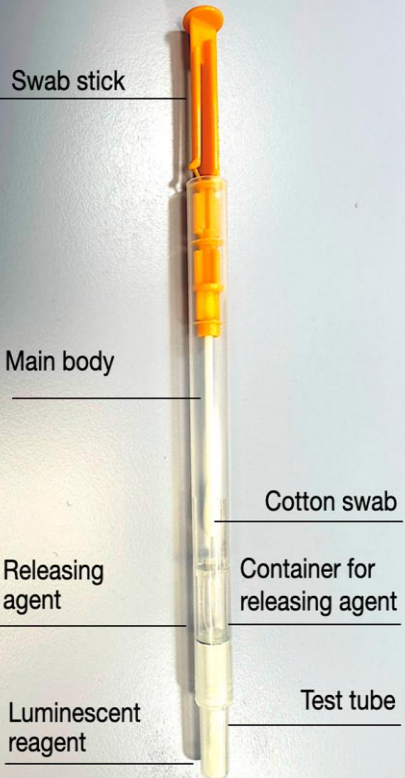


ENDOCATOR: Seeing Beyond the Surface

INTRODUCTION- Rapid, chair-side device providing real-time assessment of organic debris in the canals

PRINCIPLE:-

Works on Enzyme Cycling Method Detects ATP+ADP+AMP levels in root canals.



COMPONENTS:-

- ENDOTESTER- Swab+Reagent
- ENDOCATOR- Luminometer

2 SCALES:-

- ES(Endoscore)-** Readings from 0-100
 0-30= Clean canals
 31-60=Contaminated canals
 61-100=Dirty Canals
- RLU(Relative Light Unit) -**
 Readings from 0-6,00,000
 More precise and accurate

ADVANTAGES:-

- Rapid chair-side tool
- Easy to use, not technique sensitive
- Gives objective measurements
- Sensitive and precise
- Can be integrated in both clinical practice and research

DISADVANTAGES:-

- Risk of Cross-contamination
- No sufficient amount of evidence that luminescence is only due to ATP levels.
- Qualitative microbial analysis not provided.
- No correlation between the 2 scales provided.

FUTURE PROSPECTS:-

- Further studies are needed to determine its clinical feasibility.
- Proposed scales need to validated.

References:

