Stanford



Tulio Valdez, MD, MSc

Professor of Otolaryngology - Head & Neck Surgery (OHNS) and, by courtesy, of Pediatrics

Otolaryngology (Head and Neck Surgery)

CLINICAL OFFICE (PRIMARY)

- **Dept Of Otolaryngology**

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Bio

BIO

Dr. Tulio A Valdez is a surgeon scientist with a subspecialty interest in Pediatric Otolaryngology. He attended medical school at Universidad Javeriana in Bogota Colombia before undertaking his residency in Otolaryngology, Head and Neck Surgery in Boston. He completed his Pediatric Otolaryngology Fellowship at Texas Children's Hospital (2007), Houston and obtained his Master's in Clinical and Translational Research at the University of Connecticut.

Clinically, Dr. Valdez has an interest in pediatric sleep apnea. He has a special interest in the management of sinus disease in cystic fibrosis. Dr. Valdez has co-authored one textbook and numerous book chapters and scientific manuscripts. Dr. Valdez continues his clinical research in these areas, particularly with a focus on aerodigestive disorders.

Scientifically, Dr. Valdez has developed various imaging methods to diagnose otitis media and cholesteatoma a middle ear condition that can lead to hearing loss. He was part of the Laser Biomedical Research Center at the Massachusetts Institute of Technology. His research includes novel imaging modalities to better diagnose ear infections one of the most common pediatric problems. His research has now expanded to include better intraoperative imaging modalities in pediatric patients to improve surgical outcomes without the need for radiation exposure.

Dr. Valdez believes in multi-disciplinary collaborations to tackle medical problems and has co-invented various medical devices and surgical simulation models.

CLINICAL FOCUS

- Pediatric Otolaryngology

ACADEMIC APPOINTMENTS

- Professor-Univ Med Line, Otolaryngology (Head and Neck Surgery)
- Professor-Univ Med Line (By courtesy), Pediatrics

- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Otolaryngology, American Board of Otolaryngology (2021)
- Fellowship: Baylor College of Medicine (2007) TX
- Board Certification: Otolaryngology, American Board of Otolaryngology (2006)
- Residency: Tufts Medical Center Graduate Medical Education (2005) MA
- Internship: Tufts Medical Center Graduate Medical Education (2001) MA
- Medical Education: Pontifica Universidad Javeriana (1997) Colombia

PATENTS

- Tulio Valdez. "United States Patent US10874333B2 Systems and methods for diagnosis of middle ear conditions and detection of analytes in the tympanic membrane", Massachusetts Institute of Technology, Dec 29, 2020
- Tulio Valdez. "United States Patent 9986915 Systems and methods for a short wave infrared device", Massachusetts Institute of Technology, Jun 8, 2018

LINKS

- Valdez Lab: https://med.stanford.edu/ohns/research/labs/tulio-valdez-lab.html
- Google Scholar: https://scholar.google.com/citations?user=-BkqAYEAAAAJ

Research & Scholarship

CLINICAL TRIALS

- Identification of Nerves Using Fluorescein Sodium, Recruiting
- Stanford Program to Accelerate Robotic Children's Surgery, Not Specified
- SWIR Otoscopy Study, Not Specified

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Vikrantvir Jain, Ruchi Singh, Shu Wang

Publications

PUBLICATIONS

- **First Pediatric Use of Pegulicianine for Fluorescence-Guided Surgery in Li-Fraumeni-Associated Rhabdomyosarcoma.** *Pediatric blood & cancer*
  Masouleh, A. G., Lee, Y. J., Valdez, T., Divi, V., Park, K. W., Miranda, A., Meister, K.
  2026: e70587
- **Practice Patterns for the Management of Pediatric oSDB: What Is the Current National Landscape?** *The Laryngoscope*
  Rahman, A., Shaffer, A., Valdez, T. A., Whelan, R.
  2026
- **Beta-2 Transferrin May Not Be Specific for Presence of Cerebrospinal Fluid in Middle Ear Fluid.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*

Thai, A., Vasilijic, S., Moore, L. S., Kullar, P. J., Lee, J. Y., Cheng, A. G., Sidell, D. R., Kim, G. S., Valdez, T. A., Chang, K. W., Ahmad, I. N., Balakrishnan, K., Stankovic, et al
2026

