



Children's Hospital Colorado



Department of Otolaryngology
Head & Neck Surgery

UNIVERSITY OF COLORADO
ANSCHUTZ MEDICAL CAMPUS

Fellowship Program

2020 - 2021



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Welcome

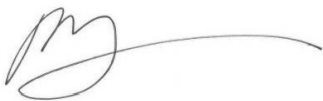
Dear applicant,

We are excited that you have applied to our fellowship program. Children's Hospital Colorado (CHCO) is home to one of the most sought-after, comprehensive Pediatric Otolaryngology fellowships in the nation and we have been training ACGME-accredited fellows for over a decade. The clinically focused program is one-year in length and we train 2 fellows per year. The experience is rich, covering all areas of our subspecialty, from cleft lip and palate to cochlear implantation, and the program offers numerous research opportunities, as well as overseas mission experiences.

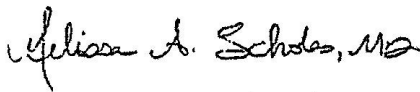
Children's Hospital Colorado serves the Denver-metro area and the entire Rocky Mountain West region, and consistently enjoys ranking among the nation's top 10 pediatric hospitals. Our patient population offers an unparalleled breadth of clinical experiences.

We look forward to meeting and sharing our program with you.

Sincerely,



Patricia J. Yoon, MD
Program Director



Melissa Scholes, MD
Associate Program Director



Kenny Chan, MD
Chief of Pediatric Otolaryngology

Faculty



Kenny Chan, MD
Chief of Pediatric Otolaryngology
Professor

Joined CHCO: 1993

Medical School: Loma Linda University

Residency: Loma Linda University

Fellowship: Pittsburgh Children's

Other Positions: President, ASPO, 2015; American Board of Otolaryngology, Complex Pediatric Otolaryngology Sub-certification Committee

Clinical Interests: Chronic ear disease, anterior skull base, rhinosinusitis

Research Interests: Rhinosinusitis, otitis media

Grants/Awards: Pneumococcal Vaccine Impact on Cognitive Development (co-investigator), Gates Foundation, 5280 Top Docs in Denver, 5280 Magazine, Alumni of the Year Award, Children's Hospital of Pittsburgh, Pittsburgh, PA



Patricia Yoon, MD
Program Director
Associate Professor

Joined CHCO: 2003

Medical School: Northwestern University

Residency: Stanford University

Fellowship: Seattle Children's

Other Positions: Chair, ASPO Fellowship Committee, 2015-17; Associate Medical Director, The Bill Daniels Center for Children's Hearing

Clinical Interests: Cochlear implantation, hearing loss, pediatric otology

Research Interests: Cochlear implantation, hearing loss, auditory neuropathy, otologic management of children with Down syndrome



Melissa Scholes, MD
Associate Program Director
Associate Professor

Joined CHCO: 2012

Medical School: University of Mississippi

Residency: University of Colorado

Fellowship: Nationwide Children's

Other positions: ASPO Membership Committee

Clinical interests: Cleft lip and palate, pediatric vertigo, sleep surgery

Research interests: Cleft lip and palate outcomes, pediatric vertigo treatment

Current grants/awards: Ponzio Research Accelerator Grant for treatment of pediatric vertigo



Gregory Allen, MD
Associate Professor

Joined CHCO: 1997

Medical School: University of Arkansas

Residency: West Virginia University

Fellowship: Pittsburgh Children's

Other positions: Medical Director, CHCO Cleft Lip and Palate Program; Program Committee 2017, Family Resources Committee, American Cleft Palate Craniofacial Association

Clinical interests: Cleft and craniofacial anomalies, international missions

Research interests: Cleft and craniofacial anomalies

Current grants/awards: A comparative effectiveness study of speech and surgical treatments using a Cleft Palate

Registry/Research Outcomes Network (CORNET), local role: Principle Investigator, overall study role: Investigator, Funding: NIH, NIDCR Grant Number: R01DE027493, 5 years



Owen Darr, MD
Assistant Professor

Joined CHCO: 2019

Medical School: University of Michigan

Residency: University of Michigan

Fellowship: Children's Hospital Colorado

Clinical interests: Otolaryngology, endoscopic ear surgery, head & neck tumors, point of care ultrasound, anterior skull base disease

Research interests: Environmental health in otolaryngology, clinical outcomes, quality and process improvement



Allison Dobbie, MD
Assistant Professor, Colorado Springs Campus

Joined CHCO: 2013

Medical School: Wayne State School of Medicine

Residency: University of California – Davis Medical Center

Fellowship: Medical University of South Carolina

Other positions: ASPO Young Members Committee, American Cleft Palate Association 2020 Annual Meeting Program Task Force

Clinical interests: Cleft lip/palate, VPI, middle ear disease, airway reconstruction

Research interests: Outcomes in cleft care, testing for congenital CMV related hearing loss



Christian Francom, MD
Assistant Professor

Joined CHCO: 2019

Medical School: University of Virginia

Residency: Ohio State University

Fellowship: Children's Hospital Colorado

Clinical interests: Cleft lip/palate, VPI, 22q11, vascular anomalies, head and neck malignancies, thyroid disease

Research interests: cleft lip/palate outcomes, mandibular distraction osteogenesis, pediatric thyroid disease, pediatric head and neck malignancies



Norman Friedman, MD

Professor

Joined CHCO: 2000

Medical School: University of Texas-Southwestern

Residency: University of Texas-Southwestern

Fellowship: Great Ormond Street, London

Other positions: Diplomate, American Board certified in Sleep Medicine; ASPO Summer Program Chair, 2020; ASPO Program Committee, 2020; Director CHCO Sleep Lab; ABIM Test Writing Committee

Clinical interests: Sleep medicine, obstructive sleep apnea, DISE, persistent sleep apnea

Research interests: Tonsillectomy outcome studies



Sarah Gitomer, MD

Assistant Professor

Joined CHCO: 2019

Medical School: University of Colorado

Residency: Baylor University

Fellowship: Texas Children's

Other positions: AAO Infectious Diseases Committee

Clinical interests: Sinusitis, microtia

Research interests: Cystic fibrosis associated sinusitis, airway mycosis

Current grants/awards: 2020 Colorado Clinical and Translational Sciences Institute Co-Pilot Award: Co Investigator/Primary Mentor Early identification and mitigation of hearing loss associated with bacterial meningitis in children



Steven Hamilton, MD

Assistant Professor, Colorado Springs Campus

Joined CHCO: 2015

Medical School: Mayo Clinic

Residency: University of Cincinnati

Fellowship: Boston Children's

Other positions: AAO-HNS Pediatric Otolaryngology Education Committee

Clinical interests: Aerodigestive, cochlear implantation, head & neck

Research interests: Aerodigestive, cochlear implantation, head & neck, medical education



Brian Herrmann, MD

Associate Professor

Joined CHCO: 2018

Medical School: University of Iowa

Residency: St. Louis University

Fellowship: Washington University in St. Louis

Other positions: ASPO ad hoc Summer Meeting Planning Committee; Course Director, Western Section of Pediatric Otolaryngology 2020 Meeting

Clinical interests: Otolaryngology, hearing loss, cholesteatoma, clinical efficiency

Research interests: Pediatric head and neck genetics and heritable cancer disorders, pediatric tympanoplasty outcomes, pediatric meningitis and hearing loss, bioengineering applications in otolaryngology

Current grants/awards: 2019 Center for Children's Surgery Ponzio award: Principle Investigator, Middle ear microbiome profiles of children with Down syndrome and otitis media; 2020 Colorado Clinical and Translational Sciences Institute Co-Pilot Award: Co Investigator/Primary Mentor Early identification and mitigation of hearing loss associated with bacterial meningitis in children



Peggy Kelley, MD
Associate Professor

Joined CHCO: 1998

Medical School: University of Pittsburgh

Residency: University of Rochester

Fellowship: Cincinnati Children's

Other: Fellowship in Clinical Surgical Ethics, University of Chicago, 2016-17

Other positions: President-Elect, Interamerican Association of Pediatric Otolaryngology; Chair, ASPO Program Committee, 2018

Clinical interests: Voice, airway, microtia, vascular anomalies, 22q11, medical ethics

