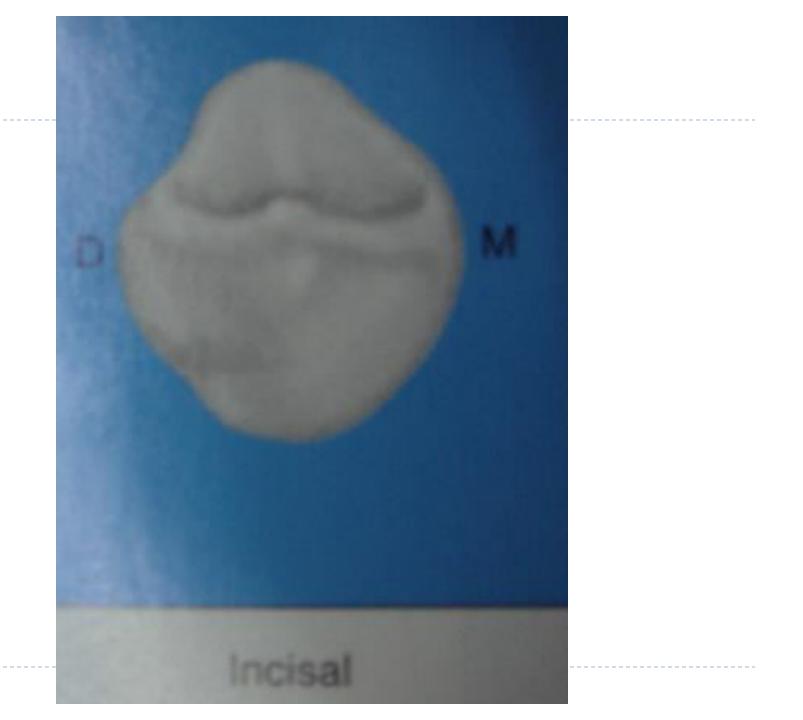


INCISAL ASPECT

- M-D dimension is less than labio-lingual
- Mesial surface is less curved

The cusp tip &mesial cusp ridge are more likely to be inclined in a lingual direction





Summary

- –Various aspects of
- -Mandibular canine
- Identifying features of Mandibular canine
- Differentiating features between right and left Mandibular canine



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THANKYOU!