



CONTACT

UAE

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Languages:
Arabic - English - Spanish

SKILLS

PROFESSIONAL

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|-----------------------|---|---|---|---|---|---|
| IBM SPSS | ● | ● | ● | ● | ● | ● |
| Stargraphics | ● | ● | ● | ● | ● | ● |
| GraphPad Prism | ● | ● | ● | ● | ● | ● |
| Carestream 3D Imaging | ● | ● | ● | ● | ● | ● |
| NRecon-Bruker microCT | ● | ● | ● | ● | ● | ● |
| CTAn-Bruker microCT | ● | ● | ● | ● | ● | ● |
| Blue Sky Plan | ● | ● | ● | ● | ● | ● |
| AutoCad | ● | ● | ● | ● | ● | ● |

LINKS

Only ESE Specialist Member for United Arab Emirates

<https://www.e-s-e.eu/about-the-e-se/specialist-members.php?action=show&id=AE>

ResearchGate

https://www.researchgate.net/profile/Firas_Elmsmari/

Instagram

<https://www.instagram.com/endo.elmsmari/>

Firas Elmsmari

Endodontic Specialist

Dr Firas Elmsmari obtained his Doctor of Dental Surgery Bachelor's Degree (DDS) from Ajman University, UAE in 2012. Afterwards, he began working as clinical instructor in Endodontic 4th and comprehensive 5th year clinics in Ajman University, UAE between 2013 to 2016. Dr Elmsmari completed his masters in the International University of Catalonia, Barcelona, Spain in 2019, obtaining the title of European Master's Degree in Endodontics, as one the few programs recognized by the European Society of Endodontology (ESE). Subsequently he worked as a clinical instructor and assistant lecturer in the European Master's Degree in Endodontics between 2019 to 2020. In 2020 he became a Specialist Member of the European Society of Endodontology (ESE), one the few residing in the UAE. He obtained the title of Doctorate in Health Sciences (PhD) in Endodontics with distinction from the International University of Catalonia and the University of Barcelona in 2021, culminating in the procurement of a European product patent and a winning several grants by the European Regional Development Fund. Dr Elmsmari has several publications in Endodontic journals with the highest impact factor and is a devoted researcher in the field of Endodontics with special focus on vital pulp therapy and the application of nanoparticles in Endodontics as an innovative drug delivery system.

EDUCATION

● Doctor of Dental Surgery Bachelor's Degree (DDS)

September-2007 / June-2012

Ajman University - Faculty of Dentistry - Ajman (3rd on my batch)

Thesis title "Shear bond strength of resin composite to rotary and Er:YAG Laser prepared enamel."

● Comprehensive rotary internship in Dentistry

September-2012 / September-2013

Ajman University - Faculty of Dentistry - Ajman

● European Master in Endodontics (MSc)

September-2016 / July-2019

Universitat Internacional de Catalunya (UIC) - Faculty of Dentistry - Sant Cugat del Valles, Barcelona

Thesis title "Clobetasol loaded biodegradable nanoparticles: A novel approach in the management of avulsed teeth with extended extra oral time."

● Doctorate in Health Sciences (PhD)

January-2019 / May-2021

Universitat Internacional de Catalunya (UIC) - Doctoral school and Faculty of Dentistry (Department of Endodontics and Bioengineering Institute of technology) Sant Cugat del Valles, Barcelona & University of Barcelona (UB) - Faculty of Pharmacy (Department of Pharmacy and Pharmaceutical Technology and Physical Chemistry) - Barcelona

Thesis title "Nanoparticles: The next step in endodontics medicaments"

EXPERIENCE

● Clinical instructor and tutor

September-2013 / June-2016

Ajman University - Faculty of Dentistry - Ajman

Clinical supervision and instruction for 4th, 5th year undergraduate students in Clinical Endodontics I & II. Plus, clinical supervision and instruction for postgraduate students in their comprehensive rotary internship training with focus on different Endodontic procedures. Clinical experience includes:

