

UW SCHOOL OF MEDICINE CURRICULUM VITAE

KAALAN ERIK JOHNSON, MD

August 2018

PERSONAL DATA

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EDUCATION

1995-2000 BS, Electrical Engineering, *magna cum laude*, Seattle Pacific Univ., Seattle, WA
2000-2004 MD, Loma Linda University School of Medicine, Loma Linda, CA

POSTGRADUATE TRAINING

2004-2009 Residency, Otolaryngology Head and Neck Surgery, Eastern Virginia Medical School Norfolk, VA
2009-2011 Fellowship, Pediatric Otolaryngology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH

FACULTY POSITIONS HELD

2011-2013 Assistant Professor, Department of Otolaryngology Head and Neck Surgery, University of Cincinnati, OH
2013-Present Assistant Professor, Department of Otolaryngology – Head and Neck Surgery, University of Washington School of Medicine, Seattle, WA

HOSPITAL POSITIONS HELD

2011-2013 Attending Physician, Cincinnati Children's Hospital Medical Center
2013-Present Attending Physician, Seattle Children's Hospital

HONORS/AWARDS

2004 Alpha Omega Alpha Honor Society Member
2007 4th place in Poster Competition Naval Medical Center Portsmouth, Project Presenter
2007 1st Place, Resident Research Award, Basic Science Category, AAO-HNSF, Project Presenter
2009 1st Place, Resident Podium Presentations, Virginia Society of Otolaryngology Annual Meeting, Project Presenter
2009 Eunice Baxter Award for Outstanding Chief Surgical Resident at Sentara Norfolk General Hospital
2010 Unsung Heroes Award Winner, Cincinnati Children's Hospital Medical Center,
2011 Travel Grant awardee, ASPO Meeting, project presenter
2014 1st Place Resident Research Presentations, Northeastern Ohio Otolaryngology Head & Neck Surgery Society Meeting, Project PI
2017 Resident Teaching Award, University of Washington Otolaryngology Graduation,

- 2017 Member of the Simulation Education Committee selected for a “Committee of Excellence” designation by the AAO-HNSF
- 2017 David Fisher Award for Excellence in Safety Nominee, “Kaalán Johnson and the Aerodigestive Team”, Seattle Children’s Hospital
- 2017 “Best In Show” Award, Best Overall Poster at AAO-HNSF, Project PI
- 2018 Third place winner of the Charles Ferguson Award for the “Best Clinical Manuscript” at ASPO meeting, Project PI
- 2018 Seymour Cohen Award winner for “Best Original Paper in Basic Research or Clinical Investigation” at ABEA meeting, Project PI
- 2018 WWAMI Pro Recognition: UW Medical Student Award for Excellence

BOARD CERTIFICATION:

- 2010 Diplomate, American Board of Otolaryngology – Head & Neck Surgery

STATE LICENSURE:

- 2011-2013 Ohio State Medical License
- 2013-Present Washington State Medical License

PROFESSIONAL ORGANIZATIONS:

- 2000-Present American Medical Association (AMA)
- 2004-Present Member, Alpha Omega Honor Society
- 2006-Present American Academy of Otolaryngology – Head and Neck Surgery (AAO-HNS)
- 2009-2013 Society for Simulation in Healthcare (SSIH)
- 2018-Present American Society of Pediatric Otolaryngology (ASPO)

LEADERSHIP /COMMITTEES:

- 2000-2001 Loma Linda University CMDA Student Chapter Vice President
- 2001-2002 Loma Linda University CMDA Student Chapter President
- 2004-2009 Member of Surgical Services, Pharmacology, and Peer Review, Ambulatory Care, and Critical Care Committees
- 2010 Community Physician Epic Training Coordinator
- 2010 Departmental Epic Training Coordinator
- 2011 Epic Super-user and Departmental Epic Educational Coordinator
- 2013 Program owner of CPI Alignment Event for Aerodigestive Program at Seattle Children’s Hospital
- 2013-Present Member of the Seattle Children’s Hospital Difficult Airway Committee
- 2013-Present Surgical Director of the Aerodigestive Program at Seattle Children’s Hospital
- 2014 Member of CPI (Continuous Performance Improvement) Event on Tracheostomy Safety
- 2014 Program owner of CPI Event for Aerodigestive Program at Seattle Children’s Hospital
- 2016-Present Member of Seattle Children’s Professional Education and Billing Committee
- 2016-Present Member of AAO-HNS Simulation Education Committee
- 2017-Present Member of the Aerodigestive Society

COURSES-FACULTY/INVITED PRESENTATIONS/LECTURES

INTERNATIONAL

- 2014 Invited Lecture / Faculty. Cricotracheal Resection in a Porcine Model. Toronto International Pediatric Open Airway Surgery Course, 10/17/2014.
- 2014 Invited Lecture / Faculty. Airway Simulation: Practicing Equipment Assembly and Technique. Toronto International Pediatric Endoscopic Course, 10/16/2014.
- 2016 Invited Lecture / Faculty. Human Cricotracheal Resection. Toronto International Pediatric Open Airway Surgery Course, 10/21/2016.
- 2016 Invited Lecture / Faculty. Basics of Bronchoscopy. Toronto International Pediatric Endoscopic Course, 10/20/2016.
- 2017 Invited Lecture. Complex Airway Management. Surgery Grand Rounds. Hospital de Los Ninos, San Juan, Costa Rica, 11/15/2017.

