

# Curriculum Vitae

## Personal Information:

**Name:** Mohannad Nassar

**Address:** Preventive and Restorative Dentistry Department, College of Dental Medicine, University of Sharjah, Sharjah, United Arab Emirates (UAE)

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Google Scholar profile link <https://scholar.google.com/citations?user=Mdje1skAAAAJ&hl=en>

## Academic Certification:

2011-2015     **Ph.D.** in Dental Sciences (Major: Cariology and Operative Dentistry), Tokyo Medical and Dental University, Tokyo, Japan. *Thesis title:* Overcoming the Adverse Effects Related to the Use of Smear Layer Removal Agents: Phosphoric Acid as Etchant and EDTA as Chelating Agent

2006-2009     **M.Sc.** in Endodontics (Master degree of Science in Dental Surgery with a specialization in Endodontics), Jordan University of Science and Technology, Irbid, Jordan. *Thesis title:* An Evaluation of the Bond Strength of Epiphany Sealer to Dentine Treated with Different Irrigation Regimens

2000-2005     **B.D.S** (Bachelor of Dental Surgery), The University of Jordan, Amman, Jordan

## Work Experience:

01/09/2019- *Present*     Visiting Assistant Professor, Preventive and Restorative Dentistry Department, College of Dental Medicine, University of Sharjah, Sharjah, UAE

15/08/2016- 24/08/2019     Assistant Professor, RAK College of Dental Sciences,

RAK Medical and Health Sciences University, RAK,  
UAE. Department: Endodontics and Operative Dentistry

- 24/01/2017- 24/08/2019 Endodontist and Clinic Manager (09/2018), The Medical Center at RAK College of Dental Sciences (JCI-certified)
- 16/01/2017- 07/01/2018 Clinical Coordinator at RAK College of Dental Sciences
- 06/2016- 08/2016 Visiting Assistant Professor, Dental School, University of Brescia, Brescia, Italy
- 04/2015- 03/2016 Postdoctoral Fellow, the Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University, Tokyo, Japan
- 07/2014- 09/2014 Intern, Applied Oral Sciences Department, Forsyth Institute (affiliation with Harvard Medical School), Cambridge, MA, USA
- 2013-2014, 2011-2012 Preclinical Training Course Instructor, Operative and Cariology, Tokyo Medical and Dental University, Tokyo, Japan
- 10/2010- 03/2011 Researcher, Cariology and Operative Dentistry Department at Tokyo Medical and Dental University, Tokyo, Japan
- 01/2008- 01/2009 Teaching Assistant, Department of Conservative Dentistry, Dental Faculty of Jordan University of Science and Technology, Irbid, Jordan
- 02/2006- 03/2010 Dentist, Amman, Jordan
- 07/2005- 01/2006 Intern, Dental and Medical Clinics at the Ministry of Health, Jordan

## **Awards and Honors:**

-The 2019 IADR/UAE Section Candidate for the Unilever Hatton Divisional Award at the IADR 97<sup>th</sup> General Session and Exhibition, Vancouver, Canada, June 19-22, 2019

-Assessor, oral presentations at the 15<sup>th</sup> Students' Scientific Conference, College of Dentistry, Ajman University, April 27<sup>th</sup>, 2019

-Judge, poster session at AEEDC Dubai, February 5-7, 2019

-RAKCODS Team Supervisor at the Student Competition Award at AEEDC 2019. Team ranked 4 out of 19

-Young Researcher Award Final Round Candidate of AEEDC Dubai, February 6-8, 2018

-Young Researcher Award Final Round Candidate of AEEDC Dubai, February 7-9, 2017

-RAKCODS Team Supervisor at the Student Competition Award at AEEDC 2018. Team ranked 3 out of 9

-The 2014 IADR/Unilever Hatton Divisional Award at the IADR 92nd General Session and Exhibition, Cape Town, South Africa, June 25-28, 2014

-Member of the Global Center of Excellence (GCOE) Program; International Research Center for Molecular Science in Tooth and Bone Disease at Tokyo Medical and Dental University, Tokyo, Japan

-Alumnus in the Global Leadership Program (GLP) at the Department of Global Health Policy Graduate School of Medicine, Tokyo University, Tokyo, Japan

-Japanese Government Scholarship (MEXT) for Ph.D. in Dental Sciences at Tokyo Medical and Dental University, Tokyo, Japan