- Primary and Secondary Root Canal Therapy (RCT) for all kinds of teeth with all degrees of difficulty
- Vital pulp therapy modalities (VPT) which include in/direct pulp capping and full/partial pulpotomy
- Fixed Prosthodontics (PFM Crowns and Bridges, Direct and Indirect Veneers)
- Esthetic Anterior Composite Restorations
- Mild to Moderate Extraction Cases
- Periodontal Therapy and Maintenance

● Private practice - Conservative Dentistry and Endodontics

April-2015 / April-2016

Mamzar Smiles Specialty Centre - Dubai

EXPERIENCE

● Clinical instructor & Assistant lecturer in the European Master's Degree in Endodontics

September 2019 / July 2020

Universitat Internacional de Catalunya (UIC) - Faculty of Dentistry - Sant Cugat del Valles, Barcelona

Clinical instructor and an assistant lecturer in theoretical seminars in the European Master in Endodontics. Plus, assisting and guiding undergraduate students in preclinical and clinical Endodontic. Tasks involved:

- Provide students with in-depth knowledge of the scientific literature in order for them to apply it in the practice of endodontics.
- Provide the student with diagnostic and clinical skills in all types of nonsurgical and surgical cases which include, primary and secondary root canal treatments, vital pulp therapy, direct and indirect reconstruction, follow ups, endodontic evaluation appointments, intentional replantation, apical surgeries, root amputation and autotransplantation, that will result in proficient skills in the practice of endodontics.
- Present and discuss their clinical cases with the faculty and peers.
- Educate the student in the basics of research methodology, biostatistics, and data analysis, in order to complete a research project of publishable quality.
- Prepare the students to critically evaluate the literature.
- Work with new instruments and techniques.
- Supervision of Master thesis research program for the students of the European Master in Endodontics

● Pre-clinical and clinical tutor (part time)

November 2020 / Present

University of Sharjah - College of Dental Medicine - Sharjah

Supervision and tutoring of 3rd year students in the operative dentistry and endodontics preclinical labs. Plus, clinical supervision and instruction for 5th years students in comprehensive clinics that include:

- Primary Root Canal Therapy (RCT) for different kinds of teeth with varying degrees of difficulty
- Vital pulp therapy modalities (VPT) which include in/direct pulp capping and full/partial pulpotomy
- Fixed Prosthodontics (PFM Crowns and Bridges, Direct and Indirect Veneers)
- Esthetic Anterior Composite Restorations
- Mild to Moderate Extraction Cases
- Periodontal Therapy and Maintenance

● Assistant Professor (Full time)

August 2021 / Present

Ajman University - College of Dentistry

Supervision and teaching 3rd year students in the Endodontics preclinical theory and labs. Plus, clinical supervision and instruction for 4th and 5th years students in Endodontics and comprehensive clinics. Teaching postgraduate Endodontic master students in theoretical seminars and clinical sessions, tasks include:

- Provide students with in-depth knowledge of the scientific literature in order for them to apply it in the practice of endodontics.
- Provide the student with diagnostic and clinical skills in all types of nonsurgical and surgical cases which include, primary and secondary root canal treatments, vital pulp therapy, direct and indirect reconstruction, follow ups, endodontic evaluation appointments, intentional replantation, apical surgeries, root amputation and autotransplantation, that will result in proficient skills in the practice of endodontics.
- Present and discuss their clinical cases with the faculty and peers.
- Educate the student in the basics of research methodology, biostatistics, and data analysis, in order to complete a research project of publishable quality.
- Prepare the students to critically evaluate the literature.
- Work with new instruments and techniques.
- Supervision of Master thesis research program for the students of the European Master in Endodontics