NATIONAL

- 2010 Fellow Faculty, CHOP Endoscopy Course, 2/5-6/2010.
- 2011 Fellow Faculty, CHOP Endoscopy Course, 2/4/2011.
- 2011 Invited Faculty, Carolinas Airway Course, 10/13-14/11.
- 2012 Invited Faculty, CHOP Endoscopy Course, 2/4/12.
- 2012 Panelist. Tonsillectomy Task Trainer: ORL Simulation FORUM: A Potpourri from the Cutting Edge, AAO-HNS, 9/2012.
- 2013 Panelist. Critical Airway Response Teams. Presented at Annual Meeting of the American Society of Pediatric Otolaryngology, Alexandria, VA, 4/28/2013.
- 2013 Panelist. Efficacy of Surgical Simulators for Otolaryngology Training. Presented at AAO-HNS in Vancouver, BC, 10/2/2013.
- 2014 Surgery Grand Rounds - Visiting Professor. Pediatric Critical Airway Obstruction: Complex Systems of Care for Challenging Environments. Lurie Children's Hospital, Chicago IL, 9/15/2014.
- 2014 Panelist. Can Simulation and Human Factors Improve Systems and Safety? AAO-HNS Mini-seminar Presentation, 9/24/2014.
- 2015 Invited Graduation Speaker: Pediatric Dysphagia. Newton D. Fischer Graduation speaker, UNC graduation, 6/5/2015.
- 2015 Moderator and Speaker: Type 1 Laryngeal Cleft Management, Third Annual Contemporary Management of Aerodigestive Disease in Children conference, Denver, CO, 11/7/2015.
- 2016 Invited Lecture: Surgical Simulation in Otolaryngology: From Smoke and Mirrors to Safer Practices, 4th Annual Resident/Fellow Education Conference for the American Society of Pediatric Otolaryngology at AAO-HNS, 9/17/2016.
- 2016 Panelist: The Speech Pathologist and the Diagnosis and Management of Laryngeal Clefts. Aerodigestive Conference in Nashville, November 3rd, 2016.
- 2016 Panelist: Time Driven Activity Based Costing in an Aerodigestive Model. Aerodigestive Conference in Nashville, 11/3/2016.
- 2017 Invited Lecture: Simulation in Otolaryngology. Cincinnati Children's Hospital Fellow Reunion, Austin, 5/18/2017.

- 2017 Invited Lecture: When Spit Hits the Cords: Dysphagia and Aspiration in the Pediatric Patient. Society of Head & Neck Nurses at AAO-HNSF, 9/11/2017.
- 2017 Panelist: Time-Driven Activity-Based Costing Update. Aerodigestive Conference in Denver, 10/20/2017.
- 2018 Moderator: Posterior Glottic Stenosis: An International Roundtable, ASPO meeting in National Harbor, 4/21/2018.
- 2018 Panelist: TDABC - Using Value Based Care Models to Develop, Refine, and Negotiate for Interdisciplinary Clinics: Lessons from a Multi-Institutional Experience, ASPO meeting in National Harbor, 4/21/2018.
- 2019 Invited Graduation Speaker (Scheduled): Pediatric Dysphagia Contemporary Management. Eastern Virginia Medical School, 6/23/2019.

LOCAL/REGIONAL

- 2002 American Medical Student Association's Invited Presenter: The Inside Track: Academic Advice for Sophomore Year Success, 8/2002.
- 2004 Intern Lecture Series: Transfusion Medicine, 10/2004.
- 2005 Presentation to incoming Surgical Interns: Surgical Internship 101, 6/28/2005
- 2006 Interesting Case Presentation at Grand Rounds: Suprastomal Granuloma, 11/22/2005.
- 2006 Interesting Case Presentation at Grand Rounds: Upper Airway Obstruction and Facial Lesions, 4/4/2006.
- 2006 Grand Rounds Auricular Reconstruction, 4/25/2006.
- 2006 Navy Preoperative Conference presentation: Vascular Slings, 11/2006.
- 2006 Interesting Case Presentation at Grand Rounds: Dysphagia due to Esophageal Foreign Body, 12/7/2006.
- 2006 Navy Preoperative Conference presentation: Exploratory Tympanotomy, 4/2007.
- 2007 Grand Rounds: Venous Thrombo-Embolism Prophylaxis in Head and Neck Surgery, 5/11/2006.
- 2007 Navy Preoperative Conference presentation: Obstructive Sleep Apnea Surgery, 6/6/2006.
- 2007 Otolaryngology Resident Lecture: The Airway, 7/22/2007.
- 2007 Interesting Case Presentation at Grand Rounds: Idiopathic Pediatric Fronto-Ethmoid Mucocele, 12/18/2007.
- 2008 Interesting Case Presentation at Grand Rounds: Parathyroid Carcinoma, 8/9/2007.
- 2008 Otolaryngology Grand Rounds: Midface Fractures, 4/15/2008.
- 2008 Otolaryngology Resident Lecture: The Airway, 7/1/2008.
- 2008 Otolaryngology Resident Lecture: Head and Neck & Peds, 7/29/2008.
- 2008 Otolaryngology Resident Lecture: Endocrine Jeopardy, 8/26/2008.
- 2008-2009 Co-directed Weekly Resident In-Service Review Series for 3 months before the exam including 13 topics prepared and presented to residents, 12/2008-2/2009.
- 2009 Resident Lecture: Tympanoplasty Techniques, 2/3/2009.
- 2009 Resident Lecture: Labyrinthine Anatomy, 3/3/2009.
- 2009 Department Grand Rounds: Laryngomalacia and Supraglottoplasty 4/21/2009.
- 2009 Department Case Presentation: H1N1 Influenza Presenting as Bacterial Tracheitis, 10/28/2009.

