

BIOCERAMIC MATERIALS IN ENDODONTICS: REVOLUTIONIZING ROOT CANAL THERAPY



Bioceramic materials are biocompatible, non-toxic materials used in endodontics, particularly in Root Canal Procedures.



PROPERTIES:

- Biocompatibility
- Bioactivity
- Hydrophilicity
- Dimensional Stability
- Antibacterial Properties
- Osteoconductivity



ADVANTAGES:

- Enhanced Healing
- High Success Rate
- Minimal Irritation
- Ease of Use
- Improved Sealability
- Low Microleakage



BIOCERAMICS USED IN ENDODONTICS:



ENDO-CPM SEALER



ENDOSEQUENCE BC SEALER



MTA



BIODENTINE



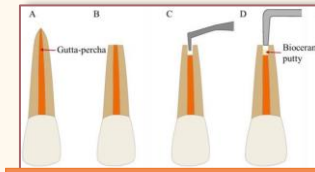
BIOAGGREGATE



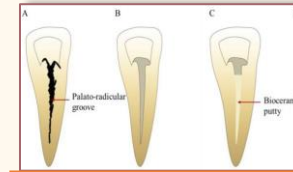
BIOROOT RCS



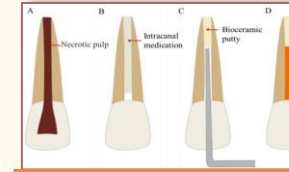
APPLICATIONS:



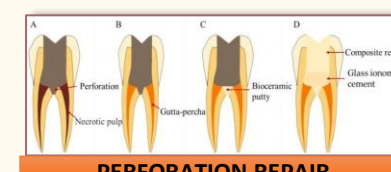
ENDODONTIC MICROSURGERY



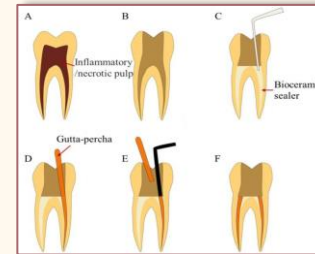
RADICULAR GROOVE REPAIR



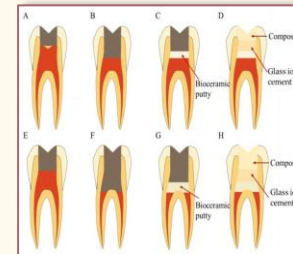
ORTHOGRADE FILLING



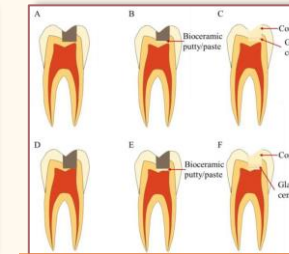
PERFORATION REPAIR



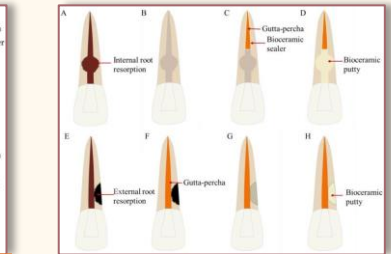
ROOT CANAL THERAPY



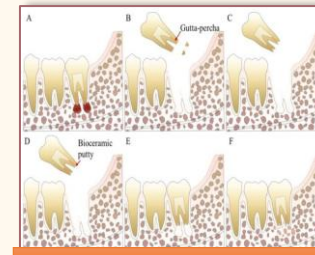
PULPOTOMY



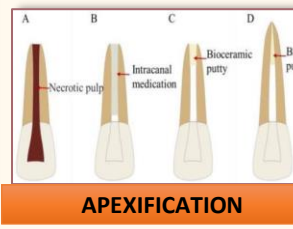
PULP CAPPING



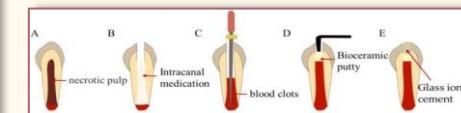
ROOT RESORPTION REPAIR



INTENTIONAL REPLANTATION



APEXIFICATION



REGENERATIVE ENDODONTIC TREATMENT



CONCLUSION:

Potent antibacterial activity, absolute biocompatibility, good osseointegration, ability to achieve excellent hermetic seal in constantly wet environment, formation of chemical bond with dentin, insolubility in tissue fluids, expansion during time of set, very good radiopacity, easy handling are the features that make bioceramic-based materials an up-to-date alternative to other materials.

