

CURRICULUM VITAE

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Aykut A. Unsal, DO, MS

CONTACT INFORMATION

Professional

Thomas Jefferson University
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EDUCATION

2009 – 2013 *Doctorate of Osteopathic Medicine*
University of Medicine & Dentistry of New Jersey
Stratford, New Jersey

2006 – 2008 *Masters in Science: Biomedical Sciences*
University of Medicine & Dentistry of New Jersey
Newark, New Jersey

2002 – 2006 *Major: Biology*
Minor: Computer Science & Music
Boston College
Chestnut Hill, Massachusetts

1998 – 2002 Mahwah High School
Mahwah, New Jersey

SUPPLEMENTAL COURSES

June – August
2007, 2008 *BioMEMS Design and Applications*
Electrical Fundamentals of Biomedical Engineering
Mechanical Fundamentals of Biomedical Engineering
Biological and Chemical Foundations of Biomedical Engineering
BioMEMS Bioengineering Institute – Microfabrication Laboratory
New Jersey Institute of Technology

July 2014 *Otolaryngology Emergencies Boot Camp*
Georgetown University

January 2015 *International Endoscopic Sinonasal and Skull Base Anatomy and Surgical*
Techniques Course
University of Miami

March 2016 *Temporal Bone Surgical Dissection Course*
Michigan Ear Institute

May 2016	<i>SimFest – Penn Medicine Surgical Simulation Course</i> University of Pennsylvania
April 2017	<i>Advances in Facial Reconstruction & Cosmetic Surgery</i> Icahn School of Medicine at Mount Sinai
May 2017	<i>Head and Neck Cancer and Reconstructive Surgery Course</i> University of Iowa
June 2017	<i>Endoscopic Sinonasal and Skull Base Anatomy and Facial Reconstruction Course</i> Rutgers New Jersey Medical School
August 2017	<i>Principles of Operative Treatment of Craniomaxillofacial Trauma & Reconstruction</i> AOCMF, Boston, Massachusetts
May 2018	<i>Advanced Sinus and Skull Base Course</i> American Rhinologic Society, Evanston, Chicago
April 2019	<i>Rhinologic Lectures and Laboratory Dissection</i> Southern States Rhinology Symposium

POSTGRADUATE TRAINING

2013 – 2014	<i>Surgical Internship</i> Rowan University SOM/Thomas Jefferson Health System Stratford, New Jersey
2014 – 2017	<i>Resident, Otolaryngology & Facial Plastic Surgery</i> Rowan University SOM/Thomas Jefferson Health System Stratford, New Jersey
2016 – 2018	<i>Rotating Resident, Head and Neck Oncologic Surgery</i> Memorial Sloan Kettering Cancer Center New York, New York
2017 – 2018	<i>Visiting Resident</i> University of Pennsylvania – Department of Otorhinolaryngology Philadelphia, Pennsylvania
2017 – 2018	<i>Chief Resident, Department of Otolaryngology & Facial Plastic Surgery</i> Rowan University SOM/Thomas Jefferson Health System Stratford, New Jersey
2018 – 2019	<i>Fellow, Rhinology & Skull Base Surgery</i> Medical College of Georgia – Augusta University Augusta, Georgia

ACADEMIC APPOINTMENTS

2019 – Present *Assistant Professor, Department of Otolaryngology – Head & Neck Surgery*
Drexel University College of Medicine
Philadelphia, Pennsylvania

EMPLOYMENT HISTORY

2020 – Present *Otolaryngologist*
Department of Otolaryngology – Head & Neck Surgery
Thomas Jefferson University

2019 – 2020 *Otolaryngologist*
Philadelphia, Ear, Nose & Throat Associates

SOFTWARE DEVELOPMENT

2020 – Present *Software Developer*
COVID Smell Tracker, mobile app
A research-based app developed to study the relationship between
COVID-19 infection and anosmia
www.covidsmelltracker.org

2018 – Present *Software Developer*
Scrubbed, mobile app
Crowdsourced clinical question bank
www.scrubbedapp.com

2008 – 2010 *Co-Founder*
Kazoo Interactive, LLC
Educational Facebook application for students (currently discontinued)

2003 – 2008 *Software Developer, Consultant*
Stryker Corporation, Orthopedic Division
Mahwah, New Jersey

BOARD CERTIFICATION

2019 *Certification in Otolaryngology & Facial Plastic Surgery*
American Osteopathic Board of Otolaryngology – Head & Neck Surgery