- 2010 Invited presentation at State of the Department Address: Medical Simulation in Otolaryngology: The Department Simulation Initiative, 2/22/2010.
- 2010 Department Case Presentation: Pediatric Neck Mass: Ganglioneuroma, 2/24/2010.
- 2010 Department Case Presentation: Adolescent with Esophageal Web, 6/30/2010.
- 2011 Otolaryngology Resident Lecture: Emergency Airway Management, 7/6/2011.
- 2012 Emergency Medicine Fellow Lecture: Pediatric Airway Management, 1/27/2012.
- 2012 Otolaryngology Resident Lecture: Emergency Airway Management, 7/11/2012.
- 2013 Moderator. Challenging Airway Cases – Real and Simulated. Conversations in Pediatric Otolaryngology at Seattle Children’s Hospital, 9/27/2013.
- 2013 Otolaryngology Resident Lecture: Aerodigestive Program and Simulation, 10/28/2013.
- 2013 Invited Lecturer. Respiratory Airway Pathology. Infant Transport Team Conference, 12/5/2013.
- 2014 Invited Lecturer. Aerodigestive Evaluation and Treatment. Craniofacial Educational Retreat at Seattle Children’s Hospital, 1/13/2014.
- 2014 Invited Presenter. Bacterial Tracheitis and Croup. Institutional Patient Safety Conference, 9/3/2014.
- 2014 Invited presenter. Pediatric Airway Abnormalities and Indications for Tracheotomy: The Trach Safe Program. Regional Nursing Grand Rounds, 9/4/2014.
- 2014 Invited Presenter. Airway Pathology: Case-Based Challenges You May Have to Transport. Airlift Northwest Grand Rounds, 10/8/2014.
- 2015 Invited Lecturer: Laryngomalacia: Current Management and Pathophysiology, Aerodigestive Educational Conference, 3/17/2015.
- 2015 Surgical Unit Nursing Grand Rounds: Tracheostomy Emergency Management, 10/12/2015.
- 2015 NICU Grand Rounds: Airway Management, 5/19/2015.
- 2015 NICU Difficult Airway Course, Invited Faculty, 5/19/2015.
- 2015 Pediatric Feeding Association Invited Lecture: Aerodigestive Dysphagia, 5/19/2015.
- 2015 PEDScore Lecture to Pediatric Surgery Department: Airway Management, 5/28/2015.
- 2015 Invited Graduation Day Lecture: Humanitarian Mission to Honduras, 6/26/2015.
- 2015 Pediatric Grand Rounds Presentation: The Aerodigestive Program: A New Resource, 7/30/2015.
- 2015 Otolaryngology Resident Lecture: Aerodigestive Airway Endoscopy, 10/14/2015.
- 2016 Panelist: Controversies in Pediatric Sinusitis, Northwest Academy of Otolaryngology Meeting, 1/30/2016.
- 2016 Invited Lecture: Management of Otolaryngology Patients Post-Operatively, Pulmonary and Critical Care Medicine Division, 2/3/2016.
- 2016 Invited Lecture: Otolaryngologic Airway and Dysphagia Management, Otolaryngology Interest Group, 2/11/2016.
- 2016 Invited Lecture: Management of Laryngomalacia, Otolaryngology Nurse Practitioners Educational Lecture Series, 2/25/2016.
- 2016 Panel Moderator: Pediatric Neck Mass Evaluation: Case Presentations, Pediatric Otolaryngology Primary Care Update, 10/14/2016.

- 2016 Invited Graduation Day Lecture: Humanitarian Mission to Honduras, 6/17/2016.
- 2016 Panelist: Sleep Apnea. Current Management Techniques in Otolaryngology and Otolaryngology, Virginia Mason, 11/12/2016.
- 2016 Invited Lecturer: Pediatric Sleep Apnea. Current Management Techniques in Otolaryngology and Otolaryngology, Virginia Mason, 11/12/2016.
- 2017 Pediatric Fellow Lecture Series: Open Airway Management, 1/8/2017.
- 2017 Panelist: Tonsillectomy guidelines a case based review. Pediatric Otolaryngology Primary Care Update, 4/8/2017.
- 2017 Panelist: Managing the young child with chronic nasal discharge. Pediatric Otolaryngology Primary Care Update, 1/8/2017.
- 2017 Invited Graduation Day Lecture: Humanitarian Mission to Honduras, 6/16/2017.
- 2017 Pediatric Fellow Lecture Series: Airway and Sleep Surgery, 6/26/2017.
- 2017 Otolaryngology Resident Lecture Series: Congenital and Acquired Airway, 11/1/2017.
- 2018 Panelist: Pediatric Otolaryngology Panel, Northwest Academy of Otolaryngology Meeting, 1/27/2018.
- 2018 Otolaryngology Resident Lecture Series: Vascular Rings and Slings, 4/18/2018.
- 2018 Invited Graduation Day Lecture: Humanitarian Mission to Honduras, 6/15/2018.
- 2018 Invited Graduation Day Lecture: Humanitarian Mission to Costa Rica, 6/15/2018.

COURSES DIRECTED

- 2011-2012 Course Director, Cincinnati ENT Emergencies Simulation Boot Camp (yearly boot camp for junior residents)
- 2012-2013 Course Director, Midwest Airway Course (yearly regional airway course)
- 2014-Present Course Co-Director, UW Otolaryngology Emergencies Boot Camp for Residents & Fellows (yearly boot camp in the summer for UW trainees)
- 2014-Present Course Co-Director, Trach Safe Emergencies Course for regional nursing care facility and home care agency administrators and nurses (3x/year)
- 2016-Present Course Director / Co-Director: Northwest Airway Course (yearly training for residents & fellows in the spring with 3 institutions)

INTERNATIONAL MEDICAL TRIPS

- 2008-Present Organized and lead OTO-HNS yearly surgical team mission trips to Hospital Loma de Luz in Balfate Colon, Honduras
- 2017-Present Organized medical trip focused on teaching airway techniques at academic medical center in San Jose, Costa Rica