- **Cohort study of opioid utilization in post-tonsillectomy pediatric patients.** *American journal of otolaryngology*
  Maddineni, S., Vendra, V., Khan, H., Ali, N., Valdez, T., Messner, A., Ahmad, I.
  2026; 47 (4): 104858

- **Mixed hearing loss in children: Etiology, management, and audiological outcomes.** *International journal of pediatric otorhinolaryngology*
  Aldè, M., Rasom, C., Zanon, L. S., Pignataro, L., Zanetti, D., Marchisio, P., Valdez, T. A.
  2026; 205: 112848

- **Imaging of Staphylococcus aureus Infections and Biofilms Using a Selective Covalent Probe for the Unique Serine Hydrolase FphE.** *Angewandte Chemie (International ed. in English)*
  Woods, E. C., Upadhyay, T., Park, K. W., Su, S. P., Xiao, Z., Rao, J., Valdez, T. A., Jo, J., Bogyo, M.
  2026: e9575966

- **Imaging of Staphylococcus aureus infections and biofilms using a selective covalent probe for the unique serine hydrolase FphE.** *bioRxiv : the preprint server for biology*
  Woods, E. C., Upadhyay, T., Park, K. W., Su, S. P., Xiao, Z., Rao, J., Valdez, T. A., Jo, J., Bogyo, M.
  2026

- **Intraoperative Label-free Detection of Cholesteatoma Using Autofluorescence: A Feasibility Study.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*
  Park, R. K., Penaranda, D., Nyaeme, M. S., Chang, K. W., Blevins, N. H., Ahmad, I., Valdez, T. A.
  2026; 47 (2): e467-e472

- **Multimodal Shortwave Infrared Imaging for Visualization of Injection Laryngoplasty.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
  Park, R. K., Lee, M. C., Härtl, S., Arús, B. A., Nuyen, B., Sung, C. K., Baik, F. M., Bruns, O. T., Valdez, T. A.
  2025

- **Nano Approaches to Nucleic Acid Delivery: Barriers, Solutions, and Current Landscape.** *Wiley interdisciplinary reviews. Nanomedicine and nanobiotechnology*
  Gonzalez, J. C., Park, K. W., Evans, D. B., Sharma, R., Sahaym, O., Gopalakrishnan, S., Dar, A. I., Valdez, T. A., Sharma, A.
  2025; 17 (2): e70010

- **Injectable alginate/collagen clindamycin hydrogel for treatment of surgical site infections.** *Scientific reports*
  Park, R. K., Kim, S., An, J., Lee, M. C., Yang, Y. P., Valdez, T. A.
  2025; 15 (1): 7964

- **Mixed-Layered Glycodendrimer Probe for Imaging Inflammation at Surgical Site Infections.** *ACS sensors*
  Dhull, A., Park, K. W., Dar, A. I., Wang, A., Rani, A., Sharma, R., Valdez, T. A., Sharma, A.
  2025

- **An mRNA Display Approach for Covalent Targeting of a Staphylococcus aureus Virulence Factor.** *Journal of the American Chemical Society*
  Wang, S., Woods, E. C., Jo, J., Zhu, J., Hansel-Harris, A., Holcomb, M., Llanos, M., Pedowitz, N. J., Upadhyay, T., Bennett, J., Fellner, M., Park, K. W., Zhang, et al
  2025

- **An mRNA Display Approach for Covalent Targeting of a Staphylococcus aureus Virulence Factor.** *bioRxiv : the preprint server for biology*
  Wang, S., Woods, E. C., Jo, J., Zhu, J., Hansel-Harris, A., Holcomb, M., Pedowitz, N. J., Upadhyay, T., Bennett, J., Fellner, M., Park, K. W., Zhang, A., Valdez, et al
  2024

- **Recurrent Respiratory Papillomatosis in the Post-Human Papillomavirus Vaccination Era.** *JAMA pediatrics*
  Qian, Z. J., Peñaranda, D., Valdez, T. A., Balakrishnan, K., Brigger, M. T.
  2024

- **Tympanostomy Tube Insertion With and Without Adenoidectomy.** *JAMA otolaryngology-- head & neck surgery*
  Qian, Z. J., Truong, M. T., Alyono, J. C., Valdez, T., Chang, K.

