

Endodontics

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Endodontics, from the Greek endo and odons, is a specialist sub-field of dentistry that deals with the tooth pulp and the tissues surrounding the root of a tooth. The pulp can become diseased or injured, and is often unable to repair itself; if it dies, endodontic treatment is required. Endodontists are dentists who have specialized in this field; qualification as an endodontist typically requires an additional 2-3 years of training following dental school. Many endodontic residents do original research and earn a Master's degree as well as a speciality certificate. They specialize and limit their practice to root canal therapy and root canal surgery, and use their special training and experience in treating difficult cases, such as teeth with narrow or blocked canals, or unusual anatomy. Endodontists may use advanced technology, such as operating microscopes, ultrasonics and digital imaging, to perform these special services, and often have great experience in successfully treating patients who present in pain. Patients requiring root canal therapy are either referred by their general dentists to the endodontist or are self-referred; the most common procedure done in endodontics is root-canal therapy. Other procedures practiced in endodontics include incision for drainage, internal tooth bleaching to fix teeth that have blackened because of infiltration of decayed soft tissue into the dentin in the teeth - most often seen in incisors that have been injured through a sudden impact, and periradicular surgery; the more radical treatments generally are needed in cases of abscesses, root fractures, and problematic tooth anatomy, but may be indicated in treating teeth that have persistent root end pathosis following root canal treatment.

Recent Publications on Endodontics:



- [Apical extrusion of intracanal bacteria following use of various instrumentation techniques.](#)
AIM: To evaluate the number of bacteria extruded apically from extracted... 10th January, 2009
Department of Endodontics, School of Dentistry, Cumhuriyet University,- Int Endod J. 2008
Dec;41(12):1066-71. ([DOI Direct Link](#))
- [Outcome of secondary root canal treatment: a systematic review of the literature.](#)
AIMS (I): To investigate the effects of study characteristics on the... 10th January, 2009
Unit of Endodontology, UCL Eastman Dental Institute, University College- Int Endod J. 2008
Dec;41(12):1026-46. ([DOI Direct Link](#))
- [Anomalous mandibular premolars: a mandibular first premolar with three roots and a mandibular second premolar with a C-shaped canal system.](#)
AIM: To describe unusual variations in the root morphology and root canal... 10th January, 2009
Faculty of Dentistry, Department of Dental Clinical Sciences, Dalhousie- Int Endod J. 2008
Nov;41(11):1005-14. ([DOI Direct Link](#))
- [Microscopic appearance and apical seal of root canals filled with gutta-percha and ProRoot Endo Sealer after immersion in a phosphate-containing fluid.](#)
AIM: To investigate the sealing quality of ProRoot Endo Sealer, a calcium... 10th January, 2009

