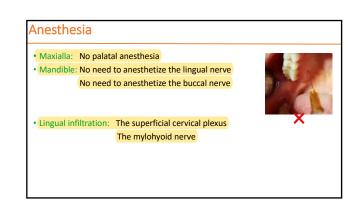
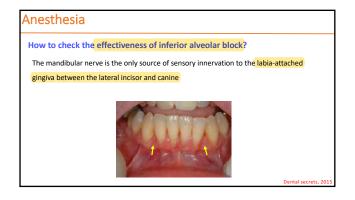
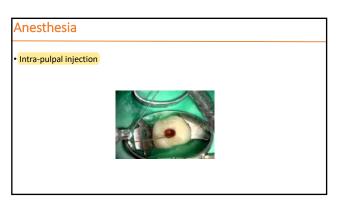


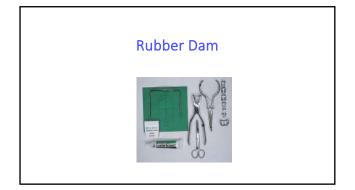


## Anesthesia Vital Vs non-vital Sever TTP First session Vs other session Time Direction of the needle Technique?



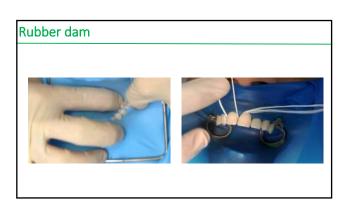




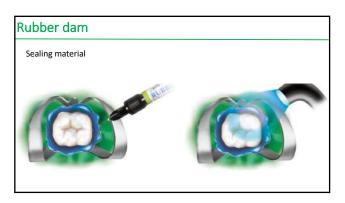




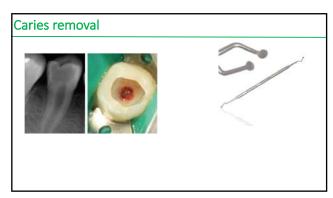




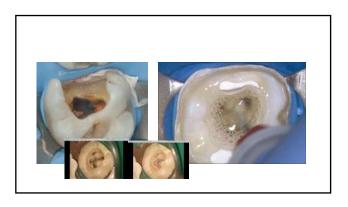


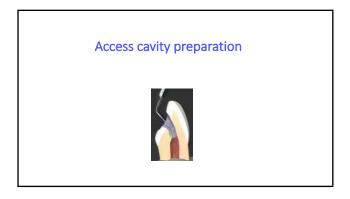


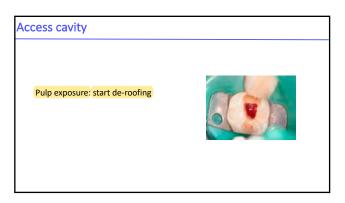


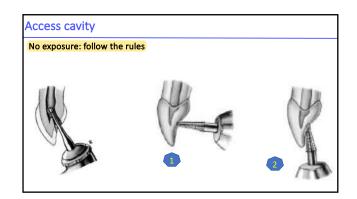


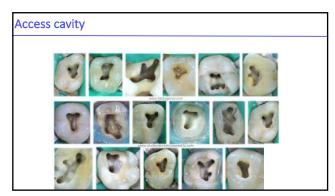


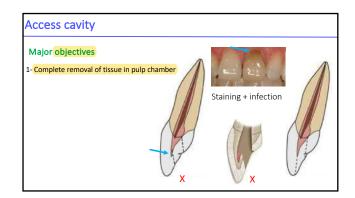




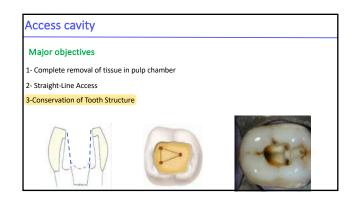




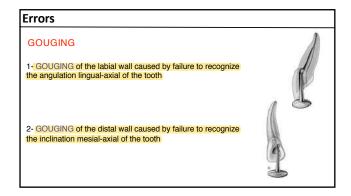


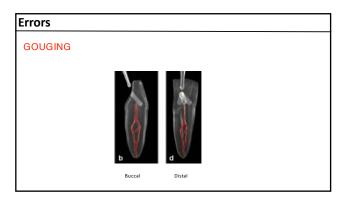


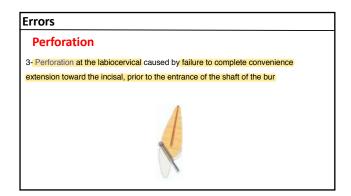


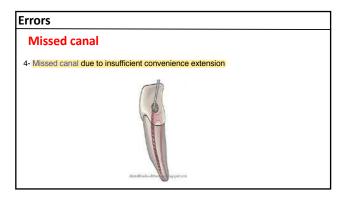


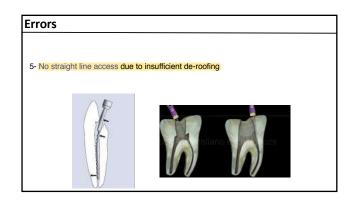
## ERRORS In access cavity preparation













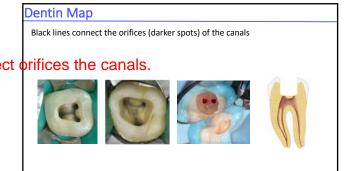


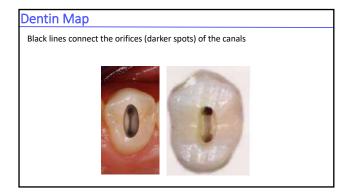
Insufficient de-roofing of pulp chamber

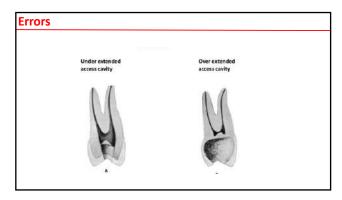
