



Novel Endodontic Technologies, the New Era of Endodontics World

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The science of clinical dentistry has rapidly developed in recent years. Innovative techniques have changed conventional treatment methods and dental materials to yield better outcomes. The branch of endodontics has experienced major technological developments such as digital radiography, surgical microscopes, electronic apex locators, ultrasonic endodontic tips, rotary nickel titanium (NiTi) instruments and new obturation systems. These innovative developments have advanced the technical steps of root canal treatment procedures and better clinical outcome. Major advancements in digital radiography resulted in decreased radiation exposure, computer archiving, and immediate development.

Similarly, the operating microscopes (OM) have changed both nonsurgical and surgical endodontics remarkably. For instance, OM facilitates management of the straight portion of the root canal systems easily even in the most apical section through nonsurgical endodontics. Modern electronic apex locators are capable of determining the working length of a root canal with high precision and accuracy. Ultrasonic endodontic tips are useful for endodontic procedures including access cavity preparation, cleaning and shaping, obturation, removal of the intracanal materials and obstructions, and endodontic surgery. Rotary NiTi instrumentation reduces working time and procedural accidents hence, improves the quality of root canal treatment.

Novel obturation systems have improved the quality of root canal obturation and the outcome of root canal therapy. Although novel technologies have improved the quality and efficiency of root canal treatments, dental general practitioners lack continuing professional training and remain hesitant to use these techniques.

It can be hoped that novel technologies and advances will gain popularity in coming years to improve the quality of root canal treatment and endodontic practice.

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