Research interests: Ethics of tracheostomy, frenulectomy, supraglottoplasty



Steven Leoniak, MD
Assistant Professor, Colorado Springs Campus

Joined CHCO: 2017

Medical School: New York Medical College

Residency: Thomas Jefferson University Hospital

Fellowship: University of Texas-Southwestern Children's

Clinical interests: OSA, sinus disease, head & neck tumors

Research interests: OSA



Stephen Newton, MD
Associate Professor, Colorado Springs Campus

Joined CHCO: 2013

Medical School: Howard University

Residency: University of Iowa

Fellowship: Boston Children's

Other: T32 Research Fellowship

Other positions: ASPO Finance Committee; Clinical Medical Director, Briargate Outpatient Specialty Clinics

Clinical interests: Hearing loss, sinus disease, sleep

Research interests: Hearing loss, clinical outcomes



Jeremy Prager, MD
Associate Professor

Joined CHCO: 2010

Medical School: Washington University in St. Louis

Residency: Washington University in St. Louis

Fellowship: Cincinnati Children's

Other: MBA, University of Colorado

Other positions: President, Aerodigestive Society

Clinical interests: Airway and thyroid

Research interests: Quality and safety



Tammy Wang, MD
Assistant Professor, CHCO / Denver Health
Joined CHCO: 2019
Medical School: Case Western Reserve University
Residency: Case Western Reserve University
Fellowship: University of California, San Francisco
Clinical interests: Head & neck
Research interests: Medical education



Todd Wine, MD
Associate Professor
Joined CHCO: 2013
Medical School: Vanderbilt University
Residency: University of Cincinnati
Fellowship: Pittsburgh Children's
Other positions: AAO-HNS Pediatric Otolaryngology Education Committee; Director, CHCO Aerodigestive Program
Clinical interests: Aerodigestive disorders, head and neck tumors
Research interests: Pyriform aperture stenosis, embryology, tracheostomy management, simulation



Current Fellows & Alumni



Saied Ghadersohi, MD
Fellow: 2019 - 2020
Residency: Northwestern
Placement: Northwestern Lurie Children's



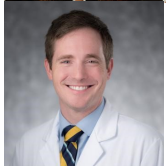
Owen Darr, MD
Fellow: 2018 - 2019
Residency: Michigan
Placement: Children's Hospital CO



Aditi Bhuskute, MD
Fellow: 2017 - 2018
Residency: UC Davis
Placement: Phoenix Children's / Mayo



Amy Dimachkieh, MD
Fellow: 2016 - 2017
Residency: Baylor
Placement: Texas Children's



Jordan Virbalas, MD
Fellow: 2015 - 2016
Residency: Albert Einstein
Placement: UCSF Benioff Children's



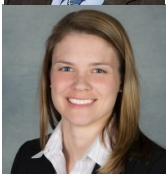
Jonathan Skirko, MD
Fellow: 2014 - 2015
Residency: Washington
Placement: Utah Primary Children's



Brianne Roby, MD
Fellow: 2013 - 2014
Residency: Minnesota
Placement: Children's Hosp. of Minnesota



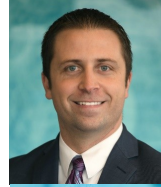
Tendy Chiang, MD
Fellow: 2012 - 2013
Residency: Ohio State
Placement: Nationwide Children's / OSU



Katherine Hamming, MD
Fellow: 2010 - 2011
Residency: Univ. of Minnesota
Placement: Rush University, Chicago



Ryota Kashiwazaki, MD
Fellow: 2019 - 2020
Residency: Pittsburgh
Placement: Seattle Children's



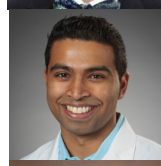
Christian Francom, MD
Fellow: 2018 - 2019
Residency: Ohio State
Placement: Children's Hospital CO



Jay Bhatt, MD
Fellow: 2017 - 2018
Residency: UC Irvine
Placement: Children's Hosp of Orange County



Jonathan Young, MD
Fellow: 2016 - 2017
Residency: VCU
Placement: University of Arizona - Tuscon



Winslo Idicula, MD
Fellow: 2015 - 2016
Residency: Ohio State
Placement: Texas Tech University



Jonathan Kopelovich, MD
Fellow: 2014 - 2015
Residency: Iowa
Placement: Bellevue ENT, Seattle



Jill Arganbright, MD
Fellow: 2013 - 2014
Residency: Kansas
Placement: Univ of Kansas / Children's Mercy



