



Endodontic Lab 724

Mar 10, 2022

Session IX

Maxillary or Mandibular Canine

Remember the fish



Today's Plan

8:00 – 8:15

Quiz

8:15 – 8:45

Canine Access Lecture

Review Apical Gauging

8:45 – 11:30

**Lab: Max/Man Canine-
Access/C&S/Obturate**

11:30 – 11:45

Review

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**Lab: Max/Man Canine- Access/Clean &
Shape/Obturate**

11:30 – 11:45

Review

Next Week

- **Theme: Favorite Decade Day**
- **Summative Assessment**
 - **Access only teeth: mandibular incisor, canine (arch you did are not completing today), maxillary lateral incisor**
- **Catch up**

Anterior Access Review

- **Goal**

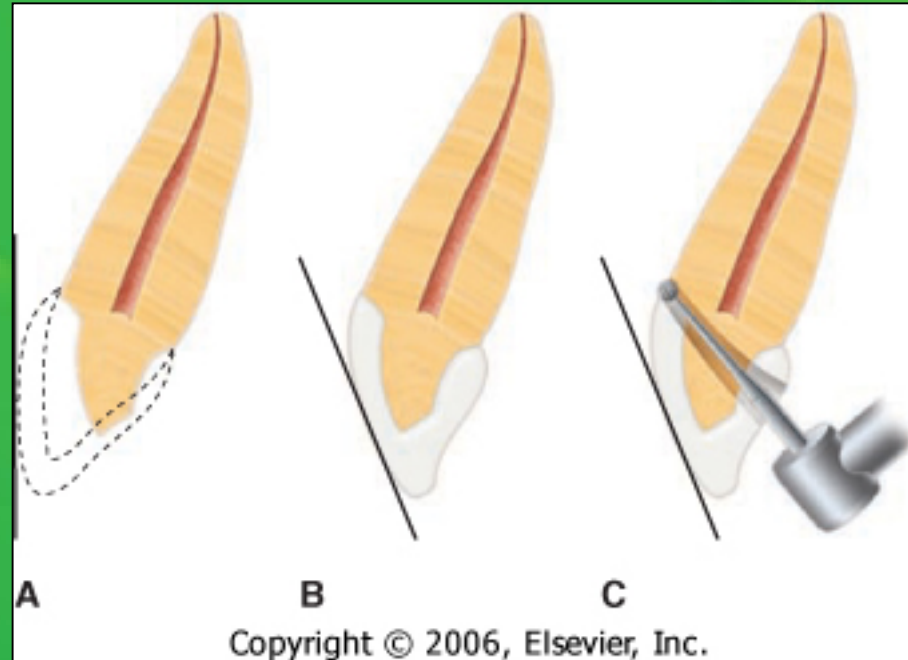
- **Gain access to the RCS, identify orifice**
- **Remove the pulp chamber roof and pulp horn**
- **Smooth, tapered preparation, SLA to RC coronal and middle third**
- **Different shapes for different teeth**
- **High Speed Round Bur (#2 or #4)**
- **Initial – Short Shank**
- **Deeper – Surgical Length**

