

Dr Amre R. Atmeh

Associate Professor and Consultant Endodontist

Department of Restorative Dentistry

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Date of birth: 17-07-1981

Place of Birth: Glasgow-UK

Gender: Male

Marital status: Married

Nationality: British

Education:

- PhD in Biomaterials, Tissue Engineering and Imaging, with clinical training in endodontics. King's College London Dental Institute, London- UK. July 2013.
- Thesis Title: *Optical Characterisation of the interaction between calcium-silicate based dental restorative materials and dentine.*
- Jordanian Board of Endodontics, Amman-Jordan. Feb 2015
- MSc in Endodontics, Faculty of Dentistry, Jordan University of Science and Technology, Irbid-Jordan. July 2007.
- MFD- Royal College of Surgeons in Ireland, November 2006.
- BDS, Faculty of Dentistry, Jordan University of Science and Technology, Irbid-Jordan. June 2004.

Employment:

- **August 2021-present:** Associate professor in Endodontics, Department of Restorative Dentistry, Hamdan Bin Mohammed College of Dental Medicine (HBMCDM), Mohammed Bin Rashid University of Medicine and Health Sciences (MBRU), Dubai-UAE.
- **Jan 2023- present:** Visiting lecturer & research fellow in the Institute of Clinical Sciences within the College of Medical and Dental Sciences, University of Birmingham, Birmingham-UK.
- **Jan 2016- August 2021:** Assistant professor in Endodontics, Department of Restorative Dental Sciences, College of Dentistry, Imam Abdulrahman Bin Faisal University (formerly University of Dammam), Dammam-KSA.
- **June 2014- 2020:** Visiting lecturer & researcher, King's College London Dental Institute, London-UK.
- **Oct 2013- Dec 2015:** Full-time lecturer and specialist endodontist, Department of Conservative Dentistry, Faculty of Dentistry, Jordan University of Science and Technology, Irbid - Jordan.
- **Oct 2012- Sept 2013:** Full-time specialized clinical training in Endodontics. Restorative Dentistry Department, King's College Hospital, London-UK.
- **Sept 2007- Sept 2009:** General dentist specialized in Endodontics, Saad Specialist Hospital, Al-Khobar-Saudi Arabia.
- **July 2005-Sept 2005:** MFD trainee, Dental Health Centre, Jordan University of Science and Technology. Irbid – Jordan.
- **July 2004- Dec 2004:** Internship in General Dentistry, Dental Health Centre, Jordan University of Science and Technology. Irbid – Jordan.

H- Bibliography:

- **Atmeh AR**, Chong EZ, Richard G, Festy F, Watson TF. Dentin-cement interfacial interaction: calcium silicates and polyalkenoates. J Dent Res. 2012 May;91(5):454-9.
- Watson TF, **Atmeh AR**, Sajini S, Cook RJ, Festy F. Present and future of glass-ionomers and calcium-silicate cements as bioactive materials in dentistry: Biophotonics-based interfacial analyses in health and disease. Dent Mater 2014 Jan;30(1):50-61.
- **Atmeh AR**, Chong EZ, Richard G, Festy F, Boyde A, Watson TF. Calcium silicate cement -induced remineralisation of totally demineralised dentine in comparison with glass ionomer cement: Tetracycline labelling and two-photon fluorescence microscopy. Journal of Microscopy, 2015 257(2), pp.151-160.
- Jamleh A, Yahata Y, Ebihara A, **Atmeh AR**, Bakhsh T, Suda H. Performance of NiTi endodontic instrument under different temperatures. Odontology. 2015 Aug 22:1-5.
- **Atmeh AR**, Watson TF. Root dentine and endodontic instrumentation: cutting edge microscopic imaging. Interface Focus. 2016 6: 20150113.
- **Atmeh AR**, AlShwaimi E. The Effect of Heating Time and Temperature on Epoxy Resin and Calcium Silicate-based Endodontic Sealers. Journal of endodontics 2017, 43(12):2112-2118.
- Habashneh RA, Qabaha M, Khader Y, Ghassib I, **Atmeh A**. Gingival Health Around Cervical Carious Lesions Restored with Calcium Silicate-based Cement (Biodentine™) Compared with Glass-ionomer Cement: A Randomized Clinical Trial. The journal of contemporary dental practice. 2019 Jun 1;20(6):703.
- **Atmeh AR**, Hadis M, Camilleri J. Real-time chemical analysis of root filling materials with heating; guidelines for safe temperature levels. International Endodontic Journal. 2020 Jan 18.
- **Atmeh AR**. Investigating the effect of bicarbonate ion on the structure and strength of calcium silicate-based dental restorative material—Biodentine. Clinical Oral Investigations. 2020 Dec;24:4597-606.

- **Atmeh AR**, Hamasha AA. Outcome assessment of non-surgical root canal treatment by patients: what factors can influence their evaluation? *British Dental Journal*. 2020 May;228(10):762-6.
- **Atmeh AR**, Alharbi R, Aljamaan I, Alahmari A, Shetty AC, Jamleh A, Farooq I. The Effect of Sealer Application Methods on Voids Volume after Aging of Three Calcium Silicate-Based Sealers: A Micro-Computed Tomography Study. *Tomography*. 2022 Mar 14;8(2):778-88.
- **Atmeh AR**, Watson TF. Biodentine™ Physico-Chemical Properties: From Interactions with Dental Tissues to Ageing. *Biodentine™: Properties and Clinical Applications*. 2022:11-30.
- Camilleri J, **Atmeh AR**, Li X, Meschi N. Present status and future directions: Hydraulic materials for endodontic use. *International Endodontic Journal*. 2022 May;55:710-77.
- **Atmeh AR**, AlMadi M, AlShwaimi E. Alkaline conditions can affect the volume and chemical characteristics of dental gutta-percha. *Australian Endodontic Journal*. 2021.
- Sajini S, **Atmeh AR**, Banerjee A, Festy F, Cook RJ, Andiappan M, Watson TF. Glass-ionomer and calcium silicate-based cements interactions with human dentine in health and disease: Two-photon fluorescence microscopy and Raman spectroscopy analysis. *Dental Materials*. 2022 Nov 1;38(11):1710-20.
- Alqassab F, **Atmeh AR**, Aldossary N, Alzahrani N, Madi M, Omar O. Inflammatory and differentiation cellular response to calcium silicate cements: An in vitro study. *International Endodontic Journal*. 2023 May;56(5):593-607.
- Alhindi OH, **Atmeh AR**, Alhawaj H, Omar O. Inflammatory response to epoxy resin and calcium silicate sealers preheated with different temperatures: an in vivo study. *Clinical Oral Investigations*. 2023 May;27(5):2235-43.
- Aldawood SA, Omar O, Almohazey D, **Atmeh AR**. Reliability of sealer penetration measurement methods and assessment of dentine penetrability after endodontic retreatment: A correlation in vitro study. *Australian Endodontic Journal*. 2023 Jan 23.
- Al-Sadah AY, AlEraky DM, Abuhashish HM, **Atmeh AR**. Evaluation of the antimicrobial efficacy of different nonsteroidal anti-inflammatory drugs alone or in

combination with calcium hydroxide intracanal medicament: an in vitro study. *Odontology*. 2024 Jan 24;1-3.

- **Atmeh AR**, Alshaiji D, Abdunabi F, Alamri M, Khamis AH. Comparing the softening effect of three gutta-percha solvents on different types of gutta-percha with different application durations. *The Saudi Dental Journal*. 2024 Feb 1;36(2):281-5.
- Al Omari T, **Atmeh AR**, Algahtani FN, Dkmak A, Albanna RH, Tabnjh A. The effect of irrigation solution temperature and novel heat-treated rotary files on apical debris extrusion and canal preparation time. *Australian Endodontic Journal*. 2023 Nov 21.
- **Atmeh AR**, Al Omari T, AlQifari AF, Jamleh A. Exploring morphometric transformations in temperature-sensitive NiTi instruments alongside real-time intracanal temperature dynamics. *International Endodontic Journal*. 2024 Sep;57(9):1360-70.

I- Oral presentations and Workshops:

- The intracanal temperature and canal preparation: Wat is the relation? AEEDC. Dubai - UAE (Feb 2025)
- Tricalcium silicates: Actions and Interactions. The Pulp Summit. Paris - France (Jan 2025)
- Calcium silicate-based materials in dentistry; Are we shifting or drifting? Pan-Arab Endodontic Conference. Amman-Jordan (Oct 2024)
- Endodontic instrumentation and intracanal temperature. IFEA World Endodontic Congress. Glasgow-UK (Sept 2024)
- Calcium silicate-based materials in dentistry; Are we shifting or drifting? AEEDC. Dubai- UAE (Feb 2024)
- Assessing root canal fillings: to retreat or to re-treat? HBMCDM Annual Dental Symposium. Dubai- UAE (June 2023)
- Calcium silicate-based materials: Aspects & prospects in dental research. University of Birmingham. (**Invited speaker**)- Birmingham-UK (Feb 2023)
- Calcium silicate-based materials: Aspects & prospects in dental research. (**Invited speaker**)- IADR Pakistani division (Jan 2023)

- Hydraulic calcium silicate materials in endodontics. 7th Pan Arab endodontic conference. Dubai- UAE (Nov 2022).
- The scientific evidence for the use of hydraulic cements in clinical Endodontics- Physical properties & characterization evaluation. (**Invited speaker**)- IADR Pan European Regional Meeting- Helsinki, Finland (Sept 2022)
- Effects of Carbonation on The Strength and Structure of Biodentine. Continental European Division of the IADR in Madrid, Spain (September 2019).
- A Step-by-step Approach for Diagnosis & Treatment Planning. IAU endo-day workshop (April 2019).
- Endodontics; The Big Picture. The 20th Kuwait Dental Association Scientific Conference- Kuwait (Nov 2018)
- Effect of Heat on Epoxy-Resin and Calcium-Silicate Based Endodontic Sealers. Continental European Division of the IADR in Vienna, Austria (September 2017).
- Advances in endodontics; Single reciprocating files, Apex locators, & carrier-based Gutta-Percha (workshop) – Jordan University of Science and Technology, Irbid - Jordan (Oct 2015).
- Training Course on ProTaper® Universal rotary files & warm vertical obturation – Jordan University of Science and Technology, Irbid - Jordan (Nov 2014).
- Remineralization ability of a calcium silicate material of demineralized dentin. Continental European Division of the IADR (**Invited speaker**)- Florence, Italy (September 2013).
- Biodentine-induced remineralisation of dentine: Tetracycline labelling and two-photon fluorescence microscopy. IADR Pan European Regional Meeting- Helsinki, Finland (September 2012)
- Tetracycline Labelling for Mineralization Imaging of Dentine with Calcium-Silicate Cement. British Society for Oral and Dental Research Meeting-Sheffield, UK (September 2011).
- Dynamic Bioactive Interface with the Dental Tissues. Continental European Division of the International Association for Dental Research (**Invited speaker**)- Budapest, Hungary (August 2011).

J- Membership in Professional Societies:

- International Association of Dental Research (IADR)
- Emirates Endodontic Society
- Board member of the UAE section of the IADR
- Jordanian Dental Association
- Jordanian Endodontic Society
- British Endodontic Society
- Saudi Endodontic Society
- Saudi Dental Society
- Membership of the Faculty of Dental Surgery in the Royal College of Surgeons in Ireland.

K- Honors and prizes:

- University honor list for the academic year 1999/2000. Jordan University of Science and Technology. Irbid-Jordan.
- Graduated with 2nd rank, Jordan University of Science and Technology. Irbid-Jordan (June 2004).
- Best research poster presentation, Frontiers in Bio-Imaging. Manchester-UK (September 2011).
- Best student research oral presentation, King's College London Dental Institute Annual Research Day, London- UK. (May 2012)