

“DIVE DEEP TO CLEAN: ADVANCEMENTS IN ENDODONTIC IRRIGATION SYSTEMS”

IRRIGANTS ARE USED IN THE ROOT CANAL TO DISSOLVE TISSUE REMNANTS, ELIMINATE MICROORGANISMS, AND THOROUGHLY CLEAN THE CANAL WITHOUT ANY NEGATIVE EFFECTS. THESE IRRIGANTS REQUIRE ACTIVATION SYSTEMS TO ENSURE PENETRATION INTO COMPLEX AREAS, BETTER DEBRIS AND BACTERIA REMOVAL.

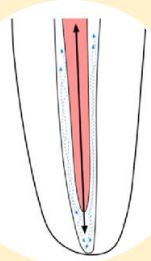
MANUAL ASSISTED TECHNIQUES



**SYRINGE/
NEEDLE**



BRUSHES



**MANUAL
IRRIGATION
USING GUTTA
PERCHA**

MACHINE ASSISTED TECHNIQUES



**RINS ENDO DEVICE
HYDRODYNAMIC
PRESSURE
ACTIVATION**



**IVAC
APICAL
NEGATIVE
PRESSURE
SYSTEM**

**PRESSURE
ALTERATION
DEVICES**



**GENTLE WAVE IRRIGATION SYSTEM
MULTISONIC ULTRACLEANING DEVICE**

LASERS

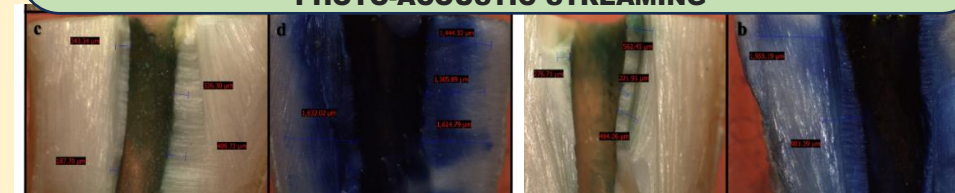
THE Er : YAG LASERS USES A COMBINATION OF SUPER SHORT PULSE IRRIGATION ALSO KNOWN AS PHOTONINDUCED PHOTO-ACOUSTIC STREAMING WITH SHOCK- WAVE ENHANCED EMISSION PHOTO-ACOUSTIC STREAMING



**OZONE- BASED DELIVERY
IRRIGATION SYSTEM**



**PHOTOACTIVATED
DISINFECTION**



**PIPS WITH
INDOCYANINE
DYE**

**PIPS WITH
METHYLENE
DYE**

**SWEEPS WITH
INDOCYANINE
DYE**

**SWEEPS WITH
METHYLENE
DYE**