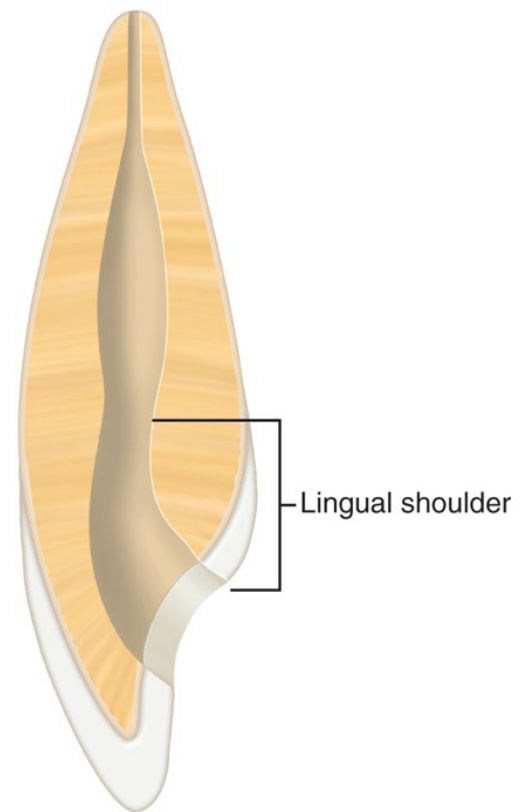
Maxillary Canine

- **Average length—26.5 mm**
- **Root curvature (most common to least common):
distal, straight, labial.**
- **Lingual shoulder is present**
- **Canal morphology is oval until apical $\frac{1}{3}$ where it
constricts and becomes more circular**
- **One canal- 100% according to Vertucci and
Pineda/Kuttler**

Maxillary Canine Access

- **Similar to maxillary incisors except:**
 - **Wider B/L than M/D**
 - **No pulp horn**
- **External access outline form is oval or slot shaped**
- **The mesiodistal width of the slot is determined by the mesiodistal width of the pulp chamber**
- **Incisal extension often approaches to within 2 to 3 mm of the incisal edge to allow for straight-line access**

