

Dr. K. Shekhar, MDS

- **Professor & Head, Department of Conservative Dentistry and Endodontics**
- **Senior Consultant – Endodontics, FMS International Dental Center**

Executive Profile

Dr. K. Shekhar is a highly accomplished endodontist, academician and clinician with over two decades of experience in advanced conservative dentistry and root canal therapy. He is widely recognized for his expertise in managing complex root canal morphologies, retreatment of failed endodontic cases and conventional endodontics.

His clinical excellence lies in preserving natural teeth through precise diagnosis and advanced treatment protocols. Dr. Shekhar has been at the forefront of adopting **laser-assisted endodontics, microscopic endodontics and minimally invasive dentistry**, enabling predictable and long-lasting outcomes even in severely compromised teeth.

With extensive experience in evaluating pulpal health and restoring badly broken-down teeth, he is known for successfully rehabilitating structurally compromised dentition, restoring not only function and aesthetics but also patient confidence.

His approach is strongly rooted in **evidence-based dentistry**, integrating advanced technologies and interdisciplinary treatment planning to deliver optimal clinical results.

Academic Qualifications

Master of Dental Surgery, MDS in Conservative Dentistry & Endodontics
College of Dental Sciences, Davangere,
Rajiv Gandhi University of Health Sciences,
September 2006

Bachelor of Dental Surgery (BDS)
Oxford Dental College & Hospital, Bangalore,
Rajiv Gandhi University of Health Sciences,
April 2001

Registration

Telangana State Dental Council - A-3105

Professional Experience

- ✓ **25+ years** of clinical experience in dentistry
- ✓ **20+ years** of academic and teaching experience in Conservative Dentistry & Endodontics
- ✓ Professor and Head guiding undergraduate and postgraduate education
- ✓ Mentor to numerous postgraduate students and young dental professionals

Core Clinical Expertise

Dr. Shekhar's clinical focus includes the management of complex and advanced endodontic conditions such as:

- ✓ Laser-assisted root canal treatments
- ✓ Management of failed root canal cases (Endodontic retreatments)
- ✓ Treatment of complex root canal anatomy under magnification
- ✓ Restoration of severely damaged and mutilated teeth
- ✓ Minimally invasive and adhesive dentistry
- ✓ Interdisciplinary treatment planning with prosthodontic and periodontal integration

Clinical Case Experience

Dr. Shekhar has extensive experience in handling a wide spectrum of challenging clinical cases, including:

- ✓ Complex pulpal and periapical pathologies
- ✓ Restoration of grossly decayed and structurally compromised teeth
- ✓ Reinforcement of weakened teeth using fiber-based restorative techniques
- ✓ Aesthetic rehabilitation including veneers and anterior restorations
- ✓ Multidisciplinary management of complex dental conditions with Prosthetics & Periodontics

His clinical expertise has contributed to the successful treatment of **thousands of advanced endodontic cases** with predictable outcomes.

Advanced Training & Continuing Education

Dr. Shekhar has actively participated in numerous national and international continuing dental education programs over the past two decades. His areas of ongoing learning include:

- ✓ Advanced endodontic techniques
- ✓ Laser dentistry
- ✓ Digital and microscopic endodontics
- ✓ Adhesive and restorative dentistry

He remains committed to continuously upgrading his clinical skills in line with global advancements.

Research & Publications

Dr. Shekhar has made significant contributions to academic dentistry through multiple scientific publications in reputed national and international journals. His research areas include:

S.No.	Title of the Articles	Journal Details
1.	Comparative evaluation of microshear bond strength of adhesive resin to coronal dentin vs dentin at floor of pulp chamber.	Journal of conservative dentistry. 2006
2.	Unusual maxillary first molar with two palatal canals located under operating microscope.	Annals and essences of dentistry 2011
3.	Endodontic management of mandibular molar with 6 root Canal systems.	J conserve dent 2015,(5):419-22
4	The clinical accuracy of 2 electronic apex locators to determine working length in comparison with standard radiographic method in teeth with and without periapical lesions.	Endodontology 2015; 27(2):136-41
5	Effect of Diode Laser on Bacteria Beyond the Apex in Relation to the Size of the Apical Preparation–An In-Vitro Study. Journal of Clinical and Diagnostic Research:	JCDR 2016; 10 (5), ZC63
6	Resin bond strength to water vs ethanol – saturated human dentin pretreated with three different cross linking agents. An invitro study.	Journal of conservative dentistry 2016:19(6):555-559
7	Canal centering ability of two single file systems with different kinematics using cone beam computed tomography- An invitro study. Manipal	journal of dental sciences2017, 3(1):14-17
8	Recent advances in extra alveolar storage medium: An overview.	Journal of dental science and research, 2017,22-28
9	Comparison of pushout bond strength of three different obturating systems to intraradicular dentin: an invitro study	Contemporary clinical dentistry;2019:10(4)
10	Antibacterial activity of chitosan and its combination with other irrigants on Enterococcus faecalis An invitro study	Endodontology 2019;31:133-137.
11	A Novel method in intervening pulpal canal obliteration with 3D printing : A case report	Journal of conservative dentistry: 2020: April,
12	Comparative evaluation of shear bond strength of Cention N with other aesthetic restorative materials to dentin- An invitro study	Annals of R.S.C.B;2021;25(6):12707-12714.
13	Targeted Endodontic Microsurgery : A Guided Approach- A Report of Two Cases	Contemporary clinical dentistry;2022:13(3);280-283
14	Effect of novel quaternary ammonium silane based cavity cleanser Fite Bac 2%K21QAS in comparison with other cavity disinfectants	Journal of conservative dentistry 2023;28(12):1234-1239.

	on bond strength of Resin modified Glassionomer cement	
15	Effect of Incorporating Various Nanoparticles on the Flexural Strength, Compressive Strength, and Antimicrobial Activity of Conventional Glass Ionomer Cement: An in Vitro Study	International Journal of Dental Science and Innovative Research, 2025:26(6):688-692.
16	A Mandibular Premolar with Varied Configuration: A Case Report	Cureus 2025:17(10)
17	Reinforcing the lost margins with different approaches: An invitro study	Journal of conservative dentistry 2025:28(12):1234-1239.
18	An invitro evaluation of various natural intracanal medicaments for the effect of hardness on tooth structure and antimicrobial efficacy	Journal of conservative dentistry 2026:29(3):260-264.

He has authored and co-authored numerous peer-reviewed articles, reflecting his strong academic and research orientation.

Professional Memberships

Dr. Shekhar is an active member of leading professional organizations:

- ✓ Indian Dental Association (IDA)
- ✓ Indian Association of Conservative Dentistry & Endodontics (IACDE)
- ✓ Executive Committee Member, IACDE (2021)

Teaching & Mentorship

An accomplished academician, Dr. Shekhar has played a pivotal role in shaping future dental professionals. His contributions include:

- ✓ Training undergraduate and postgraduate students
- ✓ Guiding clinical research and dissertations
- ✓ Mentoring young clinicians in advanced endodontic techniques
- ✓ Conducting academic lectures and clinical workshops

Patient Care Philosophy

Dr. Shekhar believes that successful endodontic treatment is built on precision, preservation and predictability. His clinical philosophy emphasizes:

- ✓ Accurate diagnosis and prognosis evaluation
- ✓ Preservation of natural tooth structure
- ✓ Use of advanced technology and magnification

- ✓ Evidence-based and minimally invasive treatment protocols
- ✓ Long-term functional and aesthetic outcomes