- Department of Endodontics, School of Dentistry, Medical College of- Int Endod J. 2008 Nov;41(11):977-86. ([DOI Direct Link](#))
- [Ex vivo evaluation of dye penetration associated with various dentine bonding agents in conjunction with different irrigation solutions used within the pulp chamber.](#)
*AIM: To compare the effect of sodium hypochlorite (NaOCl), chlorhexidine,...*10th January, 2009
 Department of Operative Dentistry & Endodontics, Government Dental- Int Endod J. 2008 Nov;41(11):950-7. ([DOI Direct Link](#))
 - [The microbiota of acute apical abscesses.](#)
*As the breadth of bacterial diversity in the oral cavity has been...*10th January, 2009
 Department of Endodontics, Faculty of Dentistry, Estacio de Sa University,- J Dent Res. 2009 Jan;88(1):61-5. ([DOI Direct Link](#))
 - [Comparison of Streptococcus mutans strains from children with caries-active, caries-free and gingivitis clinical diagnosis by pulsed-field gel electrophoresis.](#)
*A study was conducted to compare the DNA structure of Streptococcus mutans...*10th January, 2009
 Department of Conservative Dentistry and Endodontics, Semmelweis- Acta Microbiol Immunol Hung. 2008 Dec;55(4):419-27.
 - [Pulp revascularization of necrotic bilateral bicuspid using a modified novel technique to eliminate potential coronal discolouration: a case report.](#)
*AIM: To present a case report in which the pulp of two bilateral...*8th January, 2009
 Department of Endodontics, School of Dentistry, University of Washington,- Int Endod J. 2009 Jan;42(1):84-92. ([DOI Direct Link](#))
 - [Root canal morphology of mandibular first premolars in an Indian population: a laboratory study.](#)
*AIM: To determine the root canal morphology of mandibular first premolar...*8th January, 2009
 Department of Conservative Dentistry & Endodontics, Meenakshi Ammal Dental- Int Endod J. 2009 Jan;42(1):54-8. ([DOI Direct Link](#))
 - [Influence of glutaraldehyde priming on bond strength of an experimental adhesive system applied to wet and dry dentin.](#)
*OBJECTIVES: This study tested the following null hypotheses: (1) there is...*7th January, 2009
 Department of Restorative Dentistry, Endodontics and Dental Materials,- J Dent. 2009 Jan 3. ([DOI Direct Link](#))
 - [Perceived intensity and unpleasantness of cutaneous and auditory stimuli: An evaluation of the generalized hypervigilance hypothesis.](#)
*According to the Generalized Hypervigilance Hypothesis (GHH) of McDermid...*6th January, 2009
 Department of Psychology, University of North Carolina at Chapel Hill,- Pain. 2008 Dec 31. ([DOI Direct Link](#))
 - [Application of stereological principles for quantification of bacteria in intact dental biofilms.](#)
*INTRODUCTION: Quantative confocal laser scanning microscopy (CLSM) in...*6th January, 2009
 Department of Dental Pathology, Operative Dentistry and Endodontics,- Oral Microbiol Immunol. 2009 Feb;24(1):69-75. ([DOI Direct Link](#))
 - [Assessment of pulp vitality: a review.](#)
*BACKGROUND: One of the greatest diagnostic challenges in clinical practice...*6th January, 2009
 Department of Conservative Dentistry and Endodontics, Meenakshi Ammal- Int J Paediatr Dent. 2009 Jan;19(1):3-15. ([DOI Direct Link](#))
 - [In vitro comparison of three different lengths of remaining gutta-percha for establishment of apical seal after post-space preparation.](#)
*The quality of apical seal with regard to the length of remaining...*25th December, 2008
 Department of Endodontics, Tabriz Dental School, Tabriz University- J Oral Sci. 2008 Dec;50(4):435-9.
 - [The effect of master point taper on bond strength and apical sealing ability of different root canal sealers.](#)
*OBJECTIVE: The aim of this study was to compare the bond strength and...*23rd December, 2008
 Department of Endodontics, Faculty of Dentistry, Hacettepe University,- Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2009 Jan;107(1):e61-4. ([DOI Direct Link](#))

BioNews Results for Endodontics

- [Dissolution of root canal sealers in EDTA and NaOCl solutions](#)
MDLinx: Jan 6 2009 11:34AM Matching: endodontics
- [Fosamax: Higher Risk of Jawbone Death?](#)
WebMD: Jan 2 2009 11:20PM Matching: endodontics
- [Mouthrinses for the treatment of halitosis](#)
MDLinx: Jan 1 2009 5:07AM Matching: endodontics
- [Investigating the relationship between self-reported oral health status, oral health-related behaviors and sel](#)
MDLinx: Dec 30 2008 6:44PM Matching: endodontics
- [Molecular analyses of bacterial DNA in extirpated heart valves from patients with infective endocarditis](#)
MDLinx: Dec 19 2008 12:50AM Matching: endodontics
- [Association between Bifidobacteriaceae and the clinical severity of root caries lesions](#)
MDLinx: Dec 19 2008 12:50AM Matching: endodontics
- [Characterization of Coaggregation of Fusobacterium nucleatum PK1594 with Six Porphyromonas gingivalis Strains](#)
MDLinx: Dec 12 2008 7:16PM Matching: endodontics
- [Surgical and Nonsurgical Endodontic Treatment-induced Stress](#)
MDLinx: Dec 12 2008 7:16PM Matching: endodontics
- [Effect of Dental Students as Instructors on Preclinical Performance in Prosthodontics](#)
MDLinx: Dec 5 2008 4:12PM Matching: endodontics
- [Patient Satisfaction in a Restorative Functions Dental Hygiene Clinic](#)
MDLinx: Dec 5 2008 4:12PM Matching: endodontics
- [Oral involvement in primary Sjogren syndrome](#)
MDLinx: Dec 5 2008 2:29PM Matching: endodontics
- [A usability evaluation of four commercial dental computer-based patient record systems](#)
MDLinx: Dec 5 2008 2:29PM Matching: endodontics
- [Preventing dentists' involvement in torture](#)
MDLinx: Dec 5 2008 2:29PM Matching: endodontics
- [The impact of polyol-containing chewing gums on dental caries](#)
MDLinx: Dec 5 2008 2:29PM Matching: endodontics
- [Root Canal or Dental Implant?](#)
WebMD: Nov 19 2008 11:27PM Matching: endodontics