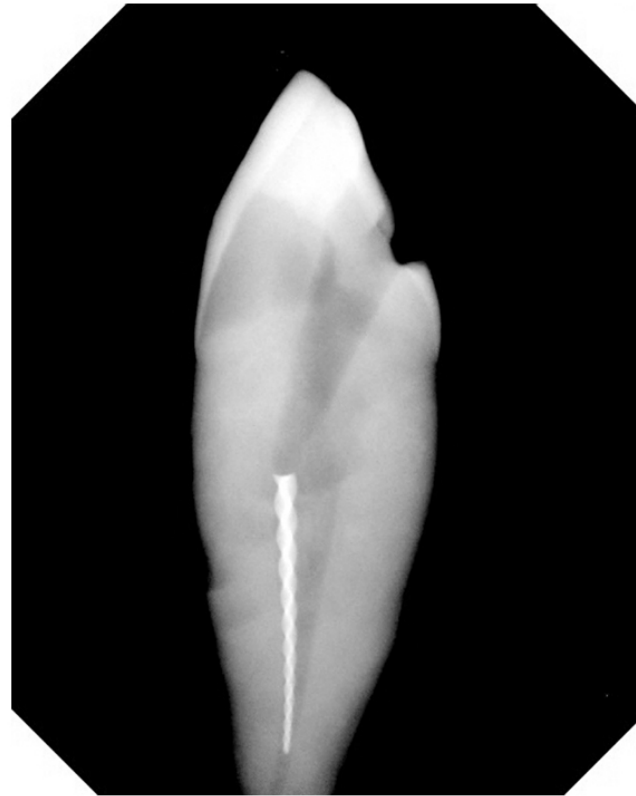






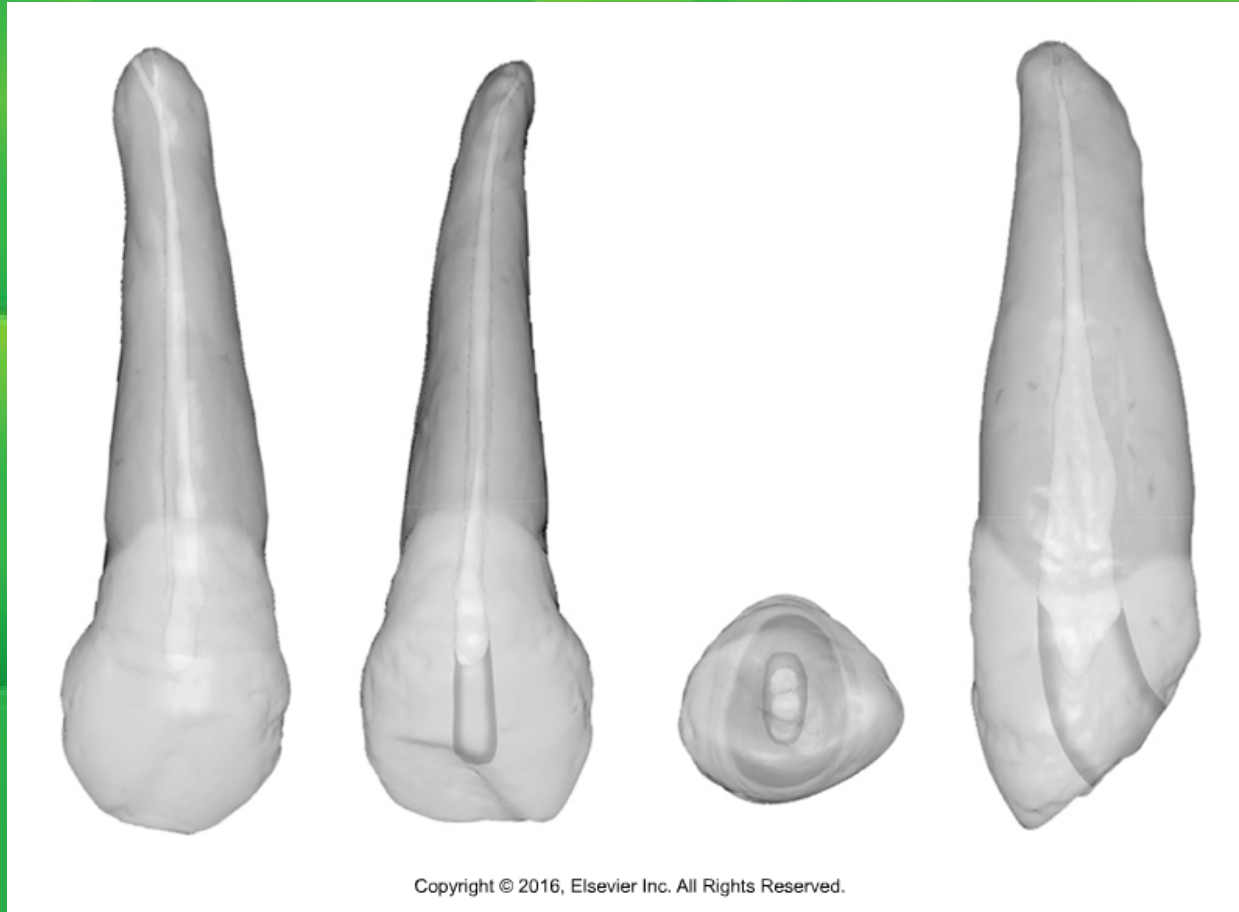
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SLA- How do I know when I have removed the lingual shoulder?