LICENSURE

<u>State</u>	<u>License Number</u>	<u>Issued</u>	<u>Expiration</u>
Delaware	C7-0006136	2/11/2016	3/31/2018
Georgia	080410	5/2/2018	6/30/2019
Pennsylvania	OS019971	4/10/2019	10/31/2020

HONORS AND AWARDS

- 2017 *Travel Award Recipient*
Triological Society Combined Sections Meeting
New Orleans, Louisiana
- 2017 *Second Place, Top Research Award*
“Transatlantic Differences in Survival for Major Salivary Gland Cancer”
Combined Otolaryngology Spring Meeting – Triological Society
San Diego, California
- 2019 *Travel Award Recipient*
Triological Society Combined Sections Meeting
Coronado, California

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- 2013 – Present American Academy of Otolaryngology – Head and Neck Surgery
- 2013 – Present American Osteopathic Association
- 2014 – Present Triological Society
- 2014 – Present American Rhinologic Society
- 2014 – 2018 New Jersey Association of Osteopathic Physicians and Surgeons

PROFESSIONAL COMMITTEES

- 2015 – 2016 *Member*
Medical Devices and Drugs Committee
American Academy of Otolaryngology – Head and Neck Surgery
- 2015 – 2016 *Member*
Medical Informatics Committee
American Academy of Otolaryngology – Head and Neck Surgery

EDUCATIONAL ACTIVITIES

- 2011 – 2013 *Anatomy Lab Tutor*
University of Medicine and Dentistry
Stratford, New Jersey
- 2018 *Author – Learning Module: Paranasal and Nasal Malignancies*
<https://www.otosource.org/content/paranasal-and-nasal-malignancies>
Otosource – Head and Neck Surgery
American Academy of Otolaryngology – Head and Neck Surgery Foundation
- October - 2019 *Lecture: Vascular Anomalies of the Head and Neck*

Department of Otolaryngology & Facial Plastic Surgery
Philadelphia College of Osteopathic Medicine
Philadelphia, Pennsylvania

October - 2019 *Lecture: Cleft Lip and Palate*
Department of Otolaryngology & Facial Plastic Surgery
Philadelphia College of Osteopathic Medicine
Philadelphia, Pennsylvania

November - 2019 *Lecture: Clinical Esophagology*
Department of Otolaryngology & Facial Plastic Surgery
Philadelphia College of Osteopathic Medicine
Philadelphia, Pennsylvania

BIBLIOGRAPHY

* indicates peer reviewed journal

1. *Bhojwani A, **Unsal A**, Dubal PM, Baredes S, Liu K, Eloy JA. Frontal Sinus Malignancies: A Population-Based Analysis of Incidence and Survival. *Otolaryngology – Head and Neck Surgery* 2016; 154:735-741.
2. *Dubal PM, **Unsal AA**, Chung SY, Patel AV, Park RCW, Baredes S, Eloy JA. Population-based trends in outcomes in adenoid cystic carcinoma of the oral cavity. *American Journal of Otolaryngology* 2016; 37:398-406.
3. *Dubal PM, **Unsal AA**, Echanique KA, Vazquez A, Reder LS, Baredes S, Eloy JA. Laryngeal adenosquamous carcinoma: A population-based perspective. *Laryngoscope* 2016; 126:858-863.
4. ***Unsal AA**, Dubal PM, Patel TD, Vazquez A, Baredes S, Liu JK, Eloy JA. Squamous cell carcinoma of the nasal cavity: A population-based analysis. *Laryngoscope* 2016; 126:560-565.
5. **Unsal AA**. New rules for a new era: U.S. FDA imposes new tobacco product regulations. *American Academy of Otolaryngology – Head and Neck Surgery: Bulletin*; 2016; 25:8.
6. *Chin OY, Dubal PM, Sheikh A, **Unsal AA**, Park RCW, Baredes S, Eloy JA. Laryngeal chondrosarcoma: A systematic review of 592 cases. *Laryngoscope* 2017; 127:430-439.
7. *Chung SY, **Unsal AA**, Kilic S, Baredes S, Liu JK, Eloy JA. Pediatric sinonasal malignancies: A population-based analysis. *International Journal of Pediatric Otorhinolaryngology* 2017; 98:97-102.
8. *Kilic S, **Unsal AA**, Chung SY, Samarraï R, Kilic SS, Baredes S, Eloy JA. Geographic region: Does it matter in cutaneous melanoma of the head and neck? *Laryngoscope* 2017; 127:2763-2769.