Valérie Côté, MD
Fellow: 2011 - 2012
Residency: McGill University
Placement: Connecticut Children's Hosp



Shelby C. Leuin, MD
Fellow: 2009 - 2010
Residency: Harvard
Placement: UC San Diego / Rady Children's

Selected 2019-20 Publications & Presentations

Chan KH, Dreith S, Uhler K, Tallo V, Lucero M, De Jesus J, Simoes EAF. Large-Scale Otoscopic and Audiometric Population Assessment: A Pilot Study. *Int J Pediatr Otorhinolaryngol* 2019 Feb;117:148-152. doi: 10.1016/j.ijporl.2018.11.033.

Larson ED, Magno JPM, Steritz MJ, Llanes EGDV, Cardwell J, Pedro M, Roberts TB, Einarsdottir E, Rosanes RAQ, Greenlee C, Santos RAP, Yousaf A, **Streubel SO**, Santos ATR, Ruiz AG, Lagrana-Villagrancia SM, Ray D, Yarza TKL, **Scholes MA**, Anderson CB, Acharya A; University of Washington Center for Mendelian Genomics, Gubbels SP, Bamshad MJ, Cass SP, Lee NR, Shaikh RS, Nickerson DA, Mohlke KL, **Prager JD**, Cruz TLG, **Yoon PJ**, Abes GT, Schwartz DA, Chan AL, **Wine TM**, Cutiongco-de la Paz EM, **Friedman N**, Kechris K, Kere J, Leal SM, Yang IV, Patel JA, Tantoco MLC, Riazuddin S, **Chan KH**, Mattila PS, Reyes-Quintos MRT, Ahmed ZM, Jenkins HA, Chonmaitree T, Hafrén L, Chiong CM, Santos-Cortez RLP. A2ML1 and otitis media: novel variants, differential expression and relevant pathways. *Hum Mutat*. 2019 Apr 22. doi: 10.1002/humu.23769. [Epub ahead of print] PMID: 31009165.

Bhatt JM, Muhonen EG, Meier M, Sagel SD, **Chan KH**. Rhinosinusitis in Pediatric Primary Ciliary Dyskinesia: Impact of Disease. *Otolaryngol Head Neck Surg*. 2019 Nov;161(5):877-880. doi: 10.1177/0194599819874842. Epub 2019 Sep 10.

Denoyelle F, Simon F, Chang KW, **Chan KH**, Cheng AG, Cheng AT, Choo DI, Daniel SJ, Farinetti A, Garabedian EN, Greinwald JH, Hoff SR, Hone S, Licameli GR, Papsin BC, Poe DS, Pransky S, Smith RJH, Triglia JM, Walton J, Zalzal G, Le Boulanger N. International Pediatric Otolaryngology Group (IPOG) Consensus Recommendations: Congenital Cholesteatoma. *Otol Neurotol*. 2019 Dec 16. doi: 10.1097/MAO.0000000000002521. [Epub ahead of print] PMID:31851066

Chan KH, Dinwiddie JK, Ahuja GS, Bennett EC, Brigger MT, Chi DH, Choo DI, Cunningham MJ, Elluru RG, Giannoni CM, Goudy SL, Koempel JA, MacArthur CJ, Malone B, Messner AH, Mitchell RB, Park AH, Richter GT, Rosbe KW, Shah UK, Sie KCY, Smith RJ, Sulman CG, Thompson JW, Thorne MC, Wei JL, Wetmore RF, White DR, Zalzal GH, Schoem SR. Advanced practice providers and children's hospital-based pediatric otolaryngology practices. *Int J Pediatr Otorhinolaryngol*. 2019 Nov 7;129:109770. doi: 10.1016/j.ijporl.2019.109770. [Epub ahead of print]

Darr OA, Carvalho D, Anne S, Dinwiddie J, **Yoon PJ**. Management of infectious risks in pediatric cochlear implantation. Presentation at American Society of Pediatric Otolaryngology Spring Meeting, Austin, TX, May 2019.

Cushing S, **Yoon PJ**, Inverso Y, Lieberman G. Clinical Focus Session: Application and challenges of new technology in paediatric hearing loss. Society for Ear, Nose and Throat Advances in Children (SENTAC) Annual Meeting, San Diego, CA, December 2019.

Yoon PJ, Sumalde A, Ray DC, **Newton S**, Cass SP, **Chan KH**, Santos-Cortez RL. . Novel variants in hearing loss genes and inner ear malformations in a multi-ethnic cohort of US patients with cochlear implant. Presentation at Association for Research in Otolaryngology (ARO) 2020 Midwinter Meeting, San Jose, CA, January 2020.

Baschal EE, Larson ED, Bootpetch TC, Pathak S, Frank G, Handley E, Dinwiddie J, Moloney M, **Yoon PJ**, Gubbels SP, **Scholes MA**, Cass SP, Jenkins HA, Frank DN, Yang IV, Schwartz DA, Ramakrishnan VR, Santos-Cortez RLP: Identification of novel genes and biological pathways that overlap in infectious and non-allergic diseases of the upper and lower airways using network analyses. *Front Genet*. 2020 January 17;10:1352. PMID:32010199

Scholes M. Pediatric Facial Trauma. Presented at Sergio Bernales Medical School. Lima, Peru, November 2020.

Greenlee C, **Scholes M**, Gao D, **Friedman N**. Obstructive sleep apnea and sleep position: Does it matter for infants with cleft palate? *The Cleft Palate-Craniofacial Journal*. 2019 Aug;56(7);890-895. PMID:31282194

Scholes M. Outcome of Adenotonsillectomy in Children with Obstructive Sleep Apnea and Major Psychiatric Disorders. Presented at ASPO Annual Meeting. Austin, TX. May 2019.

Wong Riff K WY, Tsangaris E, **Allen G**; et al. CLEFT-Q: Detecting Differences in Outcomes Between 2,434 Patients With Varying Cleft Types. *Plastic & Reconstructive Surgery*. 144(1):78e-88e, 2019 07.

Klassen AF, Goldacher T, **Allen G**, et al. Impact of Completing CLEFT-Q Scales that Ask About Appearance on Children and Young Adults: An International Study. Accepted for publication. *Cleft Palate Craniofacial Journal*. Nov 2019.

Fayoux P, Daniel SJ, **Allen G**, et al. International Pediatric ORL Group (IPOG) Robin Sequence consensus recommendations. *International Journal of Pediatric Otorhinolaryngology*. 130:109855, 2019 Dec 28.

Wooten CT, Belcher R, **Francom CR**, **Prager JD**. Aerodigestive Programs Enhance Outcomes in Pediatric Patients. *Otolaryngol Clin North Am*. 2019 Oct;52(5):937-948. doi: 10.1016/j.otc.2019.06.007. Epub 2019 Aug 7.

Francom C, Ruiz AG, Meier MR, Mitchell RB, **Friedman, NR**. Post-Operative Polysomnogram Practice Patterns Following Adenotonsillectomy in High Risk Children. Presented at American Society of Pediatric Otolaryngology Spring Meeting, Austin, TX, 2019.

Mitchell RB, Archer SM, Ishman SL, Rosenfeld RM, Coles S, Finestone SA, **Friedman NR**, Giordano T, Hildrew DM, Kim TW, Lloyd RM, Parikh SR, Shulman ST, Walner DL, Walsh SA, Nnacheta LC. Clinical Practice Guideline: Tonsillectomy in Children (Update). *Otolaryngol Head Neck Surg*. 2019 Feb;160(1_suppl):S1-S42. doi: 10.1177/0194599818801757. PubMed PMID: 30798778.

Friedman NR, Ruiz AG, Gao D, Jensen A, Mitchell RB. Pediatric Obstructive Sleep-Disordered Breathing: Updated Polysomnography Practice Patterns. *Otolaryngol Head Neck Surg*. 2019 Apr 30;194599819844786. doi: 10.1177/0194599819844786. [Epub ahead of print] PubMed PMID: 31035864.

Ruiz AG, Gao D, Ingram DG, Hickey F, Haemer MA, **Friedman NR**. Does Tonsillectomy Increase Obesity Risk in Children with Down Syndrome? *J Pediatr*. 2019 May 10. pii: S0022-3476(19)30439-1. doi: 10.1016/j.jpeds.2019.04.019. [Epub ahead of print] PubMed PMID: 31084917.

