

PROFESSIONAL SUMMARY

Dental clinician, academic, and researcher with over a decade of clinical experience and three years of advanced research training. A highly skilled endodontic specialist and researcher combining advanced clinical precision with exceptional communication skills. Proven track record of mentoring clinical teams, presenting rigorous academic research, and elevating the patient experience through empathetic, clear, and comprehensive treatment planning. Demonstrated track record in leading multi-institutional research collaborations, with expertise in biofilm science, antimicrobial biomaterials, and next-generation metagenomic sequencing. Committed to translating laboratory findings into clinically meaningful outcomes.

EDUCATION & QUALIFICATIONS

PhD in Endodontics | Faculty of Dentistry, Ain Shams University, Egypt *Sept 2021 – April 2026*

- Thesis: Investigating the Effect of Alternative Antimicrobials on the Proportions of Pathogenic Bacteria Associated with Root Caries and Pulp Necrosis
- Successfully defended April 2026
- Clinical component: 32 advanced endodontic cases (separated instruments, root perforations, complex retreatment, open apex); assisted in endodontic surgery

Postgraduate Research Visitor | University of Leeds, UK (Newton-Mosharafa Fund) *Nov 2021 – Feb 2023*

- Joint supervision scholar; conducted laboratory research in oral microbiology and biofilm science

MSc in Endodontics | Faculty of Dentistry, Cairo University, Egypt *2017*

- Thesis: Efficacy of Calcium Hydroxide Combined with Silver Nanoparticles vs. Conventional CaOH as Intracanal Medication — Randomised Clinical Trial

BDS (Bachelor of Dental Surgery) | Faculty of Dentistry, Cairo University *2010*

PROFESSIONAL EXPERIENCE

Specialist Endodontist | Private Clinic, Egypt *Sept 2025 – Present*

Assistant Lecturer, Department of Endodontics | Faculty of Dentistry, Assiut University *Feb 2019 – Present*

Clinical Supervision & Mentorship: Direct and supervise dental internship students during live patient treatments, ensuring strict adherence to advanced endodontic protocols and clinical requirements.

Diagnostic Training: Instruct students on comprehensive endodontic diagnostic processes, including radiographic interpretation and case difficulty assessment, bridging the gap between academic theory and practical application.

Skill Standardization: Break down complex endodontic procedures into clear, structured workflows, elevating the technical precision and clinical confidence of junior practitioners.

Quality Assurance: Evaluate student performance and case outcomes, fostering an evidence-based environment that prioritizes premium patient care and exact clinical standards.

RAGHDA MOHAMED ABDELGAWAD

BDS | MSc | PhD (Endodontics)

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Restorative Dentist & Endodontist | Private Practice Centre

Feb 2012 – Oct 2021

Dental General Practitioner | Ministry of Health and Population, Cairo

Apr 2012 – Feb 2019

Intern Dentist | Cairo University Educational Dental Hospital

Nov 2010 – Oct 2011

PUBLICATIONS

- Pectin as a Biomaterial in Regenerative Endodontics — Assessing Biocompatibility and Antibacterial Efficacy against Common Endodontic Pathogens: An In Vitro Study. Journal of Bioengineering, 2024. <https://doi.org/10.3390/bioengineering11070653>
- Comparative Efficacy of Calcium Hydroxide Combined with Silver Nanoparticles and Conventional Calcium Hydroxide as Intracanal Medications in Reducing Post-operative Pain in Endodontic Retreatment: A Randomised Clinical Trial. Jordan Journal of Dentistry, 2025. <https://doi.org/10.14525/JJD.v2i2.06>
- Antimicrobial 3D-Printed Gelatin Scaffolds for Root Canal Disinfection in Regenerative Endodontic Procedures. Journal of Biomaterials Science, 2025. <https://doi.org/10.1039/D5BM00440C>
- Tribocorrosion and Antibacterial Behaviour of Boron-Embedded Oxide-Coated Ti45Nb by Plasma Electrolytic Oxidation. (Under review)

AWARDS & FUNDING

- Best Poster Prize — APEC-PANENDO 2026
- Newton-Mosharafa Joint Supervision Scholarship 2021 — University of Leeds, UK

CONFERENCES & COURSES

- Endo Show 2026
- IDEX 2026
- APEC-PANENDO 2026 — Best Poster Prize
- BSODR Annual Meeting, September 2024
- II Oral Biology Symposium, University of Brasilia, June 2023
- BiTEG Scientific Meeting, December 2022 (Poster Presentation)
- PER-IADR, September 2022 (Poster Presentation)
- Pan Arab Endodontic Conference (PAEC), December 2017
- PanEndo 2019

SKILLS

Research & Laboratory

Biofilm assays (planktonic, SEM, CLSM), NGS/metagenomic sequencing, HUMAnN functional profiling, alpha/beta diversity analysis, GraphPad Prism (v8, 9), statistical analysis (ANOVA, Tukey HSD, Welch's t-test, Dunn test)

Academic & Clinical

Academic writing, grant/proposal development, experimental planning, curriculum development, student mentorship, seminar management; advanced endodontic clinical competency (retreatment, complex cases, surgery)

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Computing

Microsoft Office Suite, GraphPad Prism, Windows 10/11, data management and visualisation

Languages

Arabic (native), English (professional proficiency)

CLINICAL PORTFOLIO & REFERENCES

A comprehensive logbook and visual portfolio containing pre-operative, intra-operative, and post-operative radiographs is available upon request. Academic and professional references available on request.