CERTIFICATIONS AND LICENSES

- **Part I National Dental Board Exam (American Dental Association)**
NY, USA / August 2014
- **Dubai Health Authority License (DHA)**
Dubai, UAE / February 2015
- **Part II National Dental Board Exam (American Dental Association)**
NY, USA / August 2015
- **Ministry of Health dental licence (MOH)**
Sharjah, UAE / February 2016
- **Member of the Spanish Society of Endodontics (AEDE)**
Barcelona, Spain / August 2017
- **Bruker Micro-CT User Training**
Antwerp, Belgium / June 2018
Bruker-microCT training platform for new and experienced users. Offers a combination of both system and software training and covers three major topics: image acquisition, image reconstruction and data analysis.
- **Research methodology I & II (Universitat Internacional de Catalunya)**
Barcelona, Spain / February 2019
- **Specialist Member of the European Society of Endodontology (ESE) (Only member located in the UAE)**
March 2020 - Link: <https://www.e-s-e.eu/about-the-e-se/specialist-members.php?action=show&id=AE>
To obtain the status of "specialist member" of the ESE, members need to provide documentation that they have certain skills/knowledge and/or training in Endodontology. In addition, to become a specialist member you must be an individual member of one of the ESE membersocieties.

PUBLICATIONS

- **Shear Bond Strength of Resin Composite to Rotary and Er:YAG Laser-Prepared Enamel.**
Abdul rahamn Saleh, Shatha Salih, Muthenna Rajab, **Firas Elmsmari**, Omer I. Abdulaziz and Danyal Z. Ahmed
Smile Dental Journal, 2013; 8 (4):26-29.
https://www.researchgate.net/publication/261063698_Shear_Bond_Strength_of_Resin_Composite_to_Rotary_and_ErYAG_Laser-Prepared_Enamel
December 2013
- **Outcome of Partial Pulpotomy in Cariously Exposed Posterior Permanent Teeth: A Systematic Review and Meta-analysis**
Firas Elmsmari, Xavier-Fructuós Ruiz, Queralt Miró, BScNancy Feijoo-Pato, Fernando Durán-Sindreu and Juan Gonzalo Olivieri
Journal of Endodontics, 2019; 45 (11):1296-1306.
[https://www.jendodon.com/article/S0099-2399\(19\)30512-6/abstract](https://www.jendodon.com/article/S0099-2399(19)30512-6/abstract)
September 2019
- **Outcome and Survival of Endodontically Treated Cracked Posterior Permanent Teeth: A Systematic Review and Meta-analysis**
Juan Gonzalo Olivieri, **Firas Elmsmari**, Queralt Miró, Xavier-Fructuós Ruiz, Keith V. Krell, Marc García-Font and Fernando Durán-Sindreu
Journal of Endodontics, 2020; 46 (4):455-463.
[https://www.jendodon.com/article/S0099-2399\(20\)30010-8/abstract](https://www.jendodon.com/article/S0099-2399(20)30010-8/abstract)
February 2020

PUBLICATIONS

- **Management of Dens Invaginatus. Maintaining pulp vitality: the resolution of a case.**
João Nuno Prina, **Firas Elmsmari** and Jose Antonio Gonzalez
Soluciones clínicas en odontología (SCO), 2020; 17: 26-32.
https://www.researchgate.net/publication/347986749_Manejo_de_Dens_Invaginatus_Manteniendo_la_vitalidad_pulpar_a_proposito_de_un_caso
October 2020
- **Micro-computed Tomographic Assessment and Comparative Study of the Shaping Ability in Six NiTi files- An In Vitro Study**
María de las Nieves Pérez Morales, José Antonio González Sánchez, Juan Gonzalo Olivieri, **Firas Elmsmari**, Phil Salmon, David E. Jaramillo, Fernando Durán-Sindre Terol.
Journal of Endodontics.
[https://www.jendodon.com/article/S0099-2399\(21\)00070-4/abstract](https://www.jendodon.com/article/S0099-2399(21)00070-4/abstract)
February 2021
- **Calcium hydroxide loaded PLGA biodegradable nanoparticles as an intracanal antibacterial medicament**
Firas Elmsmari, José Antonio González Sánchez, Fernando Duran-Sindreu, Roumaissa Belkadi, Marta Espina, Maria Luisa García and Elena Sánchez-López
International Endodontic Journal.
<https://onlinelibrary.wiley.com/doi/abs/10.1111/iej.13603>
August 2021

