

THE ROOT SCRUTINY

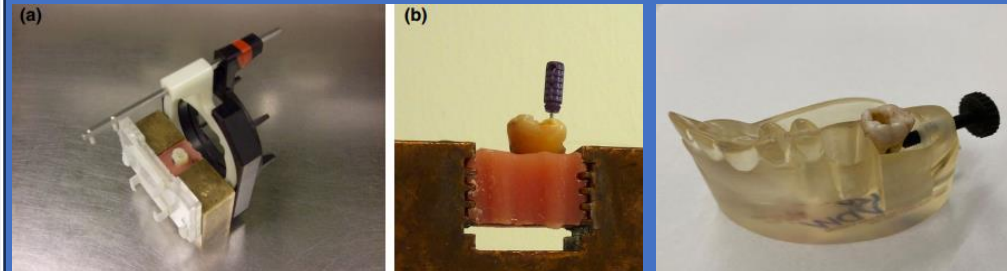
Assessing root canal preparation: A comprehensive research methodology

Experimental models and substrates



Simulated canals 3d root canal system 3d printed teeth Extracted teeth

Experimental settings



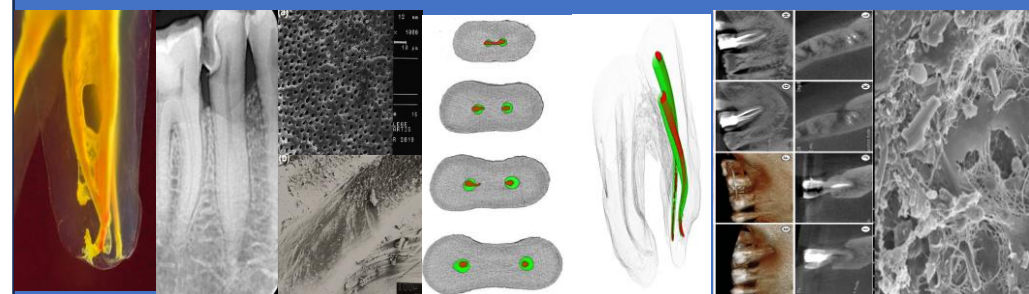
Muffle models

Training model

CLINICAL STUDIES

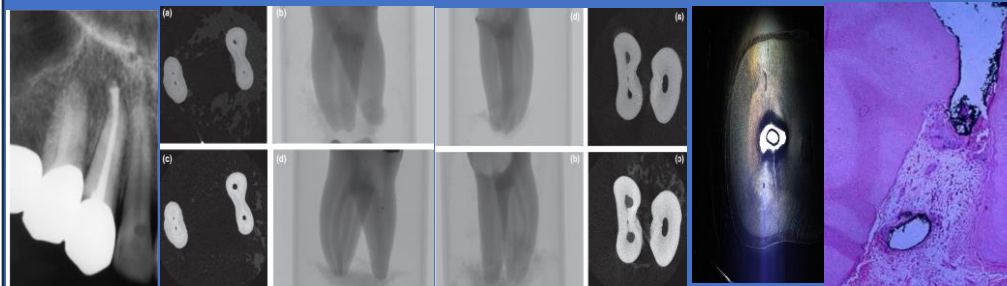
- Success rate
- Quality of life
- Post operative pain

Assessment Methods



Cleared tooth Radiograph SEM Micro-CT CBCT Microbiology

Research topics



Transportation

SMI

Dentinal cracks

Histological studies

Conclusion

Many tools & methods are available for studying root canal preparation, there is critical need for research that connects laboratory findings with clinical outcomes