

# The Morphology of dens molare

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Dental Anatomi  
Prodi Pendidikan Dokter Gigi  
FKIK UMY

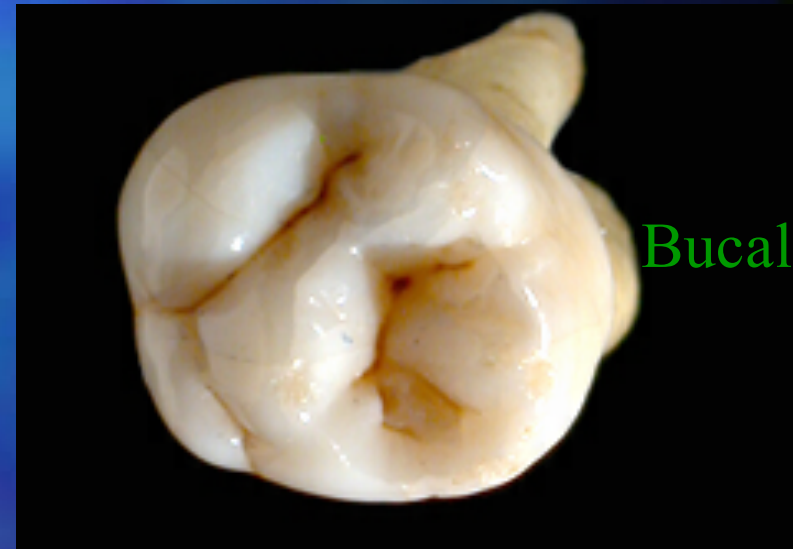
# Maxillary first Molare

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- Evidence of calcification birth
- Enamel completed 4 years
- Eruption 6-7 years
- Root completed 9-10 years

# Occlusal aspect

- Bentuk belah ketupat/jajaran genjang (rhomboidal)
- 4 tonjol (mesio bucal, disto bucal, mesio palatina, disto palatina)
- Tonjol terbesar mesio palatinal
- Tonjol terkecil disto palatinal
- 66 % ada TAC (tuberculum Anomali Carrabelli)
- Fisurra seperti H miring



Bucal

Mesial

# Buccal aspect

- Lebih lebar dari palatal
- Lebih datar dari palatal
- Mesio distal sebelah bucal lebih pendek dari bucco palatinal



# Distal & Mesial aspect



Distal

## Distal

- Halus & konvex
- Tonjol disto palatal <

Mesial



## Mesial

- Datar
- Sering ada tonjol tambahan di mesio palatinal disebut TAC

# Radix aspect

- 3 radix, 2 di bucal, 1 di palatinal
- Radix palatinal yg terpanjang, terbesar, ter-divergen
- Mesio bucal lebih lebar dari distal
- Disto bucal terkecil
- Pulp kanal 3
- divergen



**Maxillary 1st molar  
(right)**



**Mesial**

d



**Occlusal**

m



**Distal**



**Lingual**



**Facial**

# Maxillary Second Molare

- Evidence of calcification 3 years
- Enamel completed 7-8 years
- Eruption 11-13 years
- Root completed 14-16 years





# Occlusal aspect

M



P

- **Ada 3 tipe tonjol :**
  - Tipe 1 : bertonjol 4**
  - Tipe 2 : bertonjol 3, disto palatal tereduksi**
  - Tipe 3 : tonjol seolah tertarik hingga berbtk oval**
- **Tipe 1 occlusal btk belah ketupat/jajaran genjang/rhomboidal**
- **Tonjol 2 di bucal, 2 plt**
- **Tonjol terbesar mesio palatinal, terkecil disto palatinal**
- **Fissur H miring**

