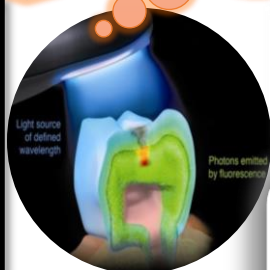
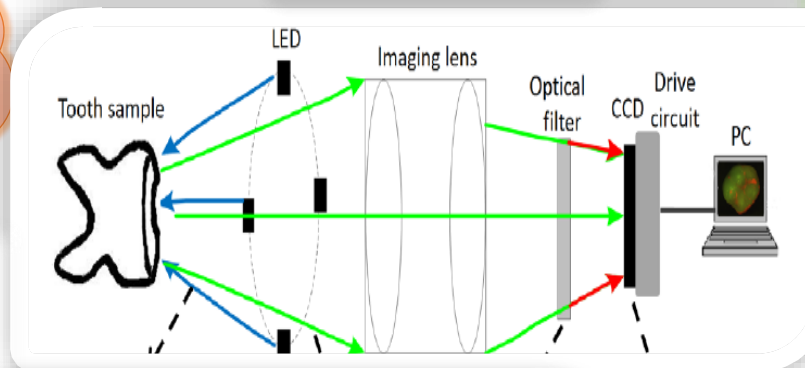


FLUORESCENCE- It is the absorption of light by a substance and its emission at the same time at a longer wavelength

- ❖ **Factors causing fluorescence in normal tooth-**
- ✓ Collagen cross-linkage
 - ✓ Organic matter
 - ✓ Tyrosine and tryptophan



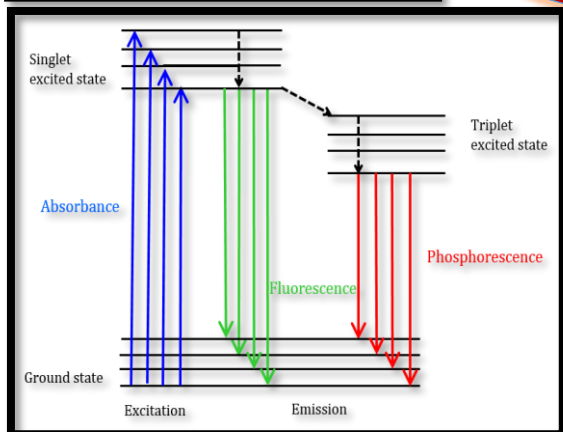
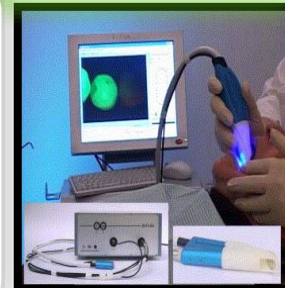
MECHANISM



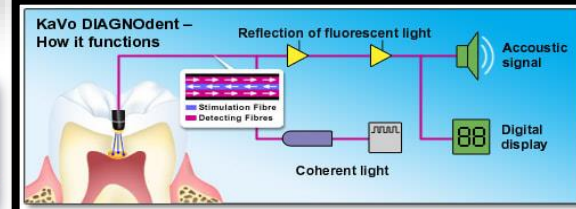
❖ Quantitative Laser Fluorescence

Diagnosing improper fluorescence by-

❖ DIAGNOdent



SIGNIFICANCE OF LASER-INDUCED FLUORESCENCE IN DETECTION OF DEVELOPMENTAL DEFECTS OF TEETH



ENAMEL DEVELOPMENTAL DEFECTS

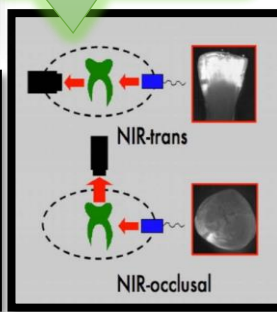


Enamel Hypo-mineralization

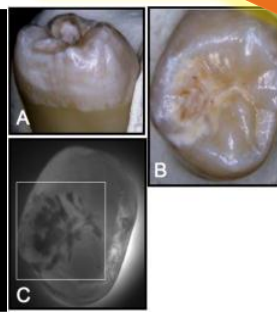
Amelogenesis Imperfecta



❖ Near-Infrared (NIR) Imaging



❖ Polarization-sensitive optical coherence tomography (PS-OCT)



Various images showing defects under fluorescence