2024

- **Advancing neonatal hearing screening in Latin America: Insights from pediatric otolaryngologists.** *International journal of pediatric otorhinolaryngology*
  Peñaranda, D., Vo, R. H., Sih, T., Gonzalez Franco, G., Valdez, T. A.
  2024; 186: 112122
- **Artificial Intelligence and Pediatric Otolaryngology.** *Otolaryngologic clinics of North America*
  Huang, A. E., Valdez, T. A.
  2024
- **Bridging the Translation of ICG-1-Maltotriose: A Multimodal Sensor for Monitoring and Detecting Bacterial Infections.** *ACS sensors*
  Zlitni, A., Yang, S., Achterberg, F. B., Gowrishankar, G., Steinberg, I., Azevedo, C., Gambhir, S. S., Valdez, T. A.
  2024
- **Executive Summary of Clinical Practice Guideline on Immunotherapy for Inhalant Allergy.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
  Gurgel, R. K., Baroody, F. M., Damask, C. C., Mims, J. W., Ishman, S. L., Baker, D. P., Contrera, K. J., Farid, F. S., Fornadley, J. A., Gardner, D. D., Henry, L. R., Kim, J., Levy, et al
  2024; 170 (3): 635-667
- **Clinical Practice Guideline: Immunotherapy for Inhalant Allergy.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
  Gurgel, R. K., Baroody, F. M., Damask, C. C., Mims, J. W., Ishman, S. L., Baker, D. P., Contrera, K. J., Farid, F. S., Fornadley, J. A., Gardner, D. D., Henry, L. R., Kim, J., Levy, et al
  2024; 170 Suppl 1: S1-S42
- **Development of Oxadiazolone Activity-Based Probes Targeting FphE for Specific Detection of Staphylococcus aureus Infections.** *Journal of the American Chemical Society*
  Jo, J., Upadhyay, T., Woods, E. C., Park, K. W., Pedowitz, N. J., Jaworek-Korjakowska, J., Wang, S., Valdez, T. A., Fellner, M., Bogyo, M.
  2024
- **Label-Free Optical Technologies for Middle-Ear Diseases** *Bioengineering*
  Zhou, Z., Pandey, R., Valdez, T. A.
  2024; 11 (2)
- **Post-tonsillectomy outcomes in children with mucopolysaccharidosis and obstructive sleep apnea.** *Journal of otolaryngology - head & neck surgery = Le Journal d'oto-rhino-laryngologie et de chirurgie cervico-faciale*
  Elwell, Z., Mancuso, D., Wolter, N. E., Propst, E. J., Valdez, T., Scheffler, P.
  2023; 52 (1): 87
- **Spatial subsetting enables integrative modeling of oral squamous cell carcinoma multiplex imaging data.** *iScience*
  Einhaus, J., Gaudilliere, D. K., Hedou, J., Feyaerts, D., Ozawa, M. G., Sato, M., Ganio, E. A., Tsai, A. S., Stelzer, I. A., Bruckman, K. C., Amar, J. N., Sabayev, M., Bonham, et al
  2023; 26 (12): 108486
- **Development of Oxadiazolone Activity-Based Probes Targeting FphE for Specific Detection of S. aureus Infections.** *bioRxiv : the preprint server for biology*
  Jo, J., Upadhyay, T., Woods, E. C., Park, K. W., Pedowitz, N. J., Jaworek-Korjakowska, J., Wang, S., Valdez, T. A., Fellner, M., Bogyo, M.
  2023
- **Faculty and Leadership Advancement for People of Color in Otolaryngology** *CURRENT OTORHINOLARYNGOLOGY REPORTS*
  Solis, R. N., Valdez, T. A.
  2023
- **Cough Sounds in Screening and Diagnostics: A Scoping Review.** *The Laryngoscope*
  Hegde, S., Sreeram, S., Alter, I. L., Shor, C., Valdez, T. A., Meister, K. D., Rameau, A.
  2023
- **Development of a shortwave infrared sinuscope for the detection of cerebrospinal fluid leaks.** *Journal of biomedical optics*
  Klein, T. W., Yang, S., Tusty, M. A., Nayak, J. V., Chang, M. T., Bruns, O. T., Bischof, T. S., Valdez, T. A.