Gitomer SA, Shebha Anand G, Bradley HE, Kumar M, Ouellette L, Musso MF. Screening for undiagnosed bleeding disorders in post-tonsillectomy bleed patients: Retrospective review and systematic review of the literature. *Int J Pediatr Otorhinolaryngol*. 2019 Sep;124:210-214. doi: 10.1016/j.ijporl.2019.06.009. Epub 2019 Jun 10.

Lovin BD, **Gitomer SA**, Gallagher KK. Facial Cellulitis and Sinonasal Necrotizing Infection in a Middle-aged Woman. *JAMA Otolaryngol Head Neck Surg*. 2019 Jun 1;145(6):576-577. doi: 10.1001/jamaoto.2019.0333.

Lindquist NR, Patro A, **Gitomer SA**, Cañadas KT. Pediatric acute unilateral suppurative lymphadenitis: The role of antibiotic susceptibilities at a large tertiary pediatric care center. *Int J Pediatr Otorhinolaryngol*. 2019 May;120:11-14. doi: 10.1016/j.ijporl.2019.01.024. Epub 2019 Jan 30.

Hamilton S, Francom C. Aural atresia and cholesteatoma: a case series. Presented at American Society of Pediatric Otolaryngology Summer meeting, Vail, CO, July 2019.

Nguyen N, Lavery WJ, Capocelli KE, Smith C, DeBoer EM, Deterding R, **Prager JD**, Leinwand K, Kobak GE, Kramer RE, Menard-Katcher C, Furuta GT, Atkins D, Fleischer D, Greenhawt M, Friedlander JA. Transnasal Endoscopy in Unsedated Children With Eosinophilic Esophagitis Using Virtual Reality Video Goggles. *Clin Gastroenterol Hepatol*. 2019 Jan 29.

Ruiz AG, **Bhatt JM**, DeBoer EM, Friedlander J, Janosy N, Peterson MB, **Wine T**, Deterding R, **Prager JD**. Demonstrating the benefits of a multidisciplinary aerodigestive program. *Laryngoscope*. 2019 Mar 27. doi: 10.1002/lary.27939.

Dewberry L, **Wine T, Prager J**, Masaracchia M, Janosy N, Polaner D, DeBoer E, Somme S. Thoracoscopic Posterior Tracheopexy Is a Feasible and Effective Treatment for Tracheomalacia. *J Laparoendosc Adv Surg Tech A*. 2019 Jun 20. doi: 10.1089/lap.2019.0156.

Prager JD, Baker CD. The Multidisciplinary Tracheostomy Team: A Parachute for Tracheostomy-Dependent Children. *JAMA Otolaryngol Head Neck Surg*. 2019 Sep 19.

Herrmann BW, Hathaway C. Hearing Loss in Pediatric Septo-Optic Dysplasia. *Ann Otol Rhinol Laryngol*. 2019; 128:485-489.

Francom CR, Leoniak S, Lovell MA, **Herrmann BW**. Pediatric Head and Neck Pleomorphic Myxoid Liposarcoma in a Child with Li-Fraumeni Syndrome. *Int J Pediatr Otorhinolaryngol*. 2019; 123:191-194.

Wai KC, **Wang TJ**, Lee E, Rosbe K. Management of Persistent Pediatric Cervical Lymphadenopathy. *Archives ORL-HNS*. 2020; 4(1):1.

Wang T, Diane S, Czechowicz J. Interprofessional tracheostomy education course. Presented at the American Bronchoesophageal Society Spring meeting, Austin, TX, May 2019.

Fellowship Program Overview

Mission

The goal of our fellowship program is to train an independently-practicing pediatric otolaryngologist who is knowledgeable, capable, competent, self-critical, inquisitive, ethical, and compassionate. This one-year postgraduate education program provides an in-depth survey of the subspecialty based on clinical, didactic, and research exposure. The program will allow the trainee to expertly diagnose, treat, and manage patients with pediatric otolaryngology disorders, ranging from routine to complex, and provide opportunities for increased decision making, clinical duties, and autonomy as the academic year progresses.

