Stanford

Somayeh H. Ahmad, DDS, Dr. Med. Dent.

Instructor, Surgery - Plastic & Reconstructive Surgery

Bio

BIO

Dr. Somayeh Ahmad is an Instructor in Surgery–Plastic and Reconstructive Surgery at Stanford University School of Medicine. She is a dentist-scientist with clinical training in pediatric dentistry, oral medicine, and translational clinical research. Her work focuses on head and neck cancer and the associated radiation-induced complications (e.g., salivary gland hypofunction and xerostomia) and treatments, including salivary gland gene therapy. At Stanford, she has contributed to multidisciplinary clinical research involving AAV2-hAQP1 gene therapy. Dr. Ahmad completed her residency in pediatric dentistry and Dr. med. dent. (equivalent to DMSc) in preventive dentistry both from the University of Greifswald in Germany. She received her DDS from Ajman University in the UAE.

ACADEMIC APPOINTMENTS

- Instructor, Surgery - Plastic & Reconstructive Surgery

PROFESSIONAL EDUCATION

- Postdoctoral Training:, Stanford University School of Medicine , Conducted multidisciplinary clinical and translational research in oral medicine, maxillofacial surgery, dental oncology, salivary gland disorders, and oral mucosal immunology. (2021)
- Dr. Med. Dent.:, University of Greifswald School of Dentistry , Doctoral Dissertation in Pediatric and Preventive Dentistry (2015)
- Research Assistant, University of Greifswald School of Medicine , Genomics and Proteiomics: supported saliva-proteomics studies through laboratory preparation, data management, and post-processing of mass-spectrometry data. (2015)
- Residency:, University of Greifswald School of Dentistry , Pediatric Dentistry (2015)
- Dental Education:, Ajman University , Doctor of Dental Surgery (DDS), Dentistry (2010)

COMMUNITY AND INTERNATIONAL WORK

- Volunteer Dentist – Refugee Children’s Oral Health Screening, Greifswald, Germany
- Pediatric Oral-Health Research and Community Outreach., UAE
- null

Research & Scholarship

RESEARCH INTERESTS

- Artificial intelligence (AI)
- Child and Adolescent Development
- Data Science
- Early Childhood Education & Development
- Mental Health

- Parenting
- Special Education & Disability Studies

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Ahmad's experience includes clinical-research managment, participant education, protocol implementation, clinical data management. Her research skills include saliva and clinical-specimen workflows, proteomic sample preparation, mass-spectrometry data post-processing, imaging mass cytometry, and multiomic research methods.

CLINICAL TRIALS

- A Phase 1 Open-Label, Dose Escalation Study to Determine the Optimal Dose, Safety, and Activity of AAV2hAQP1 in Subjects With Radiation-Induced Parotid Gland Hypofunction and Xerostomia, Not Recruiting

PROJECTS

- Salivary-gland gene therapy
- Tumor immune microenvironment in oral cavity squamous cell carcinoma - Stanford University School Of Medicine
- Specimen collection for evaluation and prediction of operative outcomes - Stanford University School Of Medicine
- Adherence to prehabilitation before major surgery: randomized controlled trial - Stanford University School Of Medicine
- Pediatric oral-health epidemiology

Publications

PUBLICATIONS

- **Dental Composite Offers Comparable or Greater Pullout and Shear Strength to Lateral Mass Screw Fixation in a Human Cadaveric Model.** *International journal of spine surgery*
  Wadhwa, H., Castro, J., Okoli, O., Chan, C., Ahmad, S. H., Karnowska, A., Hu, S. S., Koltsov, J. C., Bruckman, K. C., Mok, J. M.
  2026
- **Dental Cement Augmentation Increases Pullout Strength with Comparable Removal Torque for Lateral Mass Screws.** *Spine*
  Castro, J., Wadhwa, H., Okoli, O., Chan, C., Ahmad, S. H., Karnowska, A., Hu, S., Koltsov, J., Bruckman, K., Mok, J.
  2025
- **Towards multiomic analysis of oral mucosal pathologies.** *Seminars in immunopathology*
  Einhaus, J., Han, X., Feyaerts, D., Sunwoo, J., Gaudilliere, B., Ahmad, S. H., Aghaeepour, N., Bruckman, K., Ojcius, D., Schurch, C. M., Gaudilliere, D. K.
  2023
- **Prevalence of Molar-Incisor Hypomineralisation in an Emerging Community, and a Possible Correlation with Caries, Fluorosis and Socioeconomic Status.** *Oral health & preventive dentistry*
  Ahmad, S. H., Petrou, M. A., Alhumrani, A., Hashim, R., Splieth, C.
  2019; 17 (4): 323-327

PRESENTATIONS

- Comparison of Molar-Incisor Hypomineralization Prevalence in Dubai/UAE and Greifswald/Germany - 12th Congress of the European Academy of Paediatric Dentistry, Sopot, Poland