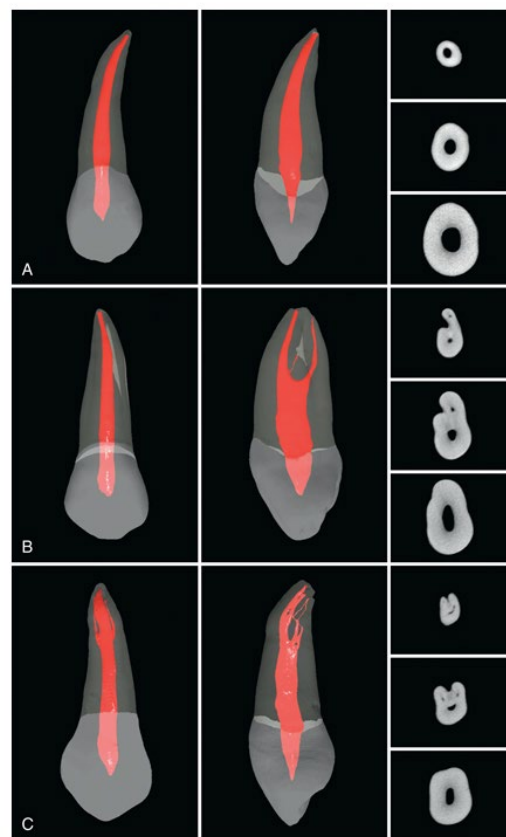


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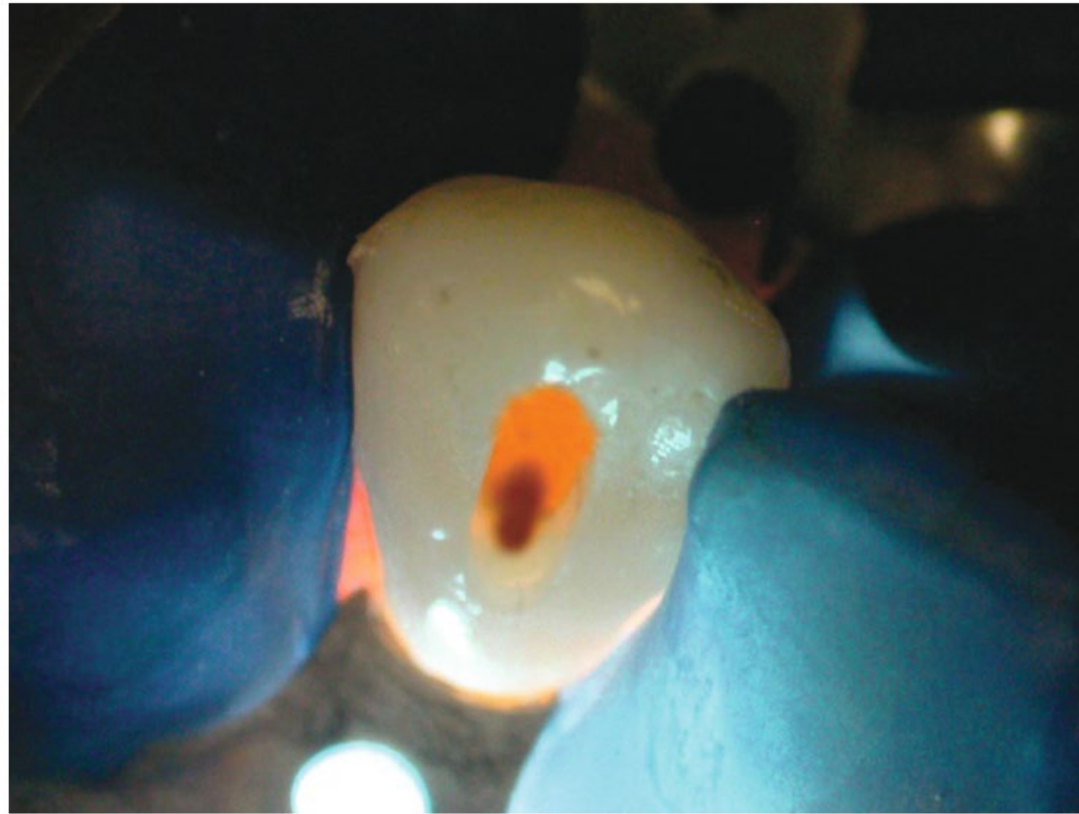
Maxillary Canine