2023; 28 (9): 094803

- **Canal wall up versus canal wall down mastoidectomy techniques in the pediatric population with cholesteatoma: A systematic review and meta-analysis of comparative studies.** *International journal of pediatric otorhinolaryngology*
  Solis-Pazmino, P., Siepmann, T., Scheffler, P., Ali, N. E., Lincango-Naranjo, E., Valdez, T. A., Prokop, L. J., Min-Woo Illigens, B., Ponce, O. J., Ahmad, I. N.
  2023; 173: 111658

- **Imaging guidance for cholesteatoma surgery using tissue autofluorescence.** *Journal of biomedical optics*
  Yang, S., Farrell, J., Ye, S., Ahmad, I., Valdez, T. A.
  2023; 28 (6): 066003

- **Topical Delivery of Elastic Liposomal Vesicles for Treatment of Middle and Inner Ear Diseases.** *ACS applied bio materials*
  Kashfi Sadabad, R., Xia, A., Benkafadar, N., Faniku, C., Preciado, D., Yang, S., Valdez, T. A.
  2022

- **Artificial intelligence and tele-otoscopy: A window into the future of pediatric otology.** *International journal of pediatric otorhinolaryngology*
  Ezzibdeh, R., Munjal, T., Ahmad, I., Valdez, T. A.
  2022; 160: 111229

- **Use of Polysomnography and CPAP in Children Who Received Adenotonsillectomy, US 2004 to 2018.** *The Laryngoscope*
  Qian, Z. J., Howard, J. M., Cohen, S. M., Jin, M. C., Bhargava, S., Cheng, A. G., Valdez, T. A.
  2022

- **Centralized Otolaryngology Research Efforts: Stepping-stones to Innovation and Equity in Otolaryngology-Head and Neck Surgery.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
  Brenner, M. J., Nelson, R. F., Valdez, T. A., Moody-Antonio, S. A., Nathan, C. O., St John, M. A., Francis, H. W.
  1800: 1945998211065465

- **New Medical Device and Therapeutic Approvals in Otolaryngology: State of the Art Review 2020.** *OTO open*
  Brenner, M. J., Shenson, J. A., Rose, A. S., Valdez, T. A., Takashima, M., Ahmed, O. G., Weissbrod, P. A., Hong, R. S., Djalilian, H., Wolf, J. S., Morrison, R. J., Santa Maria, P. L., Erbele, et al
  2021; 5 (4): 2473974X211057035

- **Re-engineering the Surgeon-Scientist Pipeline: Advancing Diversity and Equity to Fuel Scientific Innovation.** *The Laryngoscope*
  Munjal, T., Nathan, C., Brenner, M. J., Stankovic, K. M., Francis, H. W., Valdez, T. A.
  2021

- **Comparing sleep studies in terms of the apnea-hypopnea index using the dedicated Shiny web application** *BIOMEDICAL SIGNAL PROCESSING AND CONTROL*
  Mlynczak, M., Valdez, T. A., Kukwa, W.
  2021; 68

- **Shortwave infrared otoscopy for diagnosis of middle ear effusions: a machine-learning-based approach.** *Scientific reports*
  Kashani, R. G., Mlynczak, M. C., Zarabanda, D., Solis-Pazmino, P., Huland, D. M., Ahmad, I. N., Singh, S. P., Valdez, T. A.
  2021; 11 (1): 12509

- **New Age Mentoring and Disruptive Innovation-Navigating the Uncharted With Vision, Purpose, and Equity.** *JAMA otolaryngology-- head & neck surgery*
  Ahmadmehrabi, S., Farlow, J. L., Wamkpah, N. S., Esianor, B. I., Brenner, M. J., Valdez, T. A., Malekzadeh, S., Bradford, C. R., Francis, H. W.
  2021

- **Short-Wave Infrared Fluorescence Chemical Sensor for Detection of Otitis Media.** *ACS sensors*
  Yim, J. J., Singh, S. P., Xia, A., Kashfi-Sadabad, R., Tholen, M., Huland, D. M., Zarabanda, D., Cao, Z., Solis-Pazmino, P., Bogyo, M., Valdez, T. A.
  2020

- **Dupilumab use in recalcitrant allergic fungal rhinosinusitis** *ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY*
  Lo, R. M., Liu, A. Y., Valdez, T. A., Gernez, Y.
  2020; 125 (5): 617–19

- **Combined web and haptic simulation system: A pilot study.** *International journal of pediatric otorhinolaryngology*

Valdez, T. A., Kudaravalli, S., Kavanagh, K. R.
2020; 138: 110371

- **Prioritizing Diversity in Otolaryngology-Head and Neck Surgery: Starting a Conversation.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
  Truesdale, C. M., Baugh, R. F., Brenner, M. J., Loyo, M., Megwalu, U. C., Moore, C. E., Paddock, E. A., Prince, M. E., Strange, M., Sylvester, M. J., Thompson, D. M., Valdez, T. A., Xie, et al
  2020: 194599820960722