## **Professional Activities and Ongoing Research Projects:**

- Manuscript reviewer: Archives of Oral Biology, Scanning, and European Endodontic Journal
- Councilor at the IADR/UAE section
- PhD students' co-supervisor at Tokyo Medical and Dental University
- Co-investigator in the grant entitled "The antimicrobial effect of phytic acid on Endodontic Pathogens" supported by MBRU from 05-2019 to 05-2021
- The toxicity of arsenic on pulpal cells
- The teaching of direct intraoral composite resin restoration repair in the MENA region

## **Publications:**

- Nassar M**, Hiraishi N, Tamura Y, Otsuki M, Aoki K, Tagami J. Phytic acid: An alternative root canal chelating agent. *Journal of Endodontics*, 2015; 41 (2): 242-7
- Nassar M**, Hiraishi N, Shimokawa H, Tamura Y, Otsuki M, Kasugai S, Ohya K, Tagami J. The inhibition effect of non-protein thiols on dentinal matrix metalloproteinase activity and HEMA cytotoxicity. *Journal of Dentistry*, 2014; 42 (3): 312-8
- Nassar M**, Hiraishi N, Islam MS, Tamura Y, Otsuki M, Kasugai S, Ohya K, Tagami J, Tay F. The effect of glutathione on 2-hydroxyethylmethacrylate cytotoxicity and on resin-dentine bond strength. *International Endodontic Journal*, 2014; 47 (7): 652-8
- Nassar M**, Hiraishi N, Islam MS, Otsuki M, Tagami J. Age-related changes in salivary biomarkers. *Journal of Dental Sciences*, 2014; 9 (1): 85-90
- Nassar M**, Hiraishi N, Islam MS, Aizawa M, Tamura Y, Otsuki M, Kasugai S, Ohya K, Tagami J. Effect of phytic acid used as etchant on bond strength, smear layer, and pulpal cells. *European Journal of Oral Sciences*, 2013; 121 (5): 482-7

-Nassar R, **Nassar M**. Antimicrobial effect of phytic acid on *Enterococcus faecalis*. *The International Arabic Journal of Antimicrobial Agents*, 2017; 6 (4:1): 1-7

-**Nassar M**, Awadeh L, Jamleh A, Sadr A, Tagami J. Adhesion of epiphany self-etch sealer to dentin treated with intracanal irrigating solutions. *Journal of Endodontics*, 2011; 37 (2): 228-30

-Kong K, Hiraishi N, **Nassar M**, Otsuki M, Yiu CK, Tagami J. Effect of phytic acid etchant on resin-dentin bonding: Monomer penetration and stability of dentin collagen. *Journal of Prosthodontic Research*, 2017; 61 (3): 251-258

-Kong K, Islam MS, **Nassar M**, Hiraishi N, Otsuki M, Yiu CKY, Tagami J. Effect of phytic acid etchant on the structural stability of demineralized dentine and dentine bonding. *Journal of the Mechanical Behavior of Biomedical Materials*, 2015; 48: 145-152

-Jamleh A, Komabayashi T, Ebihara A, **Nassar M**, Watanabe S, Yoshioka T. Root surface strain during canal shaping and its influence on apical microcracks development: a preliminary investigation. *International Endodontic Journal*, 2015; 48 (12): 1103-11

-Islam MS, Hiraishi N, **Nassar M**, Otsuki M, Tagami J. Effect of hesperidin incorporation into a self-etching primer on durability of dentin bond. *Dental Materials*, 2014; 30 (11): 1205-12

-Islam MS, Hiraishi N, **Nassar M**, Yiu C, Otsuki M, Tagami J. Effect of natural cross-linkers incorporation in a self-etching primer on dentine bond strength. *Journal of Dentistry*, 2012; 40 (12): 1052-9

-Islam MS, Hiraishi N, **Nassar M**, Ryohei S, Otsuki M Tsutomu T, Yiu C, Tagami J. In vitro Effect of Hesperidin on Root Dentin Collagen and de/remineralization. *Dental Materials Journal* 2012; 31 (3): 362-7

-Bartoli M, Tonin R, Forgione D, **Nassar M**. The influence of Ultrasonicated Obturation on the Depth of Sealer Penetration into Dentinal Tubules: A Conofocal Microscopic Study and Digital Image Processing. [Under review]

-Nassar R, **Nassar M**, Senok A. Contact time of Several Concentrations of Phytic Acid Required to Eliminate *Enterococcus Faecalis*. [Under review]