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Maxillary Canine Access



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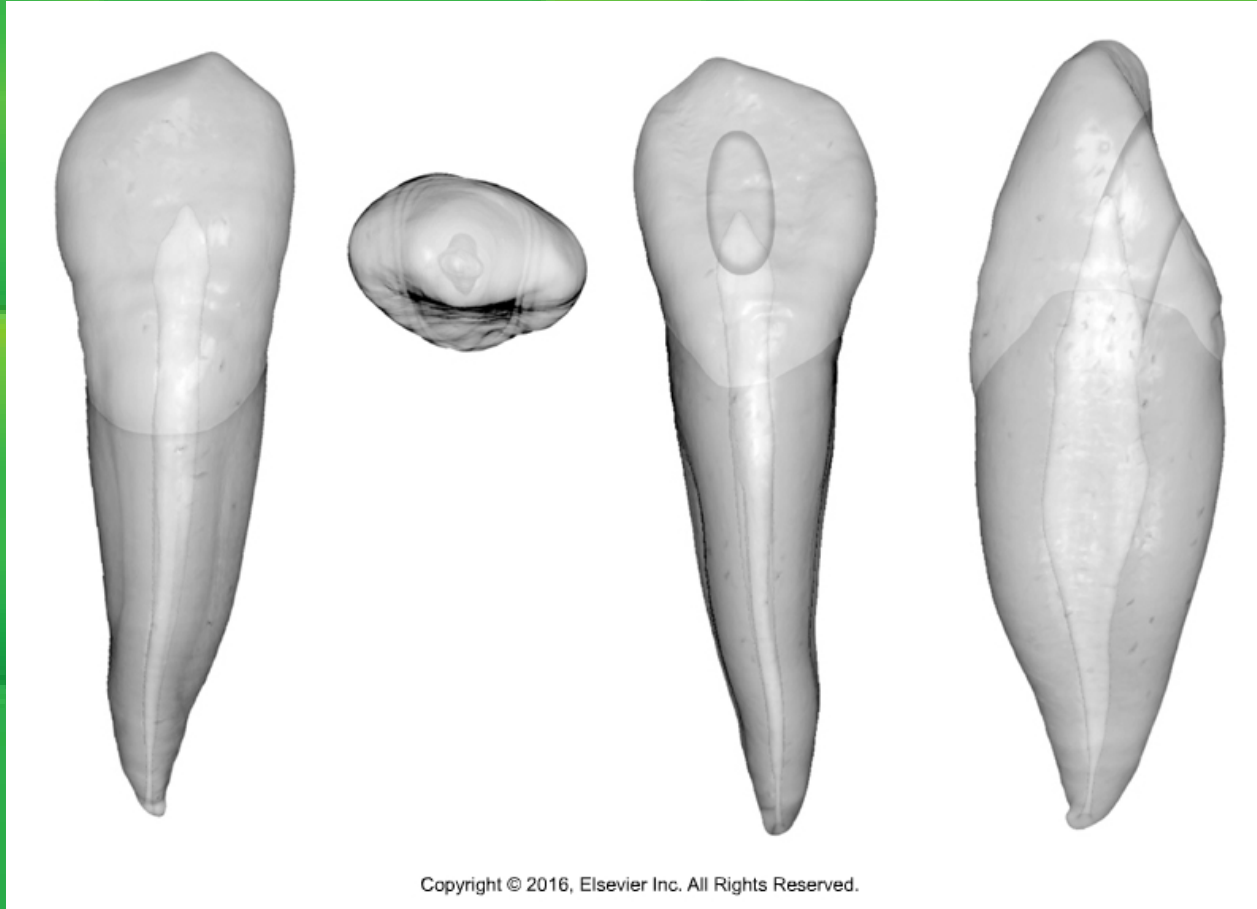
Mandibular Canine

- **Mandibular canine is very similar to that of the maxillary canine, except:**
 - **Dimensions are smaller**
 - **Root canal outlines are narrower in the mesiodistal dimension**
 - **Mandibular canine occasionally has two roots and two root canals located labially and lingually**
- **Usually 1 canal- 94% according to Vertucci 95% Pineda/Kuttler**
- **Canal is narrow mesiodistally but usually very broad buccolingually.**
- **A lingual shoulder must be removed to gain access to the lingual wall of the root canal or to the entrance of a second canal.**