- **Cigarette smoke-induced changes in the murine vocal folds: a Raman spectroscopic observation.** *The Analyst*
  Erickson-DiRenzo, E., Singh, S. P., Martinez, J. D., Sanchez, S. E., Easwaran, M., Valdez, T. A.
  2020

- **The Long "Race" to Diversity in Otolaryngology.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
  Tusty, M., Flores, B., Victor, R., Fassiotto, M., Maldonado, Y., Howard, J., Valdez, T. A.
  2020: 194599820951132

- **How do we teach surgical residents in the COVID-19 era?** *Journal of surgical education*
  Okland, T. S., Pepper, J., Valdez, T. A.
  2020

- **Letters to the Deaf: Present-Day Relevance of History's Earliest Social Analysis of Deafness.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
  Naples, J., Valdez, T. A.
  2020: 194599819900492

- **The impact of COVID-19 on global disparities in surgical training in pediatric otolaryngology.** *International journal of pediatric otorhinolaryngology*
  Munjal, T. n., Kavanagh, K. R., Ezzibdeh, R. M., Valdez, T. A.
  2020; 138: 110267

- **Suppurative Thyroiditis: A Management Paradigm Based on Microbiology.** *Pediatric emergency care*
  Pereira, K. D., Highstein, M. J., Greenwell, A. G., Isaiah, A. n., Valdez, T. A.
  2020

- **Clinical Practice Guideline: Nosebleed (Epistaxis) Executive Summary.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
  Tunkel, D. E., Anne, S. n., Payne, S. C., Ishman, S. L., Rosenfeld, R. M., Abramson, P. J., Alikhaani, J. D., Benoit, M. M., Bercovitz, R. S., Brown, M. D., Chernobilsky, B. n., Feldstein, D. A., Hackell, et al
  2020; 162 (1): 8–25

- **Sublingual indocyanine green films for non-invasive swallowing assessment and inflammation detection through NIR/SWIR optical imaging.** *Scientific reports*
  Beringhs, A. O., Singh, S. P., Valdez, T. A., Lu, X. n.
  2020; 10 (1): 14003

- **Joint Apnea and Body Position Analysis for Home Sleep Studies Using a Wireless Audio and Motion Sensor** *IEEE ACCESS*
  Mlynczak, M., Valdez, T. A., Kukwa, W.
  2020; 8: 170579–87

- **Suppurative Thyroiditis: A Management Paradigm Based on Microbiology.** *Pediatric emergency care*
  Pereira, K. D., Highstein, M. J., Greenwell, A. G., Isaiah, A. n., Valdez, T. A.
  2020

- **Panel 1: Biotechnology, biomedical engineering and new models of otitis media.** *International journal of pediatric otorhinolaryngology*
  Gisselsson-Solen, M., Tahtinen, P. A., Ryan, A. F., Mulay, A., Kariya, S., Schilder, A. G., Valdez, T. A., Brown, S., Nolan, R. M., Hermansson, A., van Ingen, G., Marom, T.
  2019: 109833

- **3D printed myringotomy and tube simulation as an introduction to otolaryngology for medical students.** *International journal of pediatric otorhinolaryngology*