-Nassar M, Islam MS, Hiraishi N, Tagami J. Phytic Acid Effect on the Bond Strength to Sodium Hypochlorite Treated Dentin. [Under review]

-Nassar M, Hasan N, Al-Khazraji A, Islam MS, Rahman MM. The pH of Beverages in the United Arab Emirates. [Under review]

## **Lectures and Conferences (Speaker/Poster Presentation):**

-Invited speaker at the AKMG, CDE program “Advances and Updates in Dental Practice”, Ras Al Khaimah, September, 13-14 2019. Lecture title: Bleaching of Natural Teeth

-Innovation Arabia 12, Hamdan Bin Mohammed Smart University (HBMSU), Dubai World Trade Center, February, 25-27 2019

-Invited speaker for the country representative lecture at the 9th World Endodontic Congress (IFEA, 23-26/05/2013, Tokyo, Japan). Lecture title: Reactions between Clinically Used Irrigation Solutions and the Effect on Root Canal Treatment. <http://www.caendo.ca/endodontists/resources/2nd-announcement-WEC2013.pdf>

-Invited speaker at the 1st Fujairah International Dental Conference (UAE, 15-16/11/2012). Lecture title: HEMA in Dental Adhesives <http://www.moh.gov.ae/en/Highlights/Documents/Fujairah%20International%20Dental%20Conference.pdf>

-Global Unilever Hatton Award Competitor and Poster Presentation at the IADR 92<sup>nd</sup> General Session and Exhibition, Cape Town, South Africa, June 25-28, 2014. Phytic Acid: An Alternative Root Canal Chelating Agent. <https://iadr.confex.com/iadr/14iags/webprogram/Paper187989.html>

-Poster presentation at the 5th International Congress on Adhesive Dentistry (IAD), Philadelphia 14-15/6/2013. Non-protein Thiols Inhibit MMPs and HEMA Toxicity. [http://www.dental.upenn.edu/pdf/iad/IAD\\_090.pdf](http://www.dental.upenn.edu/pdf/iad/IAD_090.pdf)

-Oral presentation International Association for Dental Research (IADR/AADR 91<sup>st</sup>), Seattle, 20-23/3/2013. Glutathione Detoxification of 2-hydroxyethylmethacrylate and its Effect on Bond Strength. <https://iadr.confex.com/iadr/13iags/webprogram/Paper173243.html>

-Poster presentation at the Japanese Society of Conservative Dentistry Meeting [Hozzon Gakkai], (Hiroshima, Japan 22-23/11/2012). Age-Related Changes in Saliva and their Effect on Root Caries

-Oral presentation at the Adhesive Dentistry (Tokyo Japan, 07/12/2012). The Influence of Phytic Acid Used as an Etchant on Resin-Dentin Bond Strength

-Poster presentation in the 25th International Medical Convention of the National Arab American Medical Association (NAAMA) held in Jordan/Amman (26/06/2011). Effect of MTAD Irrigation of the Bonding of a Resin-Based Sealer

-Presenter at the TM's 1st World Dental Online Conference 13-15/08/2013. organizer: target meeting

### **Selected Courses, Workshops and Symposiums:**

-Pulp Therapy and Dental Traumatology, Symposium of the Emirates Endodontic Society (EES) and Emirates Pediatric Dentistry Club (EPDC), at MBRU, May 3-4 2019

-Gingival Recession and Defects: Characteristics and Treatment Modalities from Basic to Advance. University of Sharjah, October/2018

-Dentistry Now and Beyond. RAK College of Dental Sciences, October/2018.

-Infection Control. Radiant Sky Training Center, April/2018

-Updates on Dental Techniques. Medecon International Events and AKMG Emirates, May/2018

-Recent Advances in Obturation of Root Canal System. MBHDUC, September/2017

-Lasers in Dentistry. Gulf Medical University, December/2017

-Basic Life Support. Radiant Sky Training Center, February/2017

-MCQs writing. Center of Educational Development and Research (CEDAR),

RAKMHSU, 11/2016

-Acute Critical Care: Cardiovascular Center Conference. Sheikh Khalifa Specialty Hospital, 12/2017

## **Memberships and Licenses:**

-Member of the Emirates Medical Association (EMA): Endodontist

-Member of the Jordanian Dental Association

-Ministry of Health (MOH), UAE, Endodontic Specialist License

-Member of the International Association of Dental Research (IADR), pulp therapy and regeneration and dental materials groups and IADR/UAE section