

# CV

## Curriculum Vitae

### Personal Data:

**Name:** Omar Abdelaziz Ismail

**Date of Birth:** 1<sup>st</sup> July 1987

**Nationality:** Egyptian

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**ORCID:** 0000-0001-7819-4018

**Languages:** Arabic: Native  
English: Fluent

**Current job:** Lecturer of Operative Dentistry. **Horus University, Egypt**

### CV Summary:

Dr. Omar Abdelaziz Ismail is a member of the adhesive group of Turku, Finland. He is a Restorative and Aesthetic Dentistry Lecturer at Horus University in Egypt. He also owns Pioneers Dental Clinics, a private clinic in Egypt.

He graduated from Tanta University in 2009 and finished his master of conservative dentistry at the same university in 2018. He is also a member of the International Association of Orthodontics, USA.

He is an active clinical researcher at Cairo University, Egypt where he finished his first PhD in 2024 and has registered many clinical trials in collaboration with the conservative dentistry department. He is a speaker at many national and international conferences, especially IADR conferences in Europe and all over the globe.

His membership in the adhesive group of Turku, Finland where he is studying his second PhD under the supervision of Professor Dr. Arzu Mutluay-Tezvergil, allowed him to master many laboratory tests like micro tensile bond strength, nano leakage, etc., and published his scientific work in very prestigious journals. At present, he is involved in many research studies on the improvement of adhesives' biodegradation resistance.

His 10 years teaching experience in Horus University and 15 years clinical experience guided him to be an inspiring lecturer.



# CV

## Educational Qualifications:

(2021-present) **PhD candidate**, Cariology and Restorative Dentistry. **The University of Turku, Finland**

(2020-2024) **PhD** in Restorative and Aesthetic Dentistry. **Cairo University, Egypt**

(2013-2018) **Master degree** in Conservative Dentistry (Restorative division). **Tanta University, Egypt**

(2005-2009) **Bachelor Degree** of Dental Medicine and Surgery. Very Good. **Tanta University, Egypt**. Ranking 23 out of 320 graduates

## Working and Academic Experience:

(2024-present) Lecturer/ Department of Operative Dentistry, Horus University, Egypt

(2018-2024) Assistant Lecturer/ Department of Restorative Dentistry, Horus University, Egypt

(2017-2018) Demonstrator/ Department of Restorative Dentistry, Horus University, Egypt

(2010-2017) Dentist at ministry of health and population hospitals, Egypt

(2010-present) Owner and operator at Pioneers Dental clinics, Egypt

## Teaching Experience:

(Summer, Fall 2024) Course Director Preclinical Operative III. Department of Conservative Dentistry, Horus University, Egypt.

(Summer, Fall 2024) Course coordinator Preclinical Operative IV. Department of Conservative Dentistry, Horus University, Egypt.

(Fall 2024) Course Coordinator Clinical Operative I. Department of Conservative Dentistry, Horus University, Egypt.

(2021-present) Clinical Instructor in CCC Internship Programme. Horus University, Egypt.

(March 2021) Instructor LTOH1501 Journal Club Teaching and Supervising, University of Turku, Finland.

(2019-2024) Clinical Instructor in the course of clinical operative dentistry I, II, III, IV. Department of Conservative Dentistry, Horus University, Egypt.

(2017-2024) Instructor in the course of preclinical operative dentistry I, II, III, IV. Department of Conservative Dentistry, Horus University, Egypt.

# CV

## **RESEARCH EXPERIENCE**

**(2020- present) working with Cariology and Restorative Dentistry Department team, The University of Turku. Finland.**

We have made a break through testing clinically the effect of 1% DMSO dentin pre-treatment Prior to a Two-step Etch and Rinse Adhesive.

It should be mentioned that the clinical trial is registered in Cochrane Library as the first clinical trial that tested the effect of DMSO intra orally.

Also, it should be mentioned that We are the first group to manage bonding pure hydrophobic resins to dry dentin without collapse even after aging which will help the patients maintain their restorations for a much longer time. I offered the right to the invention to the University of Turku under the reference K/26/2022.

**(2019- 2024) working with Restorative Department team, Cairo University. Egypt**

I just finished a collaborative study between Cairo University and University of Turku in order to evaluate the clinical performance of 1% DMSO dentin pre-treatment Prior to a Two-step Etch and Rinse Adhesive and officially registered our study in Clinicaltrials.gov.

**(2013 - 2018) working with Conservative Department team, Tanta University. Egypt**

Studying the effect of salivary contamination on the marginal adaptation of different types of glass ionomer restorations. "Conventional GIC, Resin-modified GIC, Nano filled resin-modified GIC" in Vitro studies.

As well as, I had helped my colleagues in their researches like adhesive and composite examinations.

## **PUBLICATION LIST**

Omar Abdelaziz Ismail, Thiago Henrique Scarabello Stape, Arzu Tezvergil-Mutluay, **Concentration effect of DMSO-dry bonding on the stability of etch-and-rinse bonds**, Dental Materials, 2023, ISSN 0109-5641, <https://doi.org/10.1016/j.dental.2023.09.013>.

Ismail OA, Hassanein OE, Hafez R, Mamdouh M. **Effect of dimethyl sulfoxide primer application before a two step etch-and-rinse adhesive on the microtensile bond strength and nanoleakage**. J Int Oral Health 2024;16:246-52.  
DOI:10.4103/jioh.jioh\_11\_24

Thiago Henrique Scarabello Stape, Omar Abdelaziz Ismail, Marcelo Capitanio, Arzu Tezvergil-Mutluay. **Bonding neat hydrophobic-rich resins to etched dentin: A proof of concept**. Dental Materials, accepted 11.11.2024

Omar A. Ismail, Mirvat M. Salama, Magda E. Shalaby. **Effect of Salivary Contamination on Marginal Adaptation of Different Types of Glass Ionomer Cements Restorations**. *N Y Sci J* 2017;10(12):43-49

# CV

Omar Abdelaziz Ismail, Olfat Elsayed Hassanien, Randa Hafez, Mai Mamdouh, Arzu Tezvergil-Mutluay, **Three years clinical assessment of low concentration of dimethyl sulfoxide primer in non-carious cervical lesions: Randomized control trial.**

Submitted

## CONFERENCE PUBLICATIONS

(2024 ADM Academy of Dental Materials Meeting. Turin. Italy, 2:5 October) **Long-term bonding of neat hydrophobic-rich resins to dry-etched dentin.**

(2024 CED/NOF-IADR Oral Health Congress, Geneva, Switzerland, 12:14 Sept) **Thirty Months Clinical Evaluation of 10%DMSO Primer in Carious Cervical Lesions. Oral presentation**

(2023 CED/NOF-IADR Oral Health Congress, Rhodes, Greece) **Bonding Neat Hydrophobic Resins to Etched Dentin. IADR Abstract Archives**

(2023 IADR Africa Health ExCon, Cairo, Egypt) **Teeth Guard, "AI application For a Healthy Smile"**

(2022 PER-IADR Oral Health Congress, Marseille, France) **Bonding hydrophobic-rich resins to demineralized-dry dentin using DMSO. IADR Abstract Archives**

(2022 Academy of Dental Materials Meeting, Athens Greece) **DMSO-dry bonding of simplified and multi-step etch-and-rinse adhesives. Dental Materials special edition**

(2022 IADR Egyptian Section, Alexandria, Egypt) **Two Years Clinical Evaluation of Dimethyl-Sulfoxide Application Prior to Etch-Rinse Adhesives. IADR Abstract Archives**

## In progress research work

Omar Abdelaziz Ismail, Ibrahim Elbasha, Thiago Henrique Scarabello Stape, Arzu Tezvergil-Mutluay. **In vivo Clinical Assessment of Dimethyl Sulfoxide in OT Primer Prior to Dental Adhesive: Randomized Controlled Trial. ClinicalTrials.gov ID: NCT05090085**

Omar Abdelaziz Ismail, Thiago Henrique Scarabello Stape, Arzu Tezvergil-Mutluay, **Bonding pure solvated Hydrophobic Resins to Etched Dentin.**

Ibrahim Elbasha, Omar Abdelaziz Ismail, Abdelaziz Elgammal. **Comparative evaluation of antibacterial activity of cavity disinfectant solutions and photo activation.**

Mohammed Awad, Omar Abdelaziz Ismail, Thiago Henrique Scarabello Stape, Arzu Tezvergil-Mutluay. **Concentration effect of chitosan pretreatment on the durability of universal adhesive.**

## Research Grants

2024, NOF Travel grant, 700 € for the participation in (2024 CED/NOF-IADR Oral Health Congress, Geneva, Switzerland)

2024, University of Turku Foundation Travel grant, 700 € for the participation in (2024 Academy of Dental Materials Meeting, Turin, Italy)

# CV

2023, NOF Travel grant, 700 € for the participation in (2023 CED/NOF-IADR Oral Health Congress, Rhodes, Greece)

2022, NOF Travel grant, 500 € for the participation in (2022 PER-IADR Oral Health Congress, Marseille, France)

2022, University of Turku Foundation Travel grant, 600 € for the participation in (2022 Academy of Dental Materials Meeting, Athens Greece)

2022, Nordic Scientists Travel grant, 250 € for the participation in (NYSCO 2022, the 6th meeting of Nordic Young Scientists in Oral Research)

2022, Erasmus EC<sub>2</sub>EU Mobility grant, 1000 \$ for the participation in (Spatial Analysis Course, University of Coimbra, Portugal)

2022, Turku University Foundation, Doctoral researcher grant, 3528 €

2022, FINDOS-tutkimusapuraha (työskentelyapuraha), 2040 €

## ***Patents***

Bonding pure hydrophobic resins to dry dentin. I offered the right to the invention to the University of Turku under the reference K/26/2022.

## ***Participation in Regional & International Conferences***

(2024) Oral presentation **IADR Europe. Geneva, Switzerland.**  
**Session Chair: Substrate and Environment Challenges in Adhesive Dentistry**

(2024) Poster presentation **ADM Academy of Dental Materials Meeting. Turin. Italy,**  
**Paffenbarger poster finalist award.**

(2024) Oral presentation **IADR Egyptian Section. Alexandria, Egypt**

(2024) Speaker at Damietta Dental Syndicate Conference, **Egypt. Don't be hunted by a predator <conference or Journal>**

(2024) Speaker at **EDSIC Cairo, Egypt. Digital Dentistry the past, the present & the future**

(2023) Oral presentation **IADR Europe. Rhodes, Greece**

(2023) Oral presentation **IADR Africa EXCon. Cairo, Egypt**

(2022) 3M Oral presentation **Bio city Student Symposium. Turku, Finland**

(2022) Oral presentation **NYSCO 2022. Aarhus, Denmark**

(2022) Poster presentation **PER- IADR Europe. Marseille, France**

(2022) Poster presentation **Academy of Dental Materials. Athens, Greece**

# CV

(2021) Speaker at IADR general section. Egyptian Division.

(2021) Speaker at journal club for clinical research. **The University of Turku, Finland.**

(2020) Digital Smile Design online workshop speaker. **Horus University Egypt.**

(2019) Attendant Turku Biomaterials Days 24-25 October. **The University of Turku, Finland.**

(2019) Speaker at 34<sup>th</sup> International Conference on Dental and Oral Health held in **Helsinki, Finland.**

## ***Participation in Courses***

(2024) Fundamentals of Digital Transformation Certificate, CLT **Cairo University**

(2022) Advanced Operative Dentistry Teaching Programme, Core Team. **Ain Shams & Delta Universities Egypt.**

(2022) Blended Intensive Programme -Spatial Analysis Course 3 ECTS, **University of Coimbra, Portugal**

(2021) Impact from Research – Making a difference. **Aalto University, Finland**

(2020) Digital Smile Design online workshop. **Horus University Egypt.**

(2020) IELTS Academic Test score 6.5, **British Council, Cairo**

(2019) Operative Department Scientific Day Workshop, **Mansoura University, Egypt**

(2019) Hands on Composite workshop. **Horus University Egypt.**

(2018) Posterior Composite Workshop, **Tanta University, Egypt**

(2017) ICDL International Computer Driving License, **Tanta University, Egypt**

(2017) Advanced English programme, **Tanta University, Egypt**

(2017) Advanced English programme, **Tanta University, Egypt**

(2010, 2011) Advanced Orthodontics Programme, **International Association of Orthodontics, USA**

(2011) Advanced Implant Programme, 120 Ch., **German Board of Implantology.**

## ***Service as Reviewer***

**Guest Editor, Journal of Visualized Experiments**, Q2 Peer reviewed. Multi-disciplinary. Indexed Journal in PubMed and Web of Science.

# CV

**Reviewer, Heliyon**, Q1 Elsevier Peer reviewed journal. Multi-disciplinary. Indexed Journal in PubMed and Web of Science

## **Memberships**

- Member of IADR International Association of Dental Research. Scandinavian & Egyptian Division. Cariology & Dental Materials. (2021/present)
- Member of Academy of Dental Materials (2021/ present)
- Member of NYSCO Nordic Young Scientists in Oral Research (2022/ present)
- Member of Erasmus EC2EU alliance (2022/ present)
- Member of International Association of Orthodontics, USA (2011/ present)

## **KEY SKILLS:**

- Enjoy working as part of a team
- Always willing to learn and update my scientific and clinical knowledge
- Excellent ability in Patient Management, Education and Motivation
- Extremely fast learner
- Leadership qualities
- Forward thinker
- Social Media Advertising (Facebook, Twitter, Instagram) and Marketing skills
- Event Management experience
- I have the will and passion that my researches will change the world

**Portfolio of Clinical cases available on request**

## **References:**

### **Professor Arzu Tezvergil-Mutluay**

DDS, Ph.D. FADM, Specialist in Prosthodontics and Clinical Dentistry  
Professor and Chair, Department of Restorative Dentistry and Cariology  
Institutional Representative for International Affairs  
Adhesive Dentistry Research Group Leader  
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### **Professor Murat Mutluay**

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## **Professor Walaa Mohammed Elsamoly**

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