Endodontics Clinical Trials:



- [Clinical Study to Evaluate the Safety and Efficacy of the Apexum Ablator in Subjects With Periapical Lesions Associated With Root Canal Infection](#)



Endodontics Patents:

- 7211136- [Dental filling material](#)
- 7258734- [Injectable calcium phosphate cements and the preparation and use thereof](#)
- 7261562- [Water-indicating endodontic monitoring devices](#)
- 7261563- [Methods of filling a root canal with adhesive endodontic cones and polymerizable filling and sealing materials](#)
- 7270541- [Endodontic files having variable helical angle flutes](#)
- 7278852- [Kit of sub-kits for placing a dental post](#)
- 7279038- [Process for affecting the setting and working time of bioresorbable calcium phosphate cements](#)
- 7292759- [Contra-angle rotating handpiece having tactile-feedback tip ferrule](#)
- 7294187- [Rapid-hardening calcium phosphate cement compositions](#)
- 7300281- [Endodontic file having bi-directional scraping edges](#)
- 7303817- [Dental filling material](#)
- 7252508- [Endodontic obturator](#)
- 7249952- [Methods and apparatus for simulating dental procedures and for training dental students](#)
- 7247288- [Method of manufacturing hydroxyapatite and uses therefor in delivery of nucleic acids](#)
- 7214265- [Injectable calcium phosphate cements and the preparation and use thereof](#)
- 7220122- [Systems and methods for positioning teeth](#)
- 7223100- [Endodontic instrument having notched cutting surfaces](#)
- 7226288- [Apparatus for evacuation of root canal](#)
- 7226470- [Phototherapeutical apparatus and method for the treatment and prevention of diseases of body cavities](#)
- 7232309- [Endodontic platform and use thereof](#)
- 7238342- [Irrigation solution and methods for use](#)
- 7241142- [Root-based tooth moving sequencing](#)
- 7245977- [Systems and methods for mass customization](#)
- 7247021- [Subdividing a digital dentition model](#)
- 7311522- [Endodontic instruments and method of manufacturing same](#)
- 7320598- [Method for filling and sealing a root canal](#)
- 7398598- [Methods for manufacturing endodontic instruments](#)
- 7402403- [Tumour markers](#)
- 7404967- [Topical product formulations containing strontium for reducing skin irritation](#)
- 7428481- [Efficient data representation of teeth model](#)
- 7433810- [Efficient data representation of teeth model](#)
- 7435083- [Tooth path treatment plan](#)
- 7435086- [Endodontic tool having reduced torque demands](#)
- 7452207- [Methods and systems for modeling bite registration](#)
- 7461982- [Contra-angle rotating handpiece having tactile-feedback tip ferrule](#)
- 7470124- [Instrument for delivery of optical energy to the dental root canal system for hidden bacterial and live biofilm thermolysis](#)
- 7396644- [Method of diagnosing and treating dentinogenesis imperfecta type II by using dentin sialophosphoprotein gene and coded product thereof](#)
- 7390335- [Nanostructured bioactive materials prepared by spray drying techniques](#)
- 7378101- [Vaccine for periodontal disease](#)

- 7322105- [Methods for manufacturing endodontic instruments by milling](#)
- 7326051- [Methods and systems for treating teeth](#)
- 7331783- [System and method for positioning teeth](#)
- 7331787- [Characterization of an antibiotic impregnated delivery system as an intracanal medicament in endodontic therapy](#)
- 7338284- [Endodontic instrument and instrument system](#)
- 7357634- [Systems and methods for substituting virtual dental appliances](#)
- 7357636- [Manipulable dental model system for fabrication of a dental appliance](#)
- 7361020- [Dental tray containing radiopaque materials](#)
- 7373286- [Efficient data representation of teeth model](#)
- 7377778- [System for determining final position of teeth](#)
- 7474307- [Clinician review of an orthodontic treatment plan and appliance](#)

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