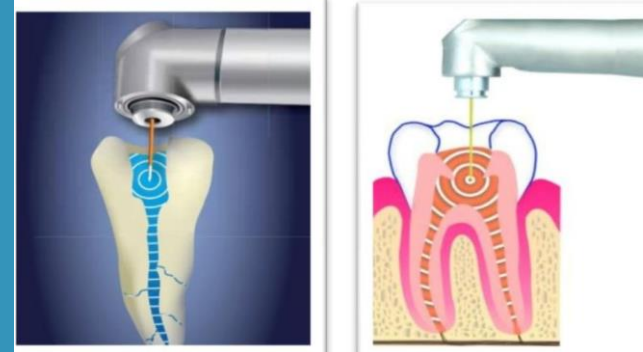
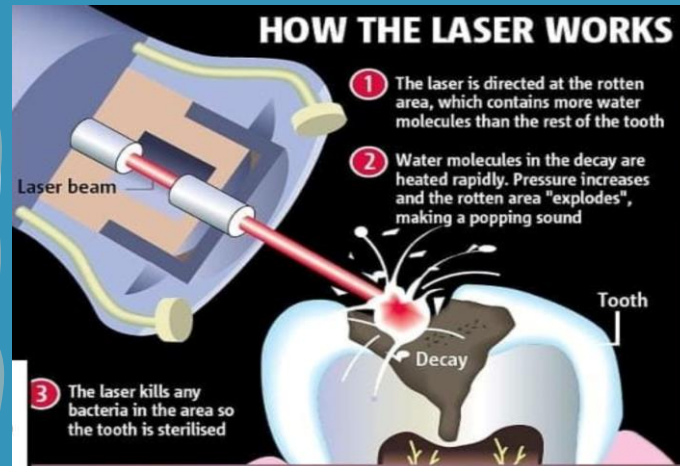


LASER-LED ENDODONTICS: A NEW ERA IN DENTAL CARE

INTRODUCTION – VARIOUS LASER SYSTEMS INCLUDING DIODE, ND: YAG, ER: YAG ARE USED IN ROOT CANAL TREATMENT FOR APPLICATIONS SUCH AS PULP DIAGNOSIS, BROKEN FILE RETRIEVAL, ROOT CANAL DISINFECTION.

LASERS USED IN ENDODONTICS:

1. Er:YAG LASER
2. ER,Cr:YSGG LASER
3. Nd:YAG LASER
4. Nd:YAP LASER
5. CO₂ LASER
6. DIODE LASER



LASER ACTIVATED IRRIGATION

ADVANTAGES

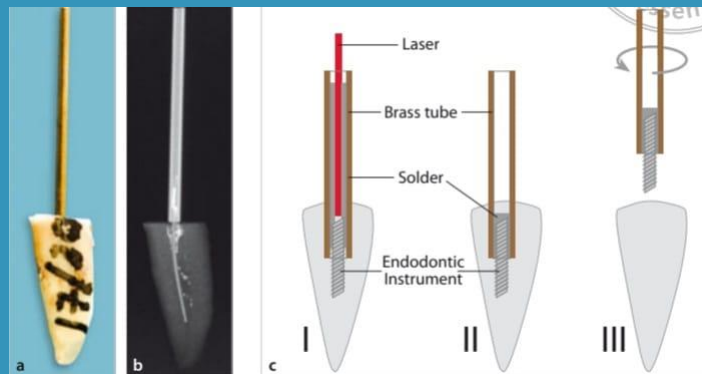
1. ENHANCED DISINFECTION
2. ROOT CANAL SHAPING
3. MINIMIZED DISCOMFORT AND PAIN
4. FIBER POST SURFACE TREATMENT
5. FILLING MATERIALS REMOVAL

DISADVANTAGES

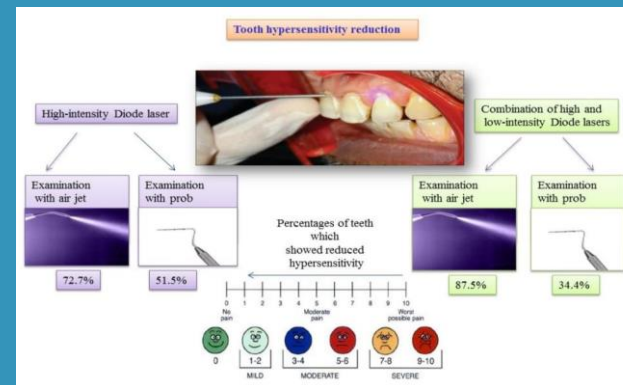
1. HIGH COST
2. TECHNICAL COMPLEXITY
3. LIMITED ACCESS IN NARROW OR CURVED CANALS
4. LIMITED EVIDENCE OF SUPERIOR OUTCOMES



ACCESS OPENING



BROKEN FILE RETRIEVAL



HYPERSENSITIVITY REDUCTION

CONCLUSION – THE PURPOSE OF THIS PRESENTATION IS TO SUMMERIZE HOW LASERS IN ENDODONTICS OFFER PROMISING ADVANCEMENT BY IMPROVING TREATMENT OUTCOME