Make sure there are black lines that connect orifices the canals.







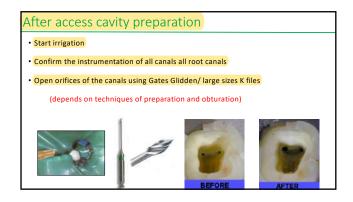


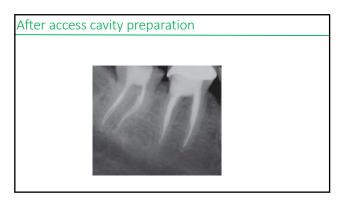


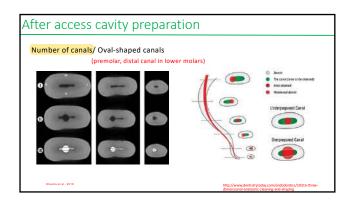


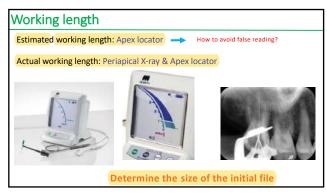
Root Canal Preparation

Bio-mechanichal preparation/ Cleaning and shaping

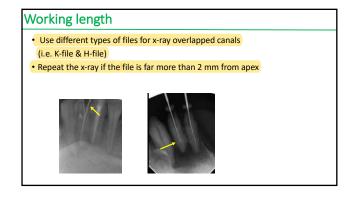




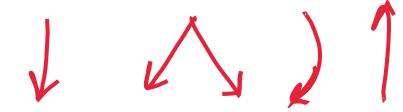


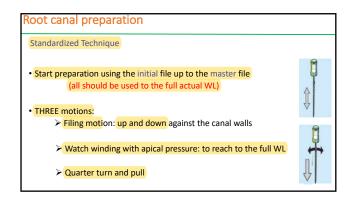


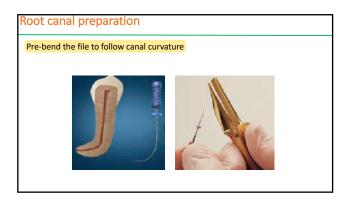
- To Avoid False Readings:
- 1) Make sure canals are dry
- 2) Use largest endodontic file possible
- 3) Pull file away from metal fillings or crowns
- 4) Charge Apex Locator

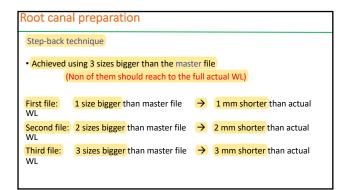


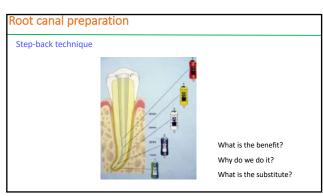












Benefits:

- Eliminates Coronal Interferences

- Easy Access

- Improved distribution of irrigant

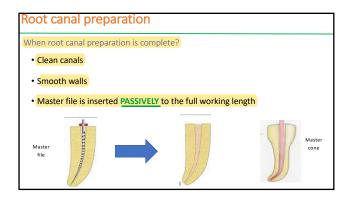
- Facilitates removal of caries

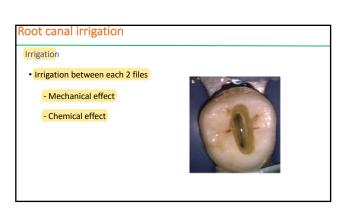
- Reduces change in WL during apical preparation - Create spaces for multiple cones

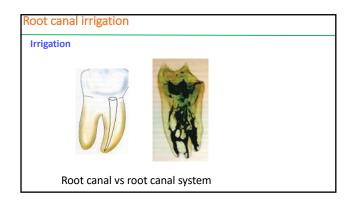
Why we do it?

