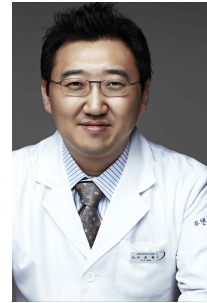


Title: Recent trends in materials used in root canal treatment

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Abstract

The aim of this presentation is to provide an overview of recent development in materials used in root canal treatment. A number of root canal instruments and techniques have been developed for safe, comfortable use, and following anatomical forms. Recently released nickel-titanium rotary files (NiTi files) are characterized by proprietary heat-treatment in order to minimize instrument fracture. Round preparation shape and untouched areas have been subjects of concern to clinicians when shaping root canals by NiTi files, especially in oval-shaped canals. Several instruments with enhanced intra-canal adaptability were developed, along with minimally invasive preparation concept in root canal treatment. Recent directions in root canal shaping is trying to remove as much bacteria and its byproduct as possible while preserving intact dentin, which necessitates root canal irrigation with disinfectant. And prospects of bioactive materials used for root canal obturation will be discussed.

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