PGE 189

39th IACDE National Conference

MTA APEXIFICATION APPROACHES: A PATHWAY TO ENHANCED OUTCOMES

APEXIFICATION: A method to induce development of the root apex of an immature pulpless tooth by formation of osteocementum / bone like tissue. (Cohen)

CASE 1: COLLAGEN SPONGE (COLOPLUG)

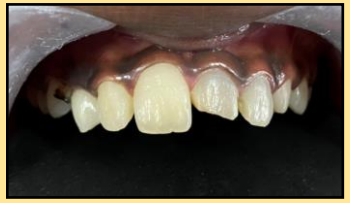
Chief complaint: Broken tooth in upper front tooth region for past 4 years.

Past dental history: History of trauma in upper front tooth 4 years earlier & history of root canal treatment irt 21 , 22.

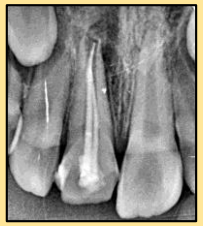
Investigation: IOPA - Incomplete root canal treatment IRT 21 22, periapical radiolucency and wide open apex with thin dentinal wall irt 21.

Diagnosis: Ellis IV(Non vital) fracture in relation to 21 with immature apex.

Treatment plan: Retreatment and MTA Apexification using collagen sponge (ColoPlug) IRT 21.

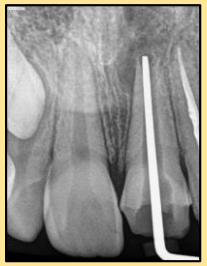


Pre operative intraoral image

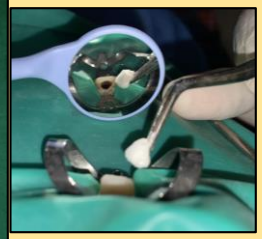


Pre operative radiograph

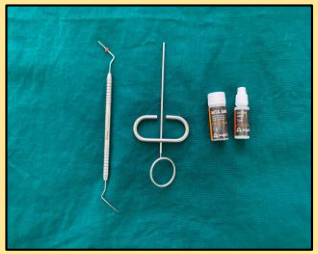
Access opening irt 21



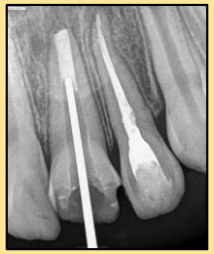
After confirming WL for MTA



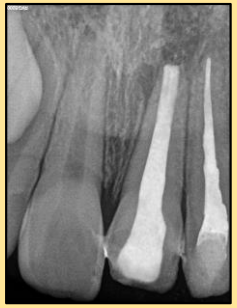
Collagen sponge (ColoPlug)



Armamentarium



MTA plug of 5mm



Post obturation radiograph

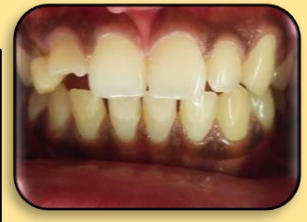
CASE 2: COLLAGEN MEMBRANE (COLOGIDE)

Chief complaint : Pain in upper front tooth region for past 2 years.

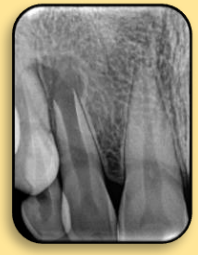
Investigation: IOPA–Periapical radiolucency and wide open apex with thin dentinal wall irt 12.

Diagnosis: Ellis IV(Non vital) fracture in relation to 12 with immature apex.

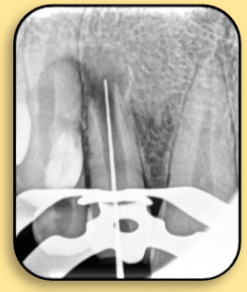
Treatment Plan :**MTA Apexification using collagen membrane (ColoGide) in relation to 12**



Pre operative intraoral image

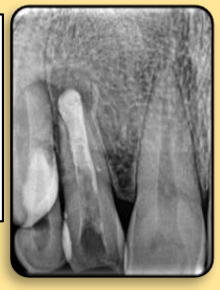


Pre operative radiograph

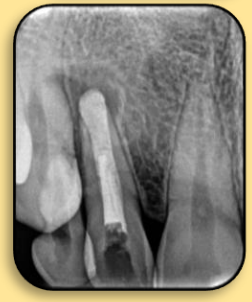


WL determination

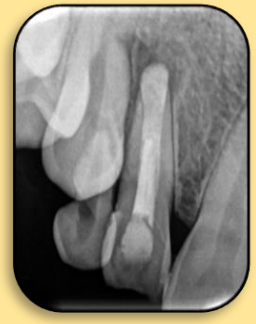
Collagen membrane (ColoGide)



MTA apexification



Immediate Post-op



3 months follow up