AWARDS AND GRANTS

- **Winner of the european grant given by the European Regional Development Fund / Agencia de Gestió d'ajuts Universitaris Investigació (AGAUR)**
January 2019
PhD project entitled "*Nanoparticles: the next step in endodontics medicaments*." Winner of the grant Agencia de Gestió d'ajuts Universitaris Investigació (AGAUR) given by European Regional Development Fund Fons Europeu de Desenvolupament Regional (FEDER).
- **Winner of the Journal of Endodontics Annual Awards Presented During the American Association of Endodontists (AAE) Annual Meeting (USA)**
March 2020
Winner of the Journal of Endodontics Awards in the category of Systematic and Scoping Reviews as the best systematic review of the year presented in the American Association of Endodontists 2020 annual meeting for the systematic review "*Outcome of Partial Pulpotomy in Cariously Exposed Posterior Permanent Teeth: A Systematic Review and Meta-analysis*." published in september 2019 in the Journal of Endodontics
- **Winner of the valorization projects grant presented by the Universitat Internacional de Catalunya (UIC) Barcelona**
January 2021
PhD project entitled "*Nanoparticles: the next step in endodontics medicaments*." was elected as a winner of the valorization projects grant presented by the European Regional Development Fund "Fondo Europeo de Desarrollo Regional (FEDER)" through Universitat Internacional de Catalunya
- **Journal of Endodontics Annual Awards Presented During the American Association of Endodontists (AAE) Annual Meeting (USA)**
March 2021
Article entitled "*Outcome and Survival of Endodontically Treated Cracked Posterior Permanent Teeth: A Systematic Review and Meta-analysis*." published in february 2020 in the Journal of Endodontics was selected as an honourable mention in the category of Systematic and Scoping Reviews of the year in the the Journal of Endodontics awards presented in the American Association of Endodontists 2021 annual meeting

PATENTS

- **European patent for the product entitled “Composition comprising nanoparticles, method for the preparation of a composition comprising nanoparticles and uses of the composition for dental treatment.”**
Patent number (#EP20382504)
June 2020
The present invention relates to a composition, in particular for antibacterial dental treatment, comprising polymeric nanoparticles. The invention also relates to a method for the preparation of such composition and uses of the composition for dental treatment, in particular for an endodontic treatment.
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CONFERENCES PARTICIPATION

- Presenter of Clinical oral communication entitled “Orthograde Root Canal Retreatment For Severly Curved Upper Maxillary First Molar” at the **Congress ORALTHBCN 2017** in Barcelona – Spain (May 2017)
 - Attendee at the **European Society of Endodontology 18th Biennial Congress** held in Brussels - Belgium (September 2017)
 - Presenter of Clinical oral communication entitled “Retreatment of a maxillary first molar with severe curvatures” at the **AEDE (Spanish Society of Endodontics) 38th National Endodontic Congress** in A Coruña – Spain (November 2017)
 - Presenter of Clinical oral communication entitled “Autotransplantation and Radix entomolaris: A multidisciplinary approach” at the **AEDE (Spanish Society of Endodontics) 39th National Endodontic Congress** in Malaga – Spain (November 2018).
 - Presenter of Clinical investigation entitled “Retreatment of bioceramic sealers: an invitro study” at the **Viernes Endodoncia of the Master in Endodontics of University of Valencia** Valencia – Spain (November 2018).
 - Attendee at the **AEDE (Spanish Society of Endodontics) 40th National Endodontic Congress** in Valencia – Spain (November 2019).
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