Sparks, D., Kavanagh, K. R., Vargas, J. A., Valdez, T. A.
2019; 128: 109730

- **Identification of early inflammatory changes in the tympanic membrane with Raman spectroscopy.** *The Analyst*
  Singh, S. P., Xia, A., Tusty, M., Victorovich Malkovskiy, A., Easwaran, M., Zarabanda, D., Valdez, T. A.
  2019
- **Biochemical Changes in Irradiated Oral Mucosa: A FTIR Spectroscopic Study.** *Biosensors*
  Ukkonen, H., Vuokila, S., Mikkonen, J. J., Dekker, H., Schulten, E. A., Bloemena, E., Koistinen, A., Valdez, T. A., Kullaa, A. M., Singh, S. P.
  2019; 9 (1)
- **Integration of Diffraction Phase Microscopy and Raman Imaging for Label-free Morpho-molecular Assessment of Live Cells.** *Journal of biophotonics*
  Pandey, R., Zhou, R., Bordett, R., Hunter, C., Glunde, K., Barman, I., Valdez, T., Finck, C.
  2018: e201800291
- **Teaching a tracheotomy handoff tool to pediatric first responders** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*
  Murray, N., Valdez, T. A., Hughes, A. L., Kavanagh, K. R.
  2018; 114: 120–23
- **Initial findings of shortwave infrared otoscopy in a pediatric population.** *International journal of pediatric otorhinolaryngology*
  Valdez, T. A., Carr, J. A., Kavanagh, K. R., Schwartz, M., Blake, D., Bruns, O., Bawendi, M.
  2018; 114: 15–19
- **Teaching a tracheotomy handoff tool to pediatric first responders.** *International journal of pediatric otorhinolaryngology*
  Murray, N., Valdez, T. A., Hughes, A. L., Kavanagh, K. R.
  2018; 114: 120–23
- **Initial findings of shortwave infrared otoscopy in a pediatric population** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*
  Valdez, T. A., Carr, J. A., Kavanagh, K. R., Schwartz, M., Blake, D., Bruns, O., Bawendi, M.
  2018; 114: 15–19
- **3-Dimensional printed haptic simulation model to teach incomplete cleft palate surgery in an international setting** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*
  Cote, V., Schwartz, M., Vargas, J., Canfarotta, M., Kavanagh, K. R., Hamdan, U., Valdez, T. A.
  2018; 113: 292–97
- **Differential diagnosis of otitis media with effusion using label-free Raman spectroscopy: A pilot study** *JOURNAL OF BIOPHOTONICS*
  Pandey, R., Zhang, C., Kang, J. W., Desai, P. M., Dasari, R. R., Barman, I., Valdez, T. A.
  2018; 11 (6)
- **iPhone otoscopes: Currently available, but reliable for tele-otoscopy in the hands of parents?** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*
  Shah, M., Sohal, M., Valdez, T. A., Grindle, C. R.
  2018; 106: 59–63
- **Using simulators to teach pediatric airway procedures in an international setting** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*
  Schwartz, M. A., Kavanagh, K. R., Frampton, S. J., Bruce, I. A., Valdez, T. A.
  2018; 104: 178–81
- **Differential diagnosis of otitis media with effusion using label-free Raman spectroscopy: A pilot study.** *Journal of biophotonics*
  Pandey, R., Zhang, C., Kang, J. W., Desai, P. M., Dasari, R. R., Barman, I., Valdez, T. A.
  2017
- **Pediatric laryngeal simulator using 3D printed models: A novel technique** *LARYNGOSCOPE*
  Kavanagh, K. R., Cote, V., Tsui, Y., Kudernatsch, S., Peterson, D. R., Valdez, T. A.
  2017; 127 (4): E132-E137