MENTORSHIP

A. FELLOWS

- | | | |
|-----------|---------------------|---|
| 2011-2012 | Nicholas Smith, MD | Associate Professor, University of Alabama |
| 2011-2012 | Derek Lam, MD, MPH | Assistant Professor, Oregon Health & Sciences U |
| 2011-2012 | Catherine Hart, MD | Assistant Professor, Cincinnati Children's |
| 2012-2013 | Charlie Myer, MD | Assistant Professor, Cincinnati Children's |
| 2012-2013 | Matt Provenzano, MD | Franciscan Health, Indiana |
| 2012-2013 | Angela Black, MD | Nemours Children's Hospital, Florida |
| 2013-2014 | Tianjie Shen, MD | Kaiser, California |

2014-2015	John Dahl, MD, PhD	Assistant Professor, University of Washington
2014-2015	David Zopf, MD	Assistant Professor, University of Michigan
2015-2016	Randall Bly, MD	Assistant Professor, University of Washington
2015-2016	Josephine Czechowicz, MD	Assistant Professor, University of California SF
2016-2017	Ryan Mitchell, MD, PhD	Assistant Professor, Indiana University
2016-2017	Neha Patel, MD	Assistant Professor, Manhattan Eye and Ear
2017-2018	Reema Padia, MD	Assistant Professor, University of Pittsburgh
2017-2018	Erin Kirkham, MD	Assistant Professor, University of Michigan

B. Residents

2015-2016	Michael Kao, MD, airway course, research projects
2016-2017	Malika Atmakuri, MD, research project
2016-2017	Sebastian Jara, MD, MPH practicum advisor
2017-2018	Austin Lam, MD, research project
2017-2018	Sarah Akkina, MD, airway course, research project
2017-2018	Hannan Queshi, MD, airway course, research project

C. Medical Students

2014	Daniel Dudley, UW Summer Program
2015	Mason Hinchcliff, research projects
2016-Present	Steve Coppess, UW Summer Program, research projects

EDITORIAL RESPONSIBILITIES

2010-Present	Otolaryngology – Head & Neck Surgery, Ad hoc reviewer
2010-Present	Laryngoscope, Ad hoc reviewer
2010-Present	International Journal of Pediatric Otolaryngology, Ad hoc reviewer

RESEARCH PRESENTATIONS

2007	Kaalan Johnson , Melissa Pineda, Craig Derkay. Neonatal Upper Airway Obstruction in Osteogenesis Imperfecta: A Series of 3 Cases and Review of the Literature. Invited Oral Presentation Osteogenesis Imperfecta 4th Annual International Conference, Baltimore, MD, 4/2007.
2007	Kaalan Johnson , Melissa Pineda, Craig Derkay. Neonatal Upper Airway Obstruction in Osteogenesis Imperfecta: A Series of 3 Cases and Review of the Literature. Podium Presentation at ABEA at COSM, San Diego, CA, 4/2007.
2007	Kaalan Johnson , David Bloom, Gretchen Meyer, Joseph DeChant. Auditory Dyssynchrony and Corpus Callosal Agenesis: A Clinically Significant Association. Podium Presentation at SENTAC 12/2007.
2007	Kaalan Johnson , Andrew Vaughan, Craig Derkay, Camille Welch, Alice Werner, M. Ann Kuhn, Sylvia Singletary, Peter Bondy. Microdebrider vs. Electrocautery: Randomized, Controlled Comparison of Tonsillar Wound Healing Histopathology in a Canine Model. Podium Presentation, EVMS Research Forum, Norfolk, VA, 6/2007.
2007	Kaalan Johnson , Andrew Vaughan, Craig Derkay, Camille Welch, Alice Werner, M. Ann Kuhn, Sylvia Singletary, Peter Bondy. Microdebrider vs. Electrocautery: Randomized, Controlled Comparison of Tonsillar Wound Healing

- Histopathology in a Canine Model. Podium Presentation, AAO-HNSF, Washington, DC, 9/2007.
- 2009 Joseph Han, **Kaalan Johnson**, Rachel Moebus. Histologic Examination of Chronic Rhinosinusitis Polyps. Virginia Society of Otolaryngology Annual Meeting, 5/2009.
- 2009 Joseph Han, **Kaalan Johnson**, Rachel Moebus. Histologic Examination of Chronic Rhinosinusitis Polyps. Podium Presentation, AAO-HNSF, San Diego, CA, 9/2009.
- 2010 **Kaalan Johnson**, Mike Nguyen, Jareen Meinzen-Derr, John Greinwald Jr. Pediatric High Frequency Sensorineural Hearing Loss. Podium Presentation, ASPO, Las Vegas, CA, 4/2010.
- 2011 Jeffrey Houlton, Alessandro deAlarcon, **Kaalan Johnson**, Jareen Meinzen-Derr, Susan Baker-Brehm, Barbara Weinrich, Ravindhra Elluru. Voice Outcomes Following Adult Cricotracheal Resection. ALA Award, Podium Presentation at ALA, Chicago, IL, 4/2011.
- 2011 **Kaalan Johnson**, Susan Baker Brehm, Barbara Weinrich, Jareen Meinzen-Derr, Alessandro deAlarcon. Comparison of Pediatric Voice Handicap Index with Perceptual Voice Analysis in Pediatric Patients with Vocal Fold Lesions. Podium Presentation, ASPO, Chicago, IL, 4/2011.
- 2011 **Kaalan Johnson**, Jennifer Oehler, Jeffrey Houlton, Gary Geis, Brian Pio, Benjamin Kerrey. High Fidelity Simulation to Assess Airway System of Care. Podium presentation at “Creating a Culture of Change” Regional Simulation Conference, Cincinnati OH 9/2011.
- 2011 **Kaalan Johnson**, Jennifer Oehler, Jeffrey Houlton, Gary Geis, Brian Pio, Benjamin Kerrey. High Fidelity Simulation to Assess Airway System of Care. Poster presentation at AAO-HNS, San Francisco, CA, 9/2011.
- 2012 **Kaalan Johnson**, Jeffrey Houlton, Jennifer Oehler, Jerome Bauer, Gary Geis, Benjamin Kerrey. Multi-Disciplinary Development of a High-Fidelity Simulation Scenario for Pediatric Airway Emergencies. Podium Presentation, International Meeting on Simulation in Healthcare, San Diego, CA, 1/2012.
- 2012 Peter Anderson, Jareen Meinzen-Derr, **Kaalan Johnson**. A Single Institution Otolaryngology Emergencies Boot Camp: Cost-Effective Resident Preparation. Poster presentation at ASPO, San Diego, CA, 4/2012.
- 2012 Marci J. Neidich, Angela P. Black, Catherine K. Hart, Lina Lander, Rahul K. Shah, **Kaalan E. Johnson**. Pediatric Epiglottitis: Predictors of Conservative Treatment. Poster presentation at AAO-HNS, Washington DC, 9/2012.
- 2012 Eric Gantwerker, Peter Toth, Matthew Provenzano, Jareen Meinzen-Derr, Charles M. Myer III, **Kaalan E. Johnson**. A Novel Low-Cost Task Trainer for Tonsillectomy Simulation. Poster presentation at AAO-HNS, Washington DC, 9/2012.
- 2013 Jennifer Oehler, Benjamin Kerrey, Jerome Bauer, Gary Geis, **Kaalan Johnson**. Simulation to Design and Implement a Critical Airway Team. Podium and poster presentation at the Emergency Nurses Association Annual Conference, Nashville, TN, 9/2013.