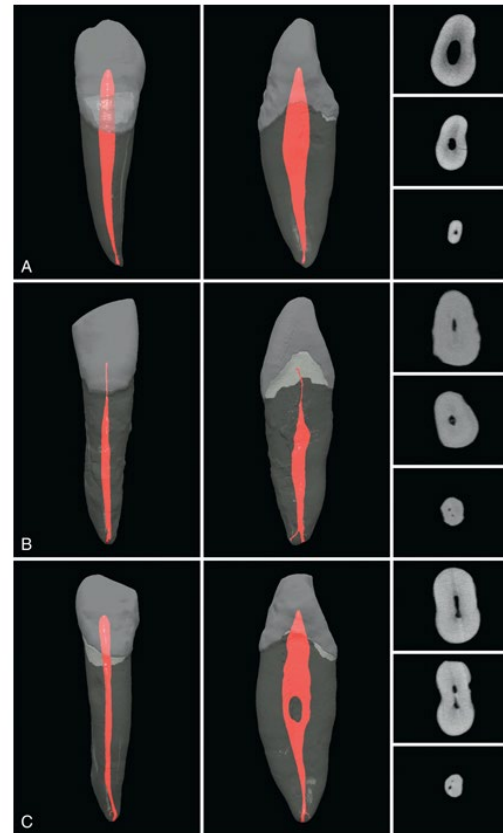
Mandibular Canine Access

- **External outline shape is oval or slot shaped**
- **Mesiodistal width corresponds to the mesiodistal width of the pulp chamber.**
- **Incisal extension can approach the incisal edge of the tooth for straight-line access**
- **Gingival extension must penetrate the cingulum to allow a search for a possible lingual canal.**

Mandibular Canine

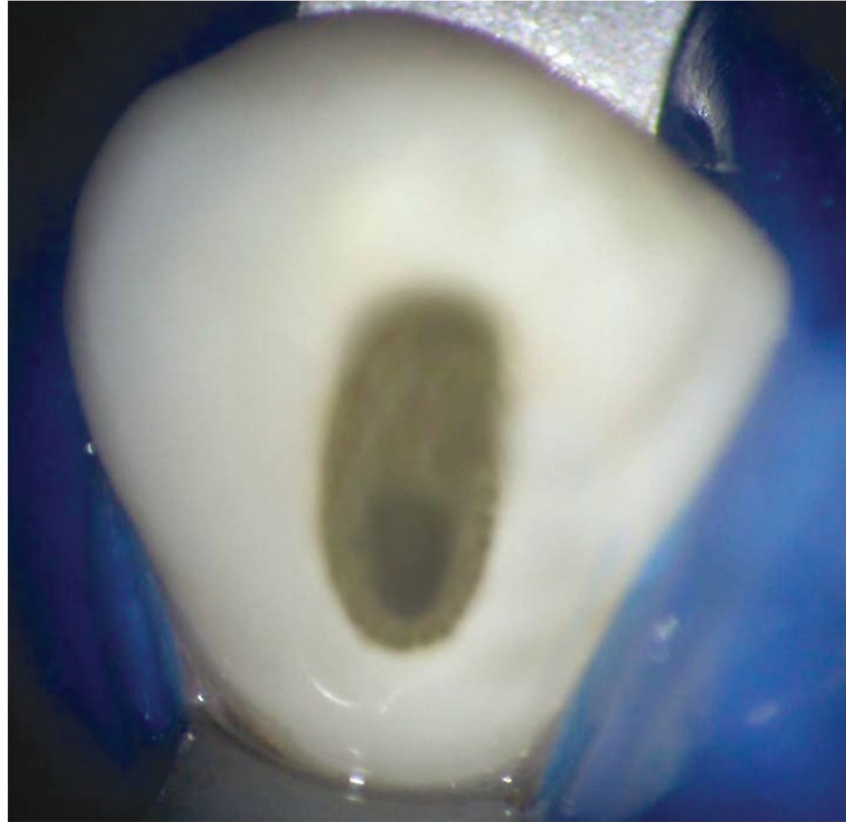


Mandibular Canine micro-CT



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Mandibular Canine Access



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MEASURE TWICE, CUT ONCE!!!

Laboratory Session

- **Access**
- **Working Length**
- **Clean and Shape**
- **Obturate**

Radiographs

- **Radiographs (use the sextant holder for preop, working length, master cone, and check films)**
- **Preoperative radiographs, B-L and M-D(mounted)**
- **Working length- off-angle if mandibular**
- **Master cone- angled if mandibular**
- **Check film- angled if mandibular**
- **Final (without RD), B-L and M-D views**

Instructor Check points

Please complete grading pg 27 and 82

- **Halfway access**
- **Access**
- **Working length film**
- **Apical gauging, master cone fit, plugger fit**
- **Master cone radiograph**
- **Check radiograph**
- **Final radiograph**
- **Swipe “endo working lengths” form**

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