- **Tracheostomy for Severe Pediatric Obstructive Sleep Apnea: Indications and Outcomes.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
  Rizzi, C. J., Amin, J. D., Isaiah, A., Valdez, T. A., Jeyakumar, A., Smart, S. E., Pereira, K. D.
  2017: 194599817702369-?
- **Panel 8: Report on Recent Advances in Molecular and Cellular Biochemistry.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
  Preciado, D., Granath, A., Lin, J., Val, S., Kurabi, A., Johnston, N., Vijayasekaran, S., Valdez, T., Depireux, D., Hermansson, A.
  2017; 156 (4_): S106-S113
- **Pediatric laryngeal simulator using 3D printed models: A novel technique.** *Laryngoscope*
  Kavanagh, K. R., Cote, V., Tsui, Y., Kudernatsch, S., Peterson, D. R., Valdez, T. A.
  2017; 127 (4): E132-E137
- **Noninvasive Monitoring of Blood Glucose with Raman Spectroscopy** *ACCOUNTS OF CHEMICAL RESEARCH*
  Pandey, R., Paidi, S. K., Valdez, T. A., Zhang, C., Spegazzini, N., Dasari, R. R., Barman, I.
  2017; 50 (2): 264-272
- **Using the shortwave infrared to image middle ear pathologies** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Carr, J. A., Valdez, T. A., Bruns, O. T., Bawendi, M. G.
  2016; 113 (36): 9989-9994
- **Volume estimation of tonsil phantoms using an oral camera with 3D imaging** *BIOMEDICAL OPTICS EXPRESS*
  Das, A. J., Valdez, T. A., Vargas, J. A., Saksupapchon, P., Rachapudi, P., Ge, Z., Estrada, J. C., Raskar, R.
  2016; 7 (4): 1445-1457
- **A short-wave infrared otoscope for middle ear disease diagnostics** *PHOTONIC THERAPEUTICS AND DIAGNOSTICS XII*
  Carr, J. A., Valdez, T. A., Bruns, O. T., Bawendi, M. G.
  2016; 9689
- **Discerning the differential molecular pathology of proliferative middle ear lesions using Raman spectroscopy** *SCIENTIFIC REPORTS*
  Pandey, R., Paidi, S. K., Kang, J. W., Spegazzini, N., Dasari, R. R., Valdez, T. A., Barman, I.
  2015; 5
- **Nasal vestibulitis due to targeted therapies in cancer patients** *SUPPORTIVE CARE IN CANCER*
  Ruiz, J. N., Belum, V. R., Boers-Doets, C. B., Kamboj, M., Babady, N. E., Tang, Y., Valdez, T. A., Lacouture, M. E.
  2015; 23 (8): 2391-2398
- **Detecting tympanostomy tubes from otoscopic images via offline and online training** *COMPUTERS IN BIOLOGY AND MEDICINE*
  Wang, X., Valdez, T. A., Bi, J.
  2015; 61: 107-118
- **Multi-color reflectance imaging of middle ear pathology in vivo** *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*
  Valdez, T. A., Spegazzini, N., Pandey, R., Longo, K., Grindle, C., Peterson, D., Barman, I.
  2015; 407 (12): 3277-3283
- **Current Trends in Perioperative Antibiotic Use: A Survey of Otolaryngologists** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
  Valdez, T. A., Marvin, K., Bennett, N. J., Lerer, T., Nolder, A. R., Buchinsky, F. J.
  2015; 152 (1): 63-66
- **Development of the Connecticut Airway Risk Evaluation (CARE) system to improve handoff communication in pediatric patients with tracheotomy.** *JAMA otolaryngology-- head & neck surgery*
  Lawrason Hughes, A., Murray, N., Valdez, T. A., Kelly, R., Kavanagh, K.
  2014; 140 (1): 29-33
- **Bi modal Approach Using Spectroscopy and Digital Imaging to assist Otitis Media Diagnosis** *2014 40TH ANNUAL NORTHEAST BIOENGINEERING CONFERENCE (NEBEC)*
  Longo, K., Peterson, D., Valdez, T. A.
  2014

- **Development of the Connecticut Airway Risk Evaluation (CARE) System to Improve Handoff Communication in Pediatric Patients With Tracheotomy** *JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY*
  Hughes, A. L., Murray, N., Valdez, T. A., Kelly, R., Kavanagh, K.
  2014; 140 (1): 29-33
- **Phoma and Acremonium invasive fungal rhinosinusitis in congenital acute lymphocytic leukemia and literature review** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*
  Roehm, C. E., Salazar, J. C., Hagstrom, N., Valdez, T. A.
  2012; 76 (10): 1387-1391
- **Bacterial Tracheitis A Varied Entity** *PEDIATRIC EMERGENCY CARE*
  Miranda, A. D., Valdez, T. A., Pereira, K. D.
  2011; 27 (10): 950-953
- **Evaluation of Pediatric Sensorineural Hearing Loss: A Survey of Pediatric Otolaryngologists** *ANNALS OF OTOLOGY RHINOLOGY AND LARYNGOLOGY*
  Rutherford, K. D., Lerer, T. S., Schoem, S. R., Valdez, T. A.
  2011; 120 (10): 674-681
- **Preliminary Findings on the Effects of Topical Photoactivated Antimicrobial Methyl-delta-Aminolevulinic Acid on Murine Hearing Thresholds** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
  Roehm, C. E., Valdez, T. A., Parham, K.
  2011; 144 (6): 959-961
- **Postcricoid Vascular Lesions: Histopathological and Immunohistochemical Diagnosis** *LARYNGOSCOPE*
  Roehm, C. E., Chelius, D. C., Larrier, D., Hicks, M. J., Albright, J. T., Valdez, T. A.
  2011; 121 (2): 397-403
- **Enhanced Video Images for Tympanic Membrane Characterization** *2011 ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY (EMBC)*
  Cheng, L., Liu, J., Roehm, C. E., Valdez, T. A.
  2011: 4002-4005
- **Microbiology of Third and Fourth Branchial Pouch Cysts** *LARYNGOSCOPE*
  Pahlavan, S., Haque, W., Pereira, K., Larrier, D., Valdez, T. A.
  2010; 120 (3): 458-462
- **Kaposiform hemangioendothelioma (with Kasabach Merritt syndrome) of the head and neck: Case report and review of the literature** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*
  Mukerji, S. S., Osborn, A. J., Roberts, J., Valdez, T. A.
  2009; 73 (10): 1474-1476
- **Sensorineural hearing loss in patients with inflammatory bowel disease** *AMERICAN JOURNAL OF OTOLARYNGOLOGY*
  Karmody, C. S., Valdez, T. A., Desai, U., Blevins, N. H.
  2009; 30 (3): 166-170
- **Pneumococcal mastoiditis in children and the emergence of multidrug-resistant serotype 19A isolates** *PEDIATRICS*
  Ongkasuwan, J., Valdez, T. A., Hulten, K. G., Mason, E. O., Kaplan, S. L.
  2008; 122 (1): 34-39
- **Airway foreign bodies and brain abscesses: Report of two cases and review of the literature** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*
  Roberts, J., Bartlett, A. H., Giannoni, C. M., Valdez, T. A.
  2008; 72 (2): 265-269
- **Recurrent fetal rhabdomyoma of the head and neck** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*
  Valdez, T. A., Desai, U., Volk, M. S.
  2006; 70 (6): 1115-1118
- **Early laryngeal inhalation injury and its correlation with late sequelae** *LARYNGOSCOPE*
  Valdez, T. A., Desai, U., Ruhl, C. M., Nigri, P. T.