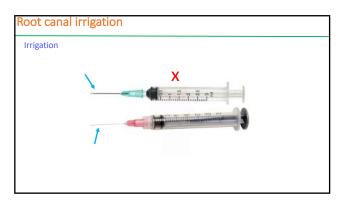
- Shape the apical 1/3 with small flexible files while larger stiffer files are used away from apex (no break)

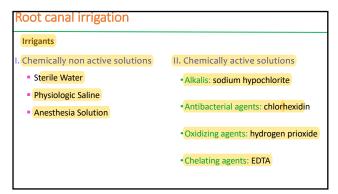
- Maintain proper resistance form



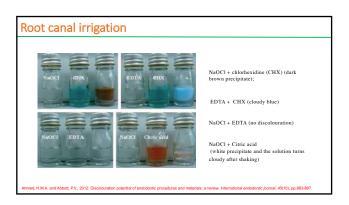




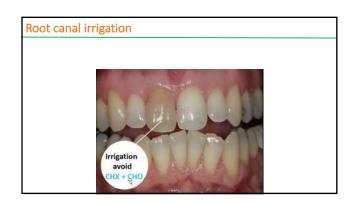




Sodium Hypochlorite is antimicrobial Hydrogen peroxide is anti-viral, anti-bacterial, anti-yeast EDTA is chelating agent which removes smear layer in canal.



DONT USE SODIUM HYPOCHLORITE WITH CHLORHEXIDINE







Protocol of final irrigation

## mear lave

amorphous and irregular particles that resulted from root canal instrumentation and covered all instrumented surfaces of the prepared root canals

- can harbor bacteria and their products
- decrease the dentin permeability to irrigants and medical dressing
- compromise the fluid-tight seal of canals after root filling

Protocol of final irrigation

\* (5.25% NaOCl + PUI (1 min)

\* 17% EDTA (pH 7.5) + PUI (1 min)

\* 5.25% NaOCl + PUI (1 min)

Lui et al., 2007

when NaOCl was used as final irrigants after demineralized agent, a remarkable erosion of dentin occurred with a view of irregular eroded dentinal tubules

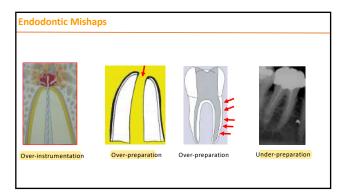
[It is not recommended to use NaOCl as a final irrigant after EDTA]

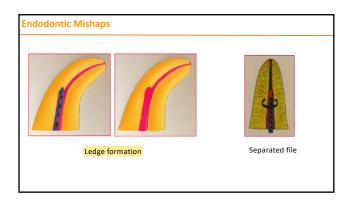
Mishaps (Accidents)
in Root canal Preparation

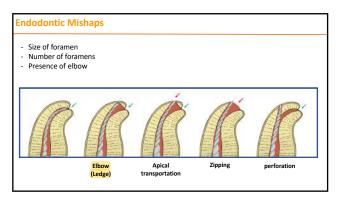
Endodontic Mishaps

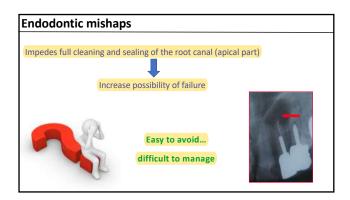
1- Loss of working length
blockage, Ledge formation, broken instrument
2- Deviation from the normal canal anatomy
elbow, zipping, apical transportation, perforation

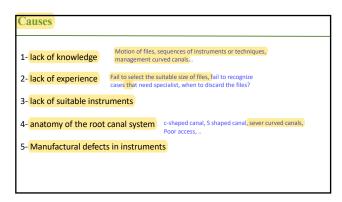
3- Inconvenient canal preparation
Over-instrumentation, Over-preparation, Under-preparation

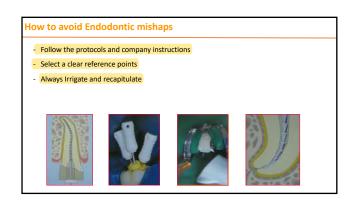


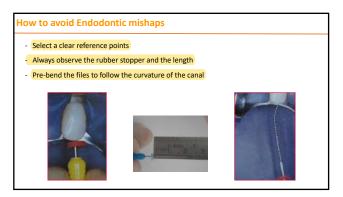


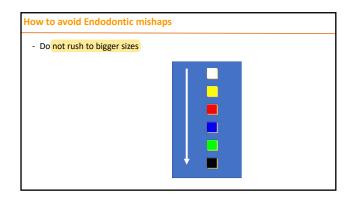


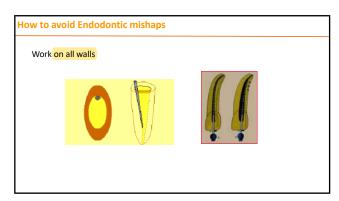


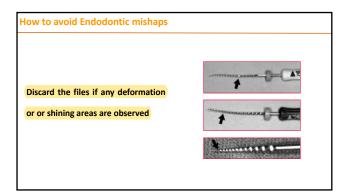




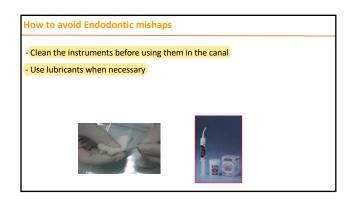












Root Canal Obturation

Technique: Lateral compacting