9. ***Unsal AA**, Chung SY, Unsal AB, Baredes S, Eloy JA. A Population-Based Analysis of Survival for Sinonasal Rhabdomyosarcoma. *Otolaryngology – Head and Neck Surgery* 2017; 157:142-149.
10. ***Unsal AA**, Chung SY, Zhou AH, Baredes S, Eloy JA. Sinonasal adenoid cystic carcinoma: a population-based analysis of 694 cases. *International Forum of Allergy & Rhinology* 2017; 7:312-320.
11. ***Unsal AA**, Patel VR, Chung SY, Zhou AH, Baredes S, Eloy JA. Head and neck sweat gland adenocarcinoma: A population-based perspective of a rare entity. *Laryngoscope* 2017; 127:2757-2762.
12. *Zhou AH, Chung SY, Patel VR, **Unsal AA**, Hsueh WD, Baredes S, Eloy JA. et al. Do geographic differences or socioeconomic disparities affect survival in sinonasal squamous cell carcinoma? *International Forum of Allergy & Rhinology* 2017; 7:1195-1200.
13. *Traylor K, Iaia A, **Unsal AA**, Teixido M, Agnello F, Sparacia G. Unusual Imaging Manifestations of Severe Bilateral Cochlear Otosclerosis. *Delaware Medical Journal* 2018; 90: 20-22
14. ***Unsal AA**, Gregory N, Rosenstein K. Current opinions in office-based rhinology. *Current Opinions in Otolaryngology – Head and Neck Surgery* 2018; 26:8-12.
15. ***Unsal AA**, Kilic S, Dubal PM, Baredes S, Eloy JA, Group E-W. A population-based comparison of European and North American sinonasal cancer survival. *Auris Nasus Larynx* 2018; 45:815-824.
16. ***Unsal AA**, Unsal AB, Henn TE, Baredes S, Eloy JA. Cutaneous squamous cell carcinoma of the lip: A population-based analysis. *Laryngoscope* 2018; 128:84-90.
17. ***Unsal AA**, Booth JR, Rossi NA, Byrd JK, Kountakis SE. Basaloid nasopharyngeal carcinoma: A population-based analysis of a rare tumor. *Laryngoscope* 2019 Dec;129(12):2727-2732
18. ***Unsal AA**, Dubal PM, Pfaff JA, Friedel ME, Eloy JA, Kountakis SE. Doctor Google: Correlating Internet search trends for epistaxis in metropolitan climates. *American Journal of Otolaryngology* 2019 May – Jun;40(3):358-363.
19. *Booth JR, **Unsal AA**, Tadros S, Byrd JK, Kountakis SE. Salivary Gland Cancers of the Nasopharynx: A Population-Based Analysis of 383 Cases. *Otolaryngology – Head and Neck Surgery* 2019. 2019 Sep; 161(3):442-449.
20. *Sharbel D, **Unsal AA**, Groves M, Albergotti G, Byrd JK. Salivary Clear Cell Carcinoma Clinicopathologic Characteristics and Outcomes: A Population-Based Analysis. *Annals of Otolaryngology, Rhinology, & Laryngology* 2019 Nov; 128(11):989-996.

21. **Unsal AA**. Demographics and Outcomes in Chronic Rhinosinusitis. *Audio-Digest Otolaryngology*. November 21, 2019. Volume 52, Issue 23.
22. *Sharbel D, Li M, **Unsal AA**, Tadros S, Lee J, Biddinger P, Holmes T, Kountakis SE. Use of Mucosal Eosinophil Count as a Guide in the Management of Chronic Rhinosinusitis. *International Forum of Allergy & Rhinology*. 2020 Jan 12.
23. *Makary CA, Gill B, Parman B, **Unsal AA**, Holmes T, Reyes-Gelves C, Kountakis SE. Subjective and Objective Measurements of Sinonasal Manifestations in Patients With Autoimmune Disorders. *Laryngoscope*. 2020 Apr 23. In press
24. *Holmes T, Makary C, **Unsal AA**, Biddinger P, Reyes-Gelves C, Kountakis SE. How Does Age Impact Presentation and Outcomes in Chronic Rhinosinusitis? *Annals of Otolaryngology, Rhinology, & Laryngology*. 2020 May 9:3489420919124
25. ***Unsal AA**, Reyes-Gelves C, Biddinger P, Kountakis SE. Eosinophilic Mucin: A Predictor for Disease Severity in Chronic Rhinosinusitis. *American Journal of Rhinology & Allergy*. 2020. In Press

BOOK CHAPTERS

1. **Unsal AA**, Kilic S, Svider P, Eloy JA. Management of Frontal Sinus Malignancies. In: Lal D, Hwang PH (eds), *Frontal Sinus Surgery: A Systematic Approach*. New York, NY: Springer; 2019

ABSTRACTS

1. *Alapati S, **Unsal AA**, Cracchiolo K, Roman B, Lee N, Cohen M. Incidence and Distribution of Nodal Metastasis in Sinonasal Malignancy. *International Journal of Radiation Oncology* 2018; 100-5; 1384.