- 2013 Angela Donaldson, Allen Seiden, Gary McPhail, **Kaalan Johnson**. Pulmonary Function Test Decline Stable after First Sinus Surgery in Pediatric Patients with Cystic Fibrosis. Poster presented at ARS in Vancouver, BC, 9/28/2013.
- 2014 JP Giliberto, Nathan Wiebracht, Charles Myer IV, Keith Casper, **Kaalan Johnson**. Pilot Testing of a Novel Surgical Simulator for Endoscopic Zenker's Diverticulotomy. Podium presentation at ABEA in Las Vegas, NV, 5/14/2014.
- 2014 JP Giliberto, Nathan Wiebracht, Charles Myer IV, Keith Casper, **Kaalan Johnson**. Pilot Testing of a Novel Surgical Simulator for Endoscopic Zenker's Diverticulotomy. 1st Place Award for Podium presentations at Northeastern Ohio Otolaryngology Head & Neck Surgery Society, 10/8/2014.
- 2015 **Kaalan Johnson**, Daniel Dudley, Andy Inglis, Sanjay Parikh, Kim DeMarre, David Horn. Standardizing Laryngeal Cleft Evaluations: Feasibility of the Inter-Arytenoid Region Assessment Protocol. Poster presentation at ASPO in 4/23/2015.
- 2015 John P. Dahl, Evan J. Propst, Andrew F. Inglis, Jr, Robin T. Cotton, **Kaalan Johnson**. Comprehensive Reference Tools for Modern Airway Evaluations. Poster presentation at AAO-HNS 9/28/2015.
- 2015 April Landry, Catherine Hart, Meredith Tabangin, Jamie Gentile, Eric Gantwerker, **Kaalan Johnson**, Michael Rutter, Alessandro De Alarcon. Decannulation in children with a tracheotomy: Evaluation of a standardized protocol. Poster presentation at AAO-HNS 9/28/2015.
- 2015 Dahl JP, Miller C, Purcell PL, Zopf DA, **Johnson K**, Horn DL, Chen ML, Chan DK, Parikh SR. Airway Obstruction during Drug-Induced Sleep Endoscopy Correlates with Apnea-Hypopnea Index and Oxygen Nadir in Children. Podium presentation at AAO-HNS 9/2015.
- 2016 Jennifer Soares, Amanda M. Striegl, **Kaalan Johnson**, Leslie Elder, Sanjay Parikh, Thida Ong. Pre-discharge Airway Evaluation in Tracheostomy-Dependent Children: A Quality Improvement Safety Initiative. Poster presentation for American Thoracic Society, 5/2016.
- 2016 **Kaalan Johnson**, Pattaramon Chomchumpol, Amy Faherty, Kim DeMarre, Sanjay Parikh, Jennifer Soares, David Horn. Inter-Arytenoid Augmentation for Persistent Pharyngeal Dysphagia: Methods of Predicting Successful Outcomes. Poster presentation for ASPO 4/2016.
- 2016 Craig Miller, Patricia L Purcell, John P. Dahl, **Kaalan Johnson**, David Horn, Maida L Chen, Dylan K. Chan, Sanjay R Parikh. Does Brodsky tonsil score correlate with lateral pharyngeal wall obstruction seen on pediatric sleep endoscopy? Poster presentation for Triologic Society 4/2016.
- 2016 Richard Harbison, **Kaalan Johnson**, Greg Davis. Construct Validation of a Low-Cost, Non-Biologic, Sinus Surgery Task Trainer. Poster presentation to American Rhinologic Society Meeting at AAO-HNSF 9/17/2016.
- 2016 Michel Nassar, Rachel Kaye, Merona Hollingsworth, Jeremy Torrisi, Craig Miller, Randall Bly, **Kaalan Johnson**. Low cost laryngeal suturing simulator as a training model for otolaryngology residents and fellows. Simulation Showcase presentation for AAO-HNSF 9/19/2016.

