

## **Layla Y. S. Hassouneh**

BDS, MSc(Clin), PhD

Assistant Professor in Endodontics

Faculty of Dentistry

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## **Education and Clinical Specialty Training**

- **PhD in Restorative Dentistry** (University of Leeds, UK, 2021)
- **Jordanian Board of Endodontics (Jordanian Medical Council)**, Sep 2015.
- Membership of the Faculty of Dentistry of the Royal College of Surgeons in Ireland (**MFD, RCSI**)
- **Advanced Clinical Training in Endodontics**, Jordan University of Science and Technology (JUST), May 2014.
- **MSc (Endodontics)**: Jordan University of Science and Technology, 2013.
- **B.D.S**: Jordan University of Science and Technology, 2009

## **Professional Experience**

- Assistant professor and specialist in Endodontics and Restorative dentistry, clinical faculty member, Jordan University of Science and Technology (2021-present)
- Part time clinical demonstrator, University of Leeds, UK, (2019-2021)
- Full-Time clinical lecturer at the Department of Conservative Dentistry, Jordan University of Science and Technology (Sep 2015 – 2018).
- Part-Time Lecturer at Department of Conservative Dentistry, Jordan University of Science and Technology (June 2014 – Aug 2015).
- Advance clinical training in Endodontics at Jordan University of Science and Technology, (May 2013 to May 2014)
- Dental Practitioner at Private Dental Clinic (June 2010 – Feb 2015).
- Teaching Assistance (TA) at Jordan University of Science and Technology, Department of Endodontics, (Feb 2012 – April 2012).

- Internship in Dentistry at Jordanian Ministry of Health, Amman, Jordan (Jul 2009 - Jan 2010).

## **Clinical and Academic Roles:**

- Clinical Endodontic specialist at JUST specialized dental clinics
- Teaching and clinical supervision of 4th and 5th year undergraduate students in the fields of Operative dentistry, Endodontics, and Restorative dentistry.
- Clinical Supervision of Internships in the Conservative clinics.
- Supervision of undergraduate students in pre-clinical Operative and Endodontic labs.
- Examiner in final comprehensive written, oral and clinical examinations for undergraduate dental students.
- Teaching and clinical supervision of PG students in the Endodontic clinics.

## **Research Interests**

- Adhesive dentistry
- CAD/CAM resin composites, dental ceramics, Zirconia
- Restoration of RCT teeth
- Dental Bioceramic materials
- Regenerative Endodontics
- Tissue engineering and biomineralisation
- Nickel-Titanium Rotary files
- Dental Education
- Dental Ethics

## **Research Skills**

- BioMechanical testing of materials
- Surface characterization
- Tribology analysis
- SEM imaging
- Finite element analysis
- Micro-computed Tomography
- Clinical trials
- Statistical analysis
- Building & validating questionnaires

## **Publications**

- Al-Qudah A, Almomani M, Hassouneh L, Awawdeh L. Outcome of Regenerative Endodontic Procedures in Nonvital Immature Permanent Teeth Using 2 Intracanal Medications: A Prospective Randomized Clinical Study. *Journal of Endodontics*. 2023 May 22.
- Hassouneh L, Jum'ah AA, Ferrari M, Wood DJ. Post-fatigue fracture resistance of premolar teeth restored with endocrowns: An in vitro investigation. *Journal of Dentistry*. 2020 Sep 1;100:103426.
- Hassouneh L, Jum'ah A, Ferrari M, Wood DJ. A Micro-computed Tomography Analysis of Marginal and Internal Fit of Endocrowns Fabricated from Three CAD/CAM Materials. *Operative Dentistry*. 2023 Jan;48(1):79-89.

- Hassouneh L, Matoug-Elwerfelli M, Al-Omari T, Setzer FC, Nagendrababu V. Assessment of biomechanical behavior of immature non-vital incisors with various treatment modalities by means of three-dimensional quasi-static finite element analysis. *Scientific Reports*. 2023 Oct 15;13(1):17491.
- ALZRAIKAT, Hanan, TAHA, Nessrin Ahmad and HASSOUNEH, Layla Dissolution of a mineral trioxide aggregate sealer in endodontic solvents compared to conventional sealers. *Braz. oral res.*, 2016, vol.30, no.1. ISSN 1806-8324
- Gao Z, Hassouneh L, Yang X, Pang J, Thornton PD, Tronci G. Hydrogen phosphate-mediated acellular biomineralisation within a dual crosslinked hyaluronic acid hydrogel. *European Polymer Journal*. 2021 Jan 15;143:110187.
- Abo-Alazm EA, Abdou A, Hassouneh L, Safy RK. Reliability of an Innovative Slab Shear versus Microtensile Bond Strength Test: Mechanical and Finite Element Analysis. *European Journal of Dentistry*. 2023 Apr 14.
- Al-Qudah A, Afaneh A, Hassouneh L. A Case Report of a Maxillary Second Molar with Two Distinct Palatal Canals, Confirmed by CBCT. *Clinical, Cosmetic and Investigational Dentistry*. 2023 Dec 31:199-203.

## Conferences and Workshops

- The 18th APEC Congress & the 4th Jordanian Endodontic Conference, Amman-Jordan. (April 2015)
- The 2nd International Scientific Conference of the Faculty of Dentistry, JUST. Towards Advancement and Excellence in Dentistry. (May 2014).
- Ruddle on the Road: Jordanian Endodontic Society Conference. (Feb 2012)
- HASSOUNEH, FERRARI, M. & WOOD, D. J. Mechanical evaluation of endodontically treated premolars restored with endocrowns: 3D finite element analysis. Presented at the 20th Scientific Congress of the Asian Pacific Endodontic Confederation (APEC 2019). Istanbul, Turkey.
- HASSOUNEH, FERRARI, M. & WOOD, D. J. Endocrown restorations: A Systematic review of clinical studies. Presented at the British Society for Oral and Dental Research conference (BSODR 2019). Leeds, UK.
- HASSOUNEH, JUM'AH, A. FERRARI, M. & WOOD, D. J. Biomechanical considerations for endocrowns in restoring endodontically treated teeth. Presented at the University of Leeds, Dental School Research Day 2019
- HASSOUNEH, JUM'AH, A. FERRARI, M. & WOOD, D. J. Mechanical behaviour and fitting accuracy of endocrowns using different CAD/CAM materials. Oral presentation at the Bragg PhD Colloquium, University of Leeds 2021
- 20th European Society of Endodontology (ESE) biennial congress (Sep 07 - 10, 2021), Budapest, Hungary.

## References

Name	Institute	Contact
Prof. Nessrin A. Taha	Jordan University of Science and Technology	<a href="mailto:n.taha@just.edu.jo">n.taha@just.edu.jo</a>
Assoc. Prof. Hanan J. Alzraikat	Jordan University of Science and Technology	<a href="mailto:hjsa@just.edu.jo">hjsa@just.edu.jo</a>
Assoc. Prof. Ahmad A Jum'ah	Jordan University of Science and Technology	<a href="mailto:aajuma@just.edu.jo">aajuma@just.edu.jo</a>