Description

The pediatric otolaryngology fellowship program is an ACGME-accredited program that trains two fellows per year. The fellow is trained for all 12 months at CHCO and is officially a PGY-6 resident in the Department of Otolaryngology-Head & Neck Surgery. The vast majority of training is at the Main Campus of Children's Hospital, but fellows receive some clinic and surgery experiences at the satellite campuses.

The fellows participate in clinical care, didactics, and research. Each week, the fellows spend 1-2 half days in the outpatient clinics and much of the remaining time in the operating room. The clinical experience includes an abundance of complex surgical cases, inpatient consultations, general pediatric otolaryngology and subspecialty clinics. Our multidisciplinary/subspecialty clinics include the following:

- Cleft Lip and Palate Clinic
- Complex Craniofacial Clinic
- Vascular Anomalies Clinic
- AERO Clinic
- Hearing Clinic
- Cochlear Implant Clinic
- VPI Clinic
- Balance Clinic
- Microtia Clinic
- Voice Clinic
- Sinus Clinic
- FEES Clinic
- 22q11 Clinic
- Prader Willi Clinic
- Skeletal Dysplasia Clinic
- Turner Syndrome Clinic
- Maternal Fetal Medicine Program
- Sleep Clinic and Downs Syndrome Sleep Clinic
- HHT Clinic



The fellows round with the residents in the mornings and participate in attending teaching rounds in the afternoons. It is expected that the fellows will be team players, but that they also will take on a teaching and supervisory role with the otolaryngology residents (intern, PGY-2, PGY-3, and PGY-4).

There is a rigorous and structured didactic program for fellow education. The fellows have one half-day per week of protected time for research. Scholarly activity is expected. The fellow is to choose a project of personal interest, which may be an ongoing or de novo project, and also is required to complete a quality improvement (QI) project during the year. In addition to faculty mentorship, the fellow is enrolled in a research methodology and biostatistics course, and the department has professional research assistants who support these endeavors.

Each fellow takes an average of 1 weeknight call every other week and one weekend call per month (call is from home). The fellow acts as the interface between the otolaryngology resident and faculty member on call.

The progression of the fellows' responsibilities comes about through accumulated experience and trust built with the faculty. As fellows gain experience and expertise in the field of pediatric otolaryngology, increasing autonomy is allowed. It comes in the form of increasing reliance on the fellows' clinical assessment of patients in inpatient and outpatient settings, an increased decision-making role, and increased participation in more technically challenging surgeries where the fellow acts as primary surgeon.

Pediatric Otolaryngology at CHCO

Pediatric Otolaryngology is the highest volume service at CHCO. In 2019, our department completed 28,865 outpatient visits. Approximately 20,000 visits were at the Main, North, and South campuses, and approximately 8,000 visits in Colorado Springs. We completed over 8,000 patient surgeries (>15,000 procedures) in 2019, with over 6,000 of these at the Main, North, South campuses.



The Hospital

Founded in 1908, Children's Hospital Colorado (CHCO) is a private, not-for-profit pediatric healthcare network. With more than 3,000 pediatric specialists and more than 5,000 full time employees, it serves the Denver-metro area and the entire Rocky Mountain region of the Western U.S. CHCO is home to a number of nationally and internationally recognized medical programs and consistently is ranked among the top 10 pediatric hospitals in the nation.

CHCO actually began as a summer "tent" hospital in 1897. It was felt that high altitude, sunshine, and fresh air would cure many illnesses! The first actual building was completed in 1909 and our current facility opened in 2007. CHCO has been undergoing continuous expansion. 2013 brought the East Tower addition that houses the Colorado Institute for Maternal and Fetal Health, the Center for Cancer and Blood Disorders, the Heart Institute, and the simulation lab. The current campus is just under two million square feet and houses 410 licensed beds, including 130 critical care beds. There are three additional campuses: South Campus in Highlands Ranch, since 2013, and the North Campus in Broomfield, which is opening March 2020. Children's Hospital has also been established in Colorado Springs since 2013 and a new hospital opened there in 2019.



Sample Curriculum Calendar

Sample Pediatric Otolaryngology Curriculum Calendar

CONFERENCE	SITE	DATE	TIME	LEADER
Pediatric Otolaryngology Conference	CHC	Mondays	0700-0730	Peds Oto and other CHC Faculty and Fellow
Inpatient/Surgery Discussion Conference	CHC	Mondays	0730-0820	Fellows and Residents
Quality Assurance (M&M) Conference	CHC	Quarterly	0700-0800	Fellows and Residents
Research Methodology and Biostatistics Course	CHC	6 lectures	1700-1900	CHC Faculty
Sleep Medicine Lectures	CHC	9 lectures (July-Aug)	1300-1600	CHC Faculty
Grand Rounds	Dept of Oto	Thursdays	0700-0800	Fellows and Residents
Otolaryngology Department Core Curriculum Lectures	Dept of Oto	Thursdays (5-6 wks/yr for ped oto)	0800-1100	Peds Oto Faculty
Pediatric Otolaryngology Journal Club	Dept of Oto	Quarterly - Bimonthly	Evenings	Peds Oto Faculty and Fellows
Temporal Bone Dissection Course	Dept of Oto	Once annually	All day	UCH Faculty
Advanced Cochlear Implantation Course	Dept of Oto	Once annually	All day	UCH Faculty
Sinus Dissection Course	Dept of Oto	Once annually	All day	UCH Faculty
University of Colorado Midwinter Meeting	Dept of Oto	Once annually	4 days in February	CHC and National Faculty



Sample Case Log

Sample Case Log of 1 Fellow



Experience by Role Report
University of Colorado Program - 2880712008
Resident:
As of 7/18/2019

	Assistant Surgeon	Resident Supervisor	Resident Surgeon	Total
Congenital Anomalies				
Branchial cleft anomaly excision	0	0	17	17
Thyroglossal duct cyst excision	0	0	6	6
Dermoid cyst/glioma/encephalocele excision	0	0	1	1
Hemangioma, lymphatic or vascular malformation excision	0	0	5	5
Ramula excision	0	0	3	3
Total Congenital Anomalies	0	0	32	32

Head and Neck Surgery				
Drainage deep neck abscess	0	0	23	23
Retropharyngeal (RP)/parapharyngeal space (PPS) abscess - internal approach	0	0	12	12
Retropharyngeal (RP)/parapharyngeal space (PPS) abscess - external approach	0	0	1	1
Excision angiofibroma or other nasopharyngeal tumor	0	0	0	0
Parotidectomy	0	0	6	6
Submandibular gland excision	0	0	9	9
Thyroidectomy	0	0	14	14
Total Head and Neck Surgery	0	0	65	65

Otology				
Mastoidectomy	0	0	17	17
Ossicular reconstruction	0	0	12	12
Cochlear implant	0	0	12	12
Ossse-integrated implant	0	0	11	11
Total Otology	0	0	52	52

Closed Airway Procedure				
Tracheostomy	0	0	19	19
Total Closed Airway Procedure	0	0	19	19

Open Airway Procedure				
Thyrotomy (laryngofissure)	0	0	0	0
Laryngoplasty/Laryngotracheoplasty	0	0	10	10
Cricotracheal/tracheal resection and repair	0	0	0	0
Total Open Airway Procedure	0	0	10	10

Endoscopy with Intervention				
Laryngoscopy and intervention	0	0	68	68
Bronchoscopy and intervention	0	0	28	28
Esophagoscopy and intervention	0	0	1	1
Total Endoscopy with Intervention	0	0	97	97

	Assistant Surgeon	Resident Supervisor	Resident Surgeon	Total
Rhinology				
Sinonasal endoscopic	0	0	104	104
Endoscopic sinonasal, extended	0	0	2	2
Repair choanal atresia	0	0	3	3
Total Rhinology	0	0	109	109

Facial Plastic				
Otoplasty	0	0	2	2
Cleft repair - lip	0	0	10	10
Cleft repair - palate	0	0	44	44
Pharyngoplasty/Pharyngeal flap	0	0	17	17
Mandibular osteotomy	0	0	3	3
Placement mandibular craniofacial distraction device	0	0	20	20
Reconstruction microtic ear, any stage	0	0	10	10
Repair complex lacerations (all sites, including intraoral)	0	0	9	9
Total Facial Plastic	0	0	115	115

Non-Tracked Codes				
Non-Tracked Codes	0	0	500	500
Total Non-Tracked Codes	0	0	500	500

GRAND TOTAL 0 0 1,098 1,098



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Children's Hospital Colorado



Department of Otolaryngology
Head & Neck Surgery

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