- 2016 Michael Kao, Mason Hinchcliff, Spencer Brewer, Jason Speich, Troy Reihsen, **Kaalan Johnson**. Emergent surgical airway simulation – a low cost biologic model. Simulation Showcase presentation for AAO-HNSF 9/19/2016.
- 2016 Richard Harbison, Craig Miller, Maya Sardesai, Greg Davis, **Kaalan Johnson**. A modular low-cost otolaryngology task trainer. Simulation Showcase presentation for AAO-HNS 9/19/2016.
- 2016 Steven Coppess, Jennifer Soares, Matthew Waller, Mahek Shah, **Kaalan Johnson**. Methodology for Continuous Systematic Evaluation of an Aerodigestive Program: Cost Optimization in the Clinical Setting. Poster presentation for Aerodigestive Conference in Nashville, 11/4/2016.
- 2016 **Kaalan Johnson**, Pattaramon Chomchumpol, Amy Faherty, Kim DeMarre, Sanjay Parikh, Jennifer Soares, David Horn. Inter-Arytenoid Augmentation for Persistent Pharyngeal Dysphagia: Methods of Predicting Successful Outcomes. Podium presentation for Aerodigestive Conference in Nashville, 11/5/2016.
- 2017 Elizabeth Wick, **Kaalan Johnson**, Pattaramon Chomchumpol, Amy Faherty, Kim DeMarre, Sanjay Parikh, Jennifer Soares, David Horn. Reliability and construct validity of the penetration-aspiration scale for quantifying pediatric outcomes after interarytenoid injection augmentation. Podium presentation at ASPO in Austin Texas, 5/19/2017.
- 2017 Mason Hinchcliff, Michael Kao, **Kaalan Johnson**. The Importance of Technical Skills Assessment during an Airway Foreign Body Removal Course. Podium presentation at ASPO in Austin Texas, 5/19/2017.
- 2017 **Kaalan Johnson**, Neha Patel, Ryan Mitchell. Transoral Excision of Floor of Mouth Teratoid Cyst. PedsVideo presentation at ASPO in Austin Texas, 5/20/2017.
- 2017 Graham Strub, Ian Humphreys, **Kaalan Johnson**. Pilot Testing of a Reusable Orbital Hematoma Simulator. Poster presentation at AAO-HNS, 9/11/2017.
- 2017 Malika Atmakuri, Jennifer Reid, Kimberly Stone, Sanjay Parikh, Andrew F. Inglis, **Kaalan Johnson**. Simulation Based Assessment of ED Advanced Airway Cart. “Best In Show” Award, Best Overall Poster at AAO-HNSF, Project PI, 9/12/2017.
- 2017 Nathan Wiebracht, JP Giliberto, Keith Casper, **Kaalan Johnson**, Charles Myer IV. Pilot Testing of a Novel Surgical Simulator for Endoscopic Zenker’s Diverticulotomy. Top 3 Simulation Showcase presentation selected for “Sim Tank” event at AAO-HNS in Chicago, IL, 9/11/2017.
- 2017 Steve Coppess, Reema Padia, David Horn, Sanjay R. Parikh, Andy. Inglis, Daniel Dudley, Anthony Law, **Kaalan Johnson**. Standardizing Laryngeal Cleft Evaluations: Feasibility & Reliability of the Inter-Arytenoid Assessment Protocol. Poster Presentation at Aerodigestive Conference in Denver, 10/20/2017.
- 2018 Miller C, Kirkham E, Chen M, Ma CC, Horn DL, **Johnson KE**, Parikh SR. Polysomnography outcomes in children with small tonsils undergoing drug-induced sleep endoscopy directed surgery. Podium presentation at ASPO meeting in National Harbor, MD, 4/22/2018.
- 2018 Filipek F, Kirkham E, Chen M, Ma CC, Horn DL, **Johnson KE**, Parikh SR. Drug induced sleep endoscopy-directed surgery improves polysomnography

- measure sin overweight and obese children with obstructive sleep apnea. Podium presentation at ASPO meeting in National Harbor, MD, 4/21/2018.
- 2018 Kirkham E, Chen M, Ma CC, Flipek F, Horn DL, **Johnson KE**, Parikh SR. Drug induced sleep endoscopy-directed surgery improves polysomnography outcomes in complex and refractory pediatric sleep apnea. Podium presentation at ASPO meeting in National Harbor, MD, 4/21/2018.
- 2018 Steven Coppess, Reema Padia, David Horn, Sanjay R Parikh, Andrew Inglis, Randall Bly, John Dahl, Daniel Dudley, **Kaalan Johnson**. Standardizing Laryngeal Cleft Evaluations: Feasibility & Reliability of the Interarytenoid Assessment Protocol. Podium presentation at ASPO meeting in National Harbor, MD, 4/21/2018.
- 2018 Reema Padia, Craig Miller, Lance Patak, Seth D. Friedman, Kimberly Stone, Jeffrey Otjen, **Kaalan Johnson**. Simulation-Guided Tracheotomy in a Patient with Fibrodysplasia Ossificans Progressiva. Poster presentation at ABEA meeting in National Harbor, MD, 4/19/2018.
- 2018 Reema Padia, Steven Coppess, David Horn, Sanjay Parikh, Jennifer Hoang, Amy Faherty, Kimberley DeMarre, **Kaalan Johnson**. Pediatric Dysphagia: Is Interarytenoid Mucosal Height Significant? Podium presentation, ASPO meeting in National Harbor, MD, 4/21/2018.
- 2018 Steven Coppess, Jennifer Soares, Bianca Frogner, Kimberley DeMarre, Amy Faherty, Jennifer Hoang, Mahek Shah, Matthew MacKinnon, **Kaalan Johnson**. The OPPS/Cost method: A pilot study to assess value of care and quality improvement in pediatric aerodigestive disease. Podium presentation at ABEA meeting in National Harbor, MD, 4/19/2018.

RESEARCH SUPPORT

A. Current

2018-2019 NIH R21 Grant HD091687-01A1

Title: Validation of High-Fidelity Pediatric Airway Endoscopy Simulation

Total Costs: \$414,653

Role: Co-Investigator responsible for laryngoscopic and endoscopic fidelity testing of digital models and the next generation simulator prototypes.

PIs: Taylor Sawyer and Robert Sweet

2018-2021 CDC Grant #200-2016-91451, Subcontract #S270141-7

Title: Monitoring Juvenile Onset Recurrent Respiratory Papillomatosis

Total Costs: \$5,352 (for our site)

Role: Co-Investigator responsible for coordinating site collection of samples.

PI: Craig Derkay

B. Pending (N/A)

C. Past

2006-2007 Sponsor: Xomed Medtronic Incorporated

Title: Unrestricted Educational Grant: Tonsillectomy Technique Comparison in Beagle Model

Total Costs: \$105,000

Role: Primary Resident Co-Investigator

2011-2013 Sponsor: Institutional Support Funding Cincinnati Children's Hospital Medical Center

Title: The Simulation Initiative

Total Costs: 50% Salary Support for 2 years

Role: Principal Investigator responsible for building a simulation program.

2011-2013 Sponsor: NIH Loan Repayment Program

Title: Validation of High-Fidelity Pediatric Airway Endoscopy Simulation

Total Costs: \$54,879.80 2-year Grant

Role: Principal Investigator

2017 Sponsor: Sie-Hatsukami Research Endowment Grant

Title: Quality of Life Measures and Time Driven Activity Based Costing in Improving Efficiency and Clinical Outcomes of a Multi-Disciplinary Clinic

Total Costs: \$2,500.00 Grant

Role: Principal Investigator

PUBLICATIONS

A. Manuscripts Accepted /Published

1. Florea A, Zwart JE, Lee CW, Depew A, Park SK, Inman J, Wareham R, **Johnson K**, John E, Wall GM, Jung T. Effect of topical dexamethasone versus rimexolone on middle ear inflammation in experimental otitis media with effusion. *Acta Otolaryngol.* 2006; 126(9):910-5. PMID: 16864486.
2. **Kaalan Johnson**, Melissa Pineda, Craig Derkay. Neonatal Upper Airway Obstruction in Osteogenesis Imperfecta: A Series of 3 Cases and Review of the Literature. *Ann Otol Rhinol Laryngol.* 2008; 117(1):27-31. PMID: 18254368.
3. ***Kaalan Johnson**, Andrew Vaughan, Craig Derkay, Camille Welch, Alice Werner, M. Ann Kuhn, Sylvia Singletary, Peter Bondy. Microdebrider vs. Electrocautery: Randomized, Controlled Comparison of Tonsillar Wound Healing Histopathology in a Canine Model. *Otolaryngol Head Neck Surg.* 2008; 138(4):486-91. PMID: 18359359.
4. **Kaalan Johnson**, Craig Derkay. Palliative aspects of recurrent respiratory papillomatosis. *Otolaryngol Clin North Am.* 2009; 42(1):57-70. PMID: 19134490.
5. Brandon Hopkins, **Kaalan Johnson**, Jeff Ksiazek, Gordon Sun, John Greinwald, Mike Rutter. H1N1 influenza A presenting as bacterial tracheitis. *Otolaryngol Head Neck Surg.* 2010; 142(4):612-4. PMID: 20304287.
6. Jeffrey Houlton, Alessandro deAlarcon, **Kaalan Johnson**, Jareen Meizen-Derr, Susan Baker-Brehm, Barbara Weinrich, Ravindhra Elluru. Voice Outcomes Following Adult Cricotracheal Resection. *Laryngoscope.* 2011; 121(9):1910-4. PMID: 22024843.

7. **Kaalan Johnson**, Susan Baker Brehm, Barbara Weinrich, Jareen Meizen-Derr, Alessandro deAlarcon. Comparison of Pediatric Voice Handicap Index with Perceptual Voice Analysis in Pediatric Patients with Vocal Fold Lesions. *Arch Otolaryngol Head Neck Surg.* 2011; 137(12):1258-62. PMID: 22183908.
8. Stacey L. Ishman, MD, MPH, James R. Benke, BS, **Kaalan Johnson, MD**, Karen B Zur, MD, Ian Jacobs, MD, Marc C. Thorne, MD, MPH, David J Brown, MD, Sandra Y Lin, MD, Nasir Bhatti, MD, MPH, Ellen Deutsch, MD. Blinded Evaluation of Inter-rater Reliability of an Operative Competency Assessment Tool for Direct Laryngoscopy and Rigid Bronchoscopy. *Arch Otolaryngol Head Neck Surg.* 2012, 17:1-7. PMID: 22986639.
9. **Kaalan Johnson**, Meredith Tabangin; Jareen Meizen-Derr, Aliza P. Cohen, John Greinwald Jr. High Frequency Sensorineural Hearing Loss in Children. *Laryngoscope.* 2016; 126(5):1236-40. PMID: 26266337.
10. ***Kaalan Johnson**, Gary Geis, Jennifer Oehler, Jerome Bauer, Charles Myer III, Benjamin Kerrey. Simulation to implement a novel system of care for pediatric critical airway obstruction. *Arch Otolaryngol Head Neck Surg.* 2012; 138(10):907-11. PMID: 23069820.
11. Taylor Sawyer, Thomas Strandjord, **Kaalan Johnson**, Dan Low. Neonatal Airway Simulators, How Good Are They? A Comparative Study of Physical and Functional Fidelity. *J Perinatol.* 2016; 36(2):151-6. PMID: 26583944.
12. Dahl JP, Miller C, Purcell PL, Zopf DA, **Johnson K**, Horn DL, Chen ML, Chan DK, Parikh SR. Airway Obstruction during Drug-Induced Sleep Endoscopy Correlates with Apnea-Hypopnea Index and Oxygen Nadir in Children. *Otolaryngol Head Neck Surg.* 2016 Oct;155(4):676-80. PMID: 27301902
13. Harbison RA, **Johnson KE**, Miller C, Sardesai MG, Davis GE. Face, content, and construct validation of a low-cost, non-biologic, sinus surgery task trainer and knowledge-based curriculum. *Int Forum Allergy Rhinol.* 2017 Apr;7(4):405-413. PMID: 27865063
14. Miller C, Purcell PL, Dahl JP, **Johnson K**, Horn DL, Chen ML, Chan DK, Parikh SR. Clinically small tonsils are typically not obstructive in children during drug-induced sleep endoscopy. *Laryngoscope.* 2017 Aug;127(8):1943-1949. 28008627
15. ***JP Giliberto**, Nathan Wiebracht, Charles Myer IV, Keith Casper, **Kaalan Johnson**. Pilot Testing of a Novel Surgical Simulator for Endoscopic Zenker's Diverticulotomy. *Laryngoscope.* 2017 Mar; 127(3):592-596.
16. Liana Puscas, **Kaalan Johnson**, Sarah Bowe. Formal Debriefing in Simulation Education. *Otolaryngol Clin North Am. Surgical Simulation in Otolaryngology Edition.* 2017 Oct; 50(5):989-1001.
17. Michael J. Rutter, Catherine K. Hart, Alessandro de Alarcon, Sam J. Daniel, Sanjay R. Parikh, Karthik Balakrishnan, Derek Lam, **Kaalan Johnson**, Douglas Sidell. Endoscopic Anterior-Posterior Cricoid Split for Pediatric Bilateral Vocal Fold Paralysis. *Laryngoscope.* 2018 Jan; 128(1):257-263.
18. ***Hopper RA**, Kapadia HP, Susarla SM, Bly R, **Johnson K**. Counterclockwise Craniofacial Distraction Osteogenesis (C3DO) for tracheostomy dependent children with Treacher Collins syndrome. *Plast Reconstr Surg.* 2018 Aug;142(2):447-457. PMID: 29870506.
19. Noble A, Patel N, Mitchell R, Ou H, **Johnson K**. Pediatric floor of mouth teratoid cysts: A case series. *Otolaryngology Case Reports.* 2018 Jun; 7: 25-27.
<https://doi.org/10.1016/j.xocr.2018.05.001>

