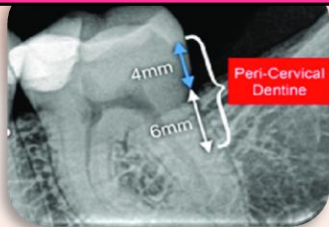


‘SAVING THE NECK’- The key role of Peri-cervical dentin.

AIM

To explore the concept of Peri-cervical dentin and its critical role in maintaining tooth strength and longevity after endodontic procedure

WHAT IS PERICERVICAL DENTIN?

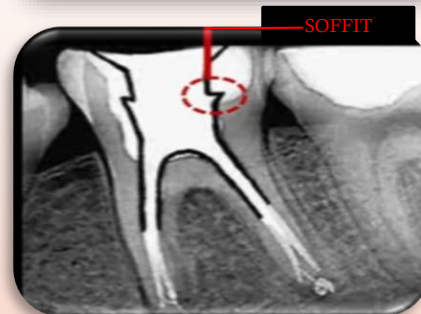


It is critical area roughly 4mm above & 6mm below the alveolar crest.

ADVANTAGES OF PRESERVING PCD

- Structural integrity & fracture resistance
- Better adhesion and retention
- Optimal ferrule effect
- Reduced need for extensive posts
- Prevents vertical & horizontal fractures

CONCEPT OF SOFFIT



A ‘soffit’ is an architectural term used to describe an extension of roof beyond the width of the building. The concept of soffit on root canal access is maintaining a portion of pulp chamber roof.

REFERENCES- In vitro evaluation of the strength of endodontically treated teeth after preservation of soffit and pericervical dentin Ashwini Gaikwad1,*, Varsha Pandit.
Impact of Pericervical Dentin on Fracture Resistance of Endodontically Treated Posterior Permanent Teeth: A Systematic Review and Meta-analysis Selvakumar Haridoss1, Mathanrajan Rajendran2, Kavitha Swaminathan3, Anbarasi4, Aruna Sharma

METHODS OF PRESERVING PERI-CERVICAL DENTIN



GUIDED ENDODONTICS



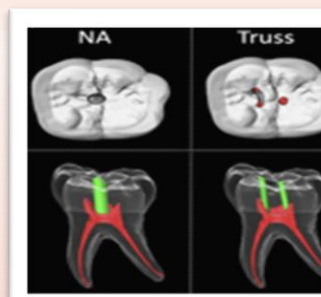
ADVANCED FILE SYSTEM



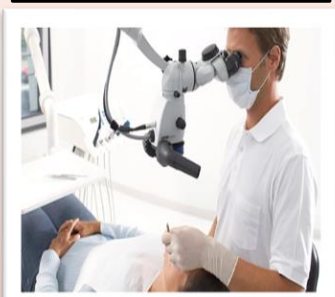
SMART ENDOMOTORS WITH TORQUE CONTROL



USING FIBER POSTS



ACCESS OPENING DESIGNS



MAGNIFICATION & ILLUMINATION

CONCLUSION: The teeth after preservation of peri-cervical dentin and soffit were found to be structurally reinforced as compared to the teeth with straight line access. Endodontic practices should consider adopting conservative approaches, such as reducing excessive dentin removal and utilizing instruments with less aggressive tapers, to maintain the protective function of PCD