# Radix

- 3, 2 bucal, 1 palatinal
- Pulpa canal 3



Mesial

Distal





**Facial**



**Lingual**



**Mesial**



**Occlusal**

**Mandibular 2nd  
molar (right)**



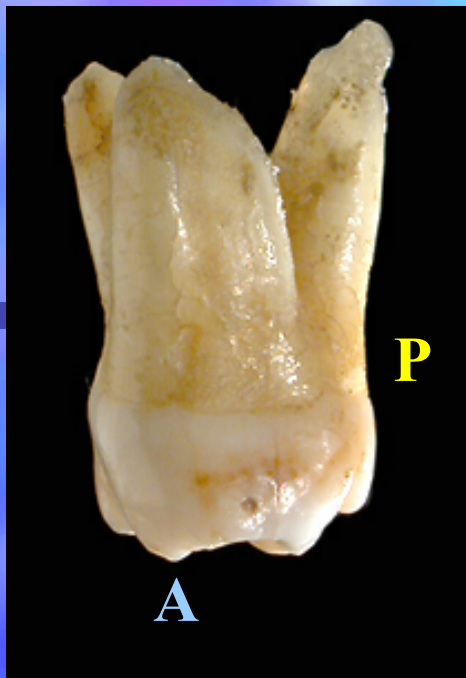
**Distal**

# Maxillary third molar

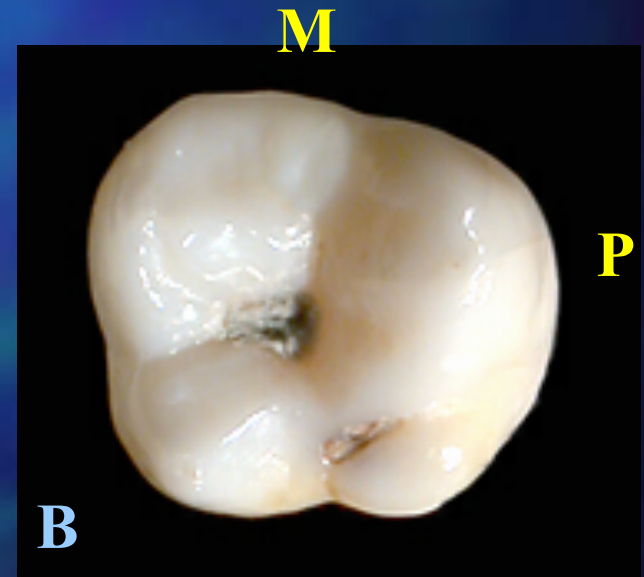
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- Evidence of calcification 7 years
- Enamel completed 12-16 years
- Eruption 17-22 years
- Root completed 18-25 years

- Banyak variasi ukuran, bentuk & posisi
- Bentuk occlusal bisa segi tiga, belah ketupat
- Bila segi tiga, yg hilang/mengecil cusp disto palatal, terbesar mesio palatal
- Mahkota terlalu besar untuk akarnya
- Fissure tidak teratur
- Radix 3, kadang jadi 1, canal pulp 3
- Akar pendek, kurang berkembang, konvergen, berfusi, bengkok ke distal



**Tampak Mesial**



**Tampak oklusal**

# Mandibullary first molar

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- Evidence of calcification birth
- Enamel completed 3 years
- Eruption 6 years
- Root completed 9-10 years

# Occlusal aspect



- Bentuk pentagonal (Brand) / hexagonal (Wheller)
- 5 tonjол, 3 di bucal, 2 di lingual
- Tonjол terbesar mesio bucal, terkecil disto bucal



# Buccal & lingual Aspect

## Buccal

- Konvex dg kronenflucht
- Ada sulcus yg berjalan ke oklusal menjadi fissura



## Lingual

- Datar/vertikal
- Tonjol > tinggi dari tonjol bucal



# Radix



- 2, 1 di mesial, 1 di distal
- Mesial lebih tebal & besar
- Canal pulp 3, 2 di mesial, 1 di distal
- Kadang ada akar tambahan, kecil & bengkok
- Akar kalau membelok ke distal



**Facial**



**Lingual**



**Mesial**



**Occlusal**

**Mandibular 1st  
molar (right)**



**Distal**

# Mandibullary second molar

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- Evidence of calcification 2-3 years
- Enamel completed 7-8 years
- Eruption 11-13 years
- Root completed 14-15 years

# Occlusal aspect

- Tonjol 4 dg besar hampir sama
- bentuk rectangular
- Fissur berbentuk palang
- Tonjol bucal/lingual ada 2 dipisahkan oleh bucal/lingual groove



M

Bucal

# Buccal & lingual aspect



Buccal



Lingual

## Buccal

- Convex dg kronenflucht

## Lingual

- Lebih vertikal & lebih tinggi

## Radix

- 2, mesial & distal
- Akar mesial > tebal & lebar
- Canal pulp 3, 2 mesial, 1 distal

# Mandibullary third molar

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- Evidence of calcification 2-3 years
- Enamel completed 7-8 years
- Eruption 11-13 years
- Root completed 14-15 years

- Tonjol & facies oclusalis tidak teratur
- Occlusal lebih sering berbentuk oval
- Sering tidak erupsi, tapi terpendam dalam tlg rahang
- Akar 2sering jadi1
- Canal pulptetap 3 walau akar bersatu



# TERIMA KASIH

