Sumaya Mabrouk Abusrewil

Registered dentist, Libyan Dental Syndicate, Libya.

A member of teaching staff, University of Tripoli, Tripoli, Libya.

Personal Statement

I am a qualified, skilled and caring endodontist, who enjoys providing root canal treatment to the highest standards. I am also an endodontic researcher with interdisciplinary research interests, focusing on understanding endodontic microbial biofilms and how interkingdom interactions modify microbial tolerance against novel antimicrobials. I have a special interest towards endodontic materials, and how their modification with novel antimicrobials affects material physicochemical, mechanical and biological characteristics. I am particularly Keen to acquire and integrate research knowledge and skills to develop novel strategies in clinical diagnosis and management of endodontic diseases.

Academic Qualification

PhD Dentistry (Community Oral Health & Oral Sciences) in Endodontics
University of Glasgow, Glasgow, UK
2019 — 2023
Thesis title: "The endodontic biofilm: effects of chitosan as a novel antimicrobial agent".

The project focuses on developing and optimising an interkingdom endodontic biofilm model comprised of microbial species frequently identified in endodontic infections and to use this model to test the antibiofilm efficacy of calcium silicate cements, used in the management of endodontic diseases, and how modification with chitosan may impact on their antimicrobial, physico-mechanical and biological properties.

MSc (Dent Sci) in Endodontics (Distinction)
University of Glasgow, Glasgow, UK
2015 — 2017
The Master of Science in Endodontics is a qualification specialised in dealing with the cause, diagnosis, prevention and treatment of endodontic diseases to the highest standards. The two-year program incorporates advanced clinical training to develop and extend clinical skills and facilitates continued professional development. It also provides a solid ground in research methodologies.
Dissertation title: "Use of bioceramics in root-end fillings in periradicular surgery".
A literature-based research project that focuses on reviewing the clinical and radiographic outcomes of periradicular surgery when bioceramic root-end filling materials were indicated.

Bachelor of Dental Surgery
University of Tripoli, Tripoli, Libya
2007

Publications

- **Abusrewil, S.**, Scott, J.A., Alqahtani, S.S., Butcher, M.C., Tiba, M., Kumar, C., Mulvihill, D.M, Ramage, G., and McLean, W., 2024. "The Effect of Chitosan Incorporation on Physico-Mechanical and Biological Characteristics of a Calcium Silicate Filling Material". *Dentistry Journal*, 12(4):100.

- Delaney, C., Alapati, S., Alshehri, M., Kubalova, D., Veena, C.L.R., **Abusrewil, S.**, Short, B., Bradshaw, D. and Brown, J.L., 2023. Investigating the role of Candida albicans as a universal substrate for oral bacteria using a transcriptomic approach: implications for interkingdom biofilm control?. *APMIS*.

- **Abusrewil, S.**, Brown, J.L., Delaney, C., Butcher, M.C., Tiba, M., Scott, J.A., Ramage, G. and McLean, W., 2021. Chitosan enhances the anti-Biofilm activity of Biodentine against an interkingdom biofilm model. *Antibiotics*, 10(11):1317.

- **Abusrewil, S.**, Brown, J.L., Delaney, C.D., Butcher, M.C., Kean, R., Gamal, D., Scott, J.A., McLean, W. and Ramage, G., 2020. Filling the void: an optimized polymicrobial interkingdom biofilm model for assessing novel antimicrobial agents in endodontic infection. *Microorganisms*, 8(12):1988.

- **Abusrewil, S.**, Alshanta, O.A., Albashaireh, K., Alqahtani, S., Nile, C.J., Scott, J.A. and McLean, W., 2020. Detection, treatment and prevention of endodontic biofilm infections: what's new in 2020?. *Critical Reviews in Microbiology*, 46(2), pp.194-212.

- **Abusrewil, S.M.**, McLean, W. and Scott, J.A., 2018. The use of Bioceramics as root-end filling materials in periradicular surgery: A literature review. *The Saudi Dental Journal*, 30(4), pp.273-282.