PRESS ARTICLES

1. Brunk D “Asthma patients with sinusitis, polyps, fare poorer after sinus surgery” *CHEST Physician*. January 26, 2019.
<https://www.mdedge.com/chestphysician/article/193324/asthma/asthma-patients-sinusitis-polyps-fare-poorly-after-sinus>

ANTICIPATED PUBLICATIONS

1. Holmes T, **Unsal AA**, Gupta S, Biddinger P, Kountakis SE. Effects of Eosinophilia And Nasal Polyposis on Quality of Life in Chronic Rhinosinusitis Patients with Concurrent Asthma
2. Blumenthal D, **Unsal AA**, Holmes T, Biddinger P, Kountakis SE. Gender and Chronic Rhinosinusitis – A Long-term Outcomes-based Analysis

PRESENTATIONS/POSTERS

1. **Unsal AA**. A Geometric Basis for the Analysis of Multiple Sequence Alignments. *Boston College Undergraduate Research Day*. May 2006.
2. **Unsal AA**, Ivanov D. BioMEMS: A Novel Approach to Blood Typing. *National Institute of Health- National Science Foundation Annual BBSI Meeting*. Washington, DC. July 2008.
3. **Unsal AA**, Dubal PM, Patel TD, Vazquez A, Baredes S, Liu JK, Eloy JA. Metastatic Squamous Cell Carcinoma of the Nasal Cavity: A Population-Based Analysis. *American Rhinologic Society Annual Fall Meeting*; Dallas, Texas, Sept 26, 2015.
4. **Unsal AA**, Chung SY, Zhou AH, Baredes S, Eloy JA. Sinonasal Adenoid Cystic Carcinoma: A Population Analysis of 694 Cases. *American Rhinologic Society Annual Fall Meeting*; San Diego, California, Sept. 17, 2016
5. Wong A, **Unsal AA**, Chung SY, Desai SV, Sylvester MJ, Baredes S, Eloy JA. A Population-Based Analysis of Survival of Sinonasal Rhabdomyosarcoma. *American Rhinologic Society Annual Fall Meeting*; San Diego, California, Sept 17, 2016.
6. Chung SY, **Unsal AA**, Wong A, Desai SV, Filimonov A, Aboud M, Eloy JA. Pediatric Sinonasal Malignancies: A Population-Based Analysis. *American Rhinologic Society Annual Fall Meeting*; San Diego, California, Sept 17, 2016.
7. Chung SY, Patel VR, **Unsal AA**, Zhou AH. Geographic Differences in Disease-Specific Survival of Head and Neck Mucosal Melanoma: A Population Based Analysis. *Triological Society Combined Sections Meeting*; New Orleans, Louisiana, Jan 19-21, 2017
8. **Unsal AA**, Patel VR, Chung SY, Zhou AH. Disease-Specific Survival in Head and Neck Sweat Gland Adenocarcinoma: A Population Based Analysis of 627 Cases. *Triological Society Combined Sections Meeting*; New Orleans, Louisiana, Jan 19-21, 2017
9. Chung SY, Zhou AH, **Unsal AA**, Patel VR, Baredes S, Eloy JA. Regional Differences in Sinonasal Adenoid Cystic Carcinoma. *Triological Society Combined Sections Meeting*; New Orleans, Louisiana, Jan 19-21, 2017
10. Chung SY, Zhou AH, **Unsal AA**, Patel VR, Baredes S, Eloy JA. Do Geographic Differences or Socioeconomic Disparities Affect Survival in Sinonasal Squamous Cell Carcinoma? *Triological Society Combined Sections Meeting*; New Orleans, Louisiana, Jan 19-21, 2017
11. Kilic S, **Unsal AA**, Chung SY, Baredes S, Eloy JA. Geographical Region: Does it Matter in Cutaneous Melanoma of the Head and Neck? *Triological Society Combined Sections Meeting*; New Orleans, Louisiana, Jan 19-21, 2017

12. Mendelson ZS, Kilic S, Kilic SS, **Unsal AA**, Baredes S, Eloy JA. