

Biography

Dr. Marwa Baraka, lecturer of Pediatric Dentistry, Faculty of Dentistry, Alexandria University. I had my BS in 2010, MSc in 2015, and PhD in 2023 from the same university. I worked for six months as an adjunct assistant clinical professor in the Cariology, Restorative, and Endodontics department, School of Dentistry, University of Michigan, Ann Arbor, Michigan, USA. I am a Fulbright Alumni, cohort 2021, and had a non-degree PhD scholarship in the University of Michigan, Ann Arbor. I attained a US- Egypt cooperation grant from Venture Well and STDF and secured funding for my project: Pulp AI and was selected among five teams to have an incubation period in Georgia Tech, Atlanta, Georgia, USA to experience the US ecosystem. I have publications in top Q1 dental journals:

- **2024:** Baraka M, Cevidanes L, Ruellas A, Benavides E, Aly N, Fontana M. Comparison of two CBCT analysis techniques with conventional periapical radiographs in assessment of tertiary dentin after indirect pulp capping in young permanent teeth. *International Journal of Paediatric Dentistry*. 2024.
- **2024:** Baraka MM, Ibrahim YM, Helmy RH. ADHESIVE STRATEGIES FOR RESTORING PRIMARY AND YOUNG PERMANENT DENTITION-A REVIEW. *Alexandria Dental Journal*. 2024 Apr 1;49(1):195-202.
- **2023:** El Tantawi M, Lam WY, Giraudeau N, Virtanen JI, Matanhire C, Chifamba T, Sabbah W, Gomaa N, Al-Maweri SA, Uribe SE, Mohebbi SZ. Teledentistry from research to practice: a tale of nineteen countries. *Frontiers in Oral Health*. 2023 Jun 16;4:1188557.
- **2023:** Baraka, M.M.A.L., Cevidanes, L., Tekeya, M., Bakry, N., Ruellas, A., Botero, T., Benavides, E. and Fontana, M., 2023. Three-Dimensional Assessment of Radiographic Changes after Indirect Pulp Capping Using Silver Diamine Fluoride with or without Potassium Iodide in Young Permanent Teeth (12-Month RCT). *Caries Research*, pp.112.
- **2022:** Baraka M, Tekeya M, Bakry NS, Fontana M. Twelve-month randomized controlled trial of 38% silver diamine fluoride with or without potassium iodide in indirect pulp capping of young permanent molars. *J Am Dent Assoc*. 2022;153(12):1121–33.e1.
- **2019:** Poster entitled „Dental Arch Parameters and Goslon Scores in Mixed Dentition of Egyptian Children with Surgically Repaired Unilateral Cleft Lip and Palate” and speaker in “4th Annual Meeting on Pedodontics and Dental Treatment” conference in Montreal, Canada
- **2017:** Baraka M, Hanno A, Bakry N S et al. Transverse Dental Arch Relationship and Occlusion in Surgically Repaired Unilateral Cleft Lip and Palate Egyptian Children. *Med- Clin Res & Rev*.2017;1 (2):1-7.

- **2017:** E-poster entitled “Assessment of Transverse Dental Arch Relationship and Occlusion in Surgically Repaired Unilateral Cleft Lip and Palate Egyptian Children” published in 25th Euro dentistry congress 2017 in Ireland
- **2016:** An article entitled “Dental Arch Dimensions in Surgically repaired unilateral cleft lip and palate children” published in Alexandria Dental Journal.
- **2015:** Master Thesis Defense “Dental Arch Dimensions in Surgically repaired unilateral cleft lip and palate children” published in Alexandria Dental Journal.
- Co-author in A Compendium on Oral Health of Children around the World: Tooth Eruption and Anomalies of the Dental Hard Tissues.

Grants:

1. Science and Technology Development Fund (STDF) and Venture Well, Egypt-US Cooperation Program: Innovate Egypt Program / International Cooperation Grants, Egypt, Call 3, project number: 49226 “AI-Based Tool for Automatic Segmentation of Dental Pulp After Pulp Therapy and Tissue Regeneration” (principal investigator, PI)
2. ITAC collaborative research fund (PRP), PRP2023.R35.11 - Use of an Artificial Intelligence Model to automatically segment hard and soft dental and paradental tissues from CBCT scans.

Member in IAPD, AAPD and IADR