



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





Facial/Labial

LABIAL ASPECT

- ▶ Distal contact area is more towards the incisal aspect than the max. one
- ▶ Root is shorter by 1-2mm than the max.
- ▶ Apical end is more pointed





Facial/Labial

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





Lingual

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





Distal

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



BIBLIOGRAPHY

- Wheeler's Dental Anatomy, Physiology and Occlusion Ash, M. M. 6th edition.
- Oral Development and Histology Avery, j. K. 1st edition.
- Color Atlas And Text Book Of Oral Anatomy, Histology Berkovitz, B. 1ST edition.
- Orban's Oral Histology and Embryology Bhaskar, s. N. 1th edition.
- Oral Histology : Development, Structure and Funct Tencate, a. R. 4th edition.
- Dental Embryology, Histology & Anatomy. Marry Bath- Balogh Inergaret. 2nd edition.

THANK YOU !

