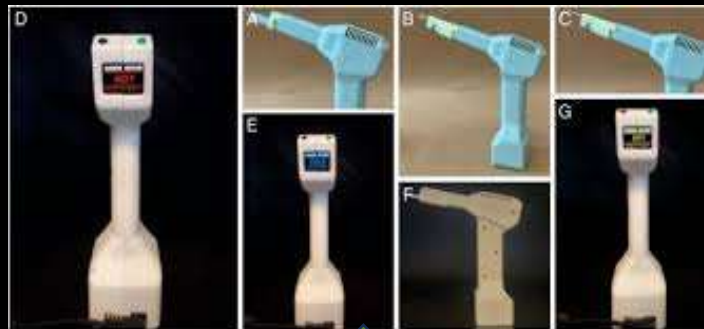


MODERN DIAGNOSTICS FOR TRADITIONAL DISEASES

Traditional methods



Pulp sensitivity tester with transilluminator



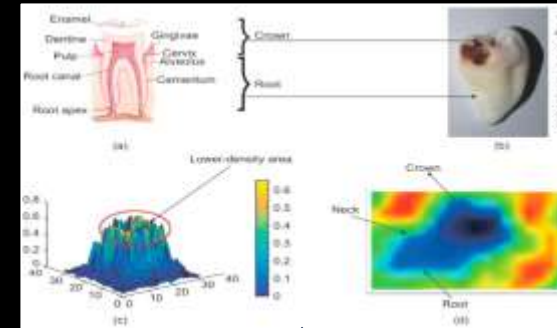
Four components in single device i.e. cold, heat, EPT and transillumination.

Spectrophotometry



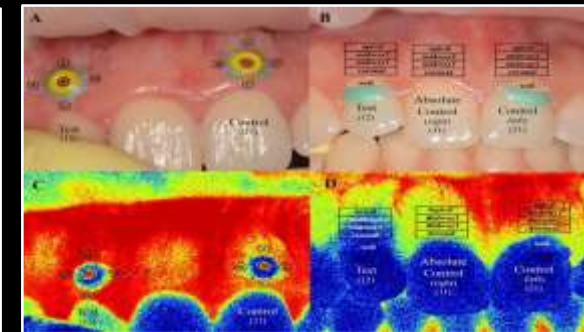
Modern methods

Terahertz



Frequency ranges from 10^{11} to 10^{13} Hz
Non ionizing radiation

Speckle imaging



Coherent light interference which generates speckles
Random temporal patterns due to changing blood velocity

MRI



Continuous wave
Measures oxygenation changes in capillaries rather than relying on blood flow

Limited to dental soft tissues
SWIFT MRI has great application in endodontics

Conclusion-
Measuring pulpal blood flow provides an objective way to assess pulp vitality.
But none of these devices are available in day to day clinical practice creating challenges to the clinician for assessing pulp vitality.