20. *Reema Padia, Craig Miller, Lance Patak, Seth D. Friedman, Kimberly Stone, Jeffrey Otjen, **Kaalan Johnson**. Simulation-Guided Tracheotomy in a Patient with Fibrodysplasia Ossificans Progressiva. Accepted by Laryngoscope on 7/27/2018.
21. Steven Coppess, Jennifer Soares, Bianca Frogner, Kimberley DeMarre, Amy Faherty, Jennifer Hoang, Mahek Shah, Matthew MacKinnon, **Kaalan Johnson**. The OPPS/Cost method: A pilot study to assess value of care and quality improvement in pediatric aerodigestive disease. Accepted by Laryngoscope on 8/15/2018.
22. Reema Padia, Steven Coppess, David Horn, Sanjay Parikh, Jennifer Hoang, Amy Faherty, Kimberley DeMarre, **Kaalan Johnson**. Pediatric Dysphagia: Is Interarytenoid Mucosal Height Significant? Accepted by Laryngoscope on 8/16/2018.

B. Manuscripts Submitted / Undergoing Review

1. Christopher Hartnick, Mahek Shah, Steve Coppess, **Kaalan Johnson**, Jeremy Prager, Christopher Wootten, Robert Kaplan. Multicenter Analysis of Value Opportunities in Pediatric Integrated Units. Submitted to Pediatrics on 7/26/2018.
2. Mason Hinchcliff, Michael Kao, **Kaalan Johnson**. The Importance of Technical Skills Assessment during an Airway Foreign Body Removal Course. Submitted to IJPO 8/29/2018.
3. Steven Coppess, Reema Padia, David Horn, Sanjay R Parikh, Andrew Inglis, Randall Bly, John Dahl, Daniel Dudley, **Kaalan Johnson**. Standardizing Laryngeal Cleft Evaluations: Feasibility & Reliability of the Interarytenoid Assessment Protocol. Submitted to OTO-HNS on 5/4/2018.
4. Kirkham E, Chen M, Ma CC, Filipek F, Horn DL, **Johnson KE**, Parikh SR. Drug induced sleep endoscopy-directed surgery improves polysomnography outcomes in complex and refractory pediatric sleep apnea. Submitted to OTO-HNS on 7/20/2018.
5. Filipek F, Kirkham E, Chen M, Ma CC, Horn DL, **Johnson KE**, Parikh SR. Drug induced sleep endoscopy-directed surgery improves polysomnography measure sin overweight and obese children with obstructive sleep apnea. Submitted to JAMA OTO on 7/27/2018.
6. Miller C, Kirkham E, Chen M, Ma CC, Horn DL, **Johnson KE**, Parikh SR. Polysomnography outcomes in children with small tonsils undergoing drug-induced sleep endoscopy directed surgery. Submitted to Laryngoscope on 8/12/2018.
7. Malika Atmakuri, Jennifer Reid, Kimberly Stone, Sanjay Parikh, Andrew F. Inglis, **Kaalan Johnson**. Simulation Based Assessment of ED Advanced Airway Cart. Submitted to OTO-HNS on 8/16/2018.
8. AL Miller, CJ Hersh, **KE Johnson**, CJ Hartnick. Short-Term Swallowing Outcomes Following Type 1 Laryngeal Cleft Injection. Submitted to IJPO on 8/29/2018.

C. Book Chapters/ Educational Material

1. David Darrow, **Kaalan Johnson**. Book Chapter: Management of Sleep-Related Breathing Disorders in Children. Sleep Apnea and Snoring: Surgical and Non-surgical Therapy. Michael Friedman, MD. Published 2008

D. Published Books, Videos, Software, etc.

1. Kaalan Johnson, Neha Patel, Ryan Mitchell. Transoral Excision of Floor of Mouth Teratoid Cyst. ASPO Educational Video Website Content. <http://aspo.us/pedsvideoto/>