

## Minimally Invasive Endodontics A Promising Future Concept

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### Minimally Invasive Endodontics A Promising

Minimally invasive endodontics (MIE) is a concept of maximum preserve the healthy coronal, cervical and radicular tooth structure during the endodontic treatment. For success, the dentist must aware between conservation and elimination of tooth structure during endodontic procedure to fulfill the endodontic goals.

### Minimally Invasive Endodontics a Promising Future Concept ...

Abstract. Minimally invasive endodontics (MIE) aims to preserve the maximum of tooth structure during root canal therapy. In the last 15 years there has been rapid progress and development in endodontics, making treatment procedures safer, more accurate, and more efficient. Meanwhile, reproducible results can be achieved even in difficult root canal morphologies with severe or double curvatures.

### Minimally Invasive Endodontics - PubMed

Minimally invasive access to the root canal system is described, and detailed attention is devoted to the application of novel strategies in root canal instrumentation and disinfection, root canal filling, coronal restoration, retreatment, and endodontic surgery. Minimally invasive alternatives to complete endodontic treatment, such as vital pulp therapies, and to dental extraction and implant placement, including surgical extrusion, intentional replantation, and tooth autotransplantation ...

### Minimally Invasive Approaches in Endodontic Practice

With advancement in research new insights in pulp biology have developed overtime, a clinical research on vital pulp therapy now provides options for enveloping new biologically driven treatment protocols<sup>3</sup>. Minimally invasive endodontics treatment modalities include two major rewards: firstly, preservation and maintaining physiological and defensive functions; secondly, lesser removal of hard tissue

### Minimally Invasive Endodontics - A Review

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### Minimally Invasive Endodontics A Promising Future Concept ...

The question regarding the philosophy of minimally invasive technique and technology must be in the context of the rationale for endodontics: Endodontics has a 100% capacity for repair if the root canal system can be cleaned and sealed either nonsurgically or surgically. 7 Do current minimally invasive thinking, techniques, and technologies produce more or less predictably successful endodontic outcomes?

### Minimally Invasive Endodontics: Finding the Right Balance ...

Minimally invasive cavity access is an alternative approach to traditional endodontic treatment [6, 7], which emphasizes a greater preservation of healthy dental tissue during the cavity opening ...

### (PDF) Minimally Invasive Endodontics: Challenging ...

Minimally invasive endodontics - 'Endolight' Traditionally, it was thought that there is a poor relationship between clinical signs and symptoms and the histological state of the pulp in mature teeth (Seltzer & Bender 1963, Garfunkel et al. 1973, Dummer et al.

### Minimally Invasive Endodontics: a new diagnostic system ...

of minimally invasive endodontics (MIE) has ignited a discussion between proponents of well-shaped canals and those who advocate more minimally prepared canals. Although well intended, this shaping shift, alone, will never fulfill the biological objectives for success. To forward the concept of MIE will

### ENDODONTIC TRIAD FOR SUCCESS: T MINIMALLY INVASIVE TECHNOLOGY

The evolving landscape of modern endodontics is focused on pushing the boundaries of success rates further than the profession's long-standing data on tooth survival. Although successful treatment will hopefully last a lifetime, actual success rates are reported to range between 82%<sup>1</sup> and 97%.<sup>2</sup> With the goal of improved tooth survival, the future of endodontics is heading toward more minimally invasive, restorative-driven root canal therapy.

### Activated Irrigation in Endodontics - Decisions in Dentistry

The concept of minimally invasive endodontics calls for the treatment and prevention of pulpal pathoses and apical periodontitis, while causing the least amount of change to the dental hard tissues. This preserves the strength and function of the endodontically treated tooth with the intent that it will last the patient's lifetime. These skills include working with new instruments and irrigants for cleaning the system; utilising advanced imaging modalities and computer software for ...

### Minimally Invasive Endodontics - SlideShare

Objective: This study was to evaluate the potential of Erbium:Yttrium Aluminum Garnet laser-activated sodium hypochlorite irrigation (Er:YAG + NaOCl) for minimally invasive endodontics (MIE). Background data: Er:YAG laser irradiation can dramatically enhance the penetration of NaOCl, which may be a promising protocol for MIE. Methods: Extracted human teeth were contaminated with Enterococcus ...

### Erbium:Yttrium Aluminum Garnet Laser-Activated Sodium ...

Minimally Invasive Dentistry contain lots of practice done by dentists to minimize patient distress and damage. Minimally Invasive Dentistry has few benefits which are mentioned below: Minimally Invasive Dentistry can remove 80 percent of dental interventions on the large scale.

### What Is Minimally Invasive Dentistry? | Benefits of ...

Objective: This study was to evaluate the potential of Erbium:Yttrium Aluminum Garnet laser-activated sodium hypochlorite irrigation (Er:YAG + NaOCl) for minimally invasive endodontics (MIE). Background data: Er:YAG laser irradiation can dramatically enhance the penetration of NaOCl, which may be a promising protocol for MIE. Methods: Extracted human teeth were contaminated with Enterococcus ...

### Erbium:Yttrium Aluminum Garnet Laser-Activated Sodium ...

Endodontics is, in reality, a restorativelydriven procedure; and minimally invasive and biomimetic principles will require different skills and materials to shape, pack and restore these non- round canal systems.

### Minimally Invasive and Biomimetic Endodontics: The final ...

Minimally invasive dental procedures are beneficial from a patient's point of view as well. ... Traditionally, "conservative dentistry" curricula included endodontics and all types of restorations on single teeth. ... Seventy-four results showed that HA-ionomers are promising filling for dental materials and the incorporation of HA ...

### Conservative Dentistry - an overview | ScienceDirect Topics

This article describes an endodontic treatment technique performed through a new minimally invasive approach that leads to no tooth damage at the incisal edge and uses cone-beam computed tomographic (CBCT) imaging and 3-dimensional guides.

### A New Approach for Minimally Invasive Access to Severely ...

More advanced treatment options in endodontics (for example, magnification and more flexible nickel-titanium instrumentation) have therefore also shifted paradigms to a minimally invasive approach in both access cavity preparation as well as shaping of root canals in order to preserve dentin (Gluskin, Peters, and Peters, 2014).

### Minimally Invasive Endodontics using a new single-file ...

WaterLase iPlus is indicated for cleaning and disinfection of the root canal after endodontic instrumentation. Be trickier than a root canal. Adopt lasers into your practice for superior disinfection, minimally invasive access, greater efficacy, and more promising long-term results. Your patients will tell other patients.