2006; 116 (2): 283-287

- **Spectroscopic detection and evaluation of morphologic and biochemical changes in early human oral carcinoma** *CANCER*
  Muller, M. G., Valdez, T. A., Georgakoudi, I., Backman, V., Fuentes, C., Kabani, S., Laver, N., Wang, Z. M., BOONE, C. W., Dasari, R. R., Shapshay, S. M., Feld, M. S.
  2003; 97 (7): 1681-1692
- **Idiopathic subglottic stenosis revisited** *ANNALS OF OTOLOGY RHINOLOGY AND LARYNGOLOGY*
  Valdez, T. A., Shapshay, S. M.
  2002; 111 (8): 690-695
- **Bronchoscopic management of benign stenosis.** *Chest surgery clinics of North America*
  Shapshay, S. M., Valdez, T. A.
  2001; 11 (4): 749-68
- **Pulsed-dye laser and retinoic acid delay progression of oral squamous cell carcinoma: A murine model** *LARYNGOSCOPE*
  Shah, R. K., Valdez, T. A., Wang, Z., Shapshay, S. M.
  2001; 111 (7): 1203-1208
- **Anterior window laryngoplasty: A new anatomic approach for posterior glottic and subglottic stenosis** *ANNALS OF OTOLOGY RHINOLOGY AND LARYNGOLOGY*
  Valdez, T. A., Wang, Z., Schumann, R., Shapshay, M.
  2001; 110 (6): 519-523
- **A new loser treatment for vocal cord papilloma-585-nm pulsed dye** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
  Valdez, T. A., McMillan, K., Shapshay, S. M.
  2001; 124 (4): 421-425
- **Pulsed dye laser treatment of laryngeal papillomas** *BRONCHOLOGY AND BRONCHOESOPHAGOLOGY: STATE OF THE ART*
  Shapshay, S. M., Valdez, T. A.
  2001; 1217: 90-94
- **Detection of preinvasive cancer cells** *NATURE*
  Backman, Wallace, M. B., Perelman, L. T., Arendt, J. T., Gurjar, R., Muller, M. G., Zhang, Q., Zonios, G., Kline, E., McGillican, T., Shapshay, S., Valdez, T., Badizadegan, K., et al
  2000; 406 (6791): 35-36
- **Light scattering spectroscopy: A new technique for clinical diagnosis of precancerous and cancerous changes in human epithelial tissues** *Lasers in the Life Sciences*
  Backman, V., Wallace, M., Perelman, L. T., Arendt, J. T., Gurjar, R., Muller, M. G., Zhang, Q., Zonios, G., Kline, E., McGilligan, T., Valdez, T., Van Dam, J., Badizadegan, et al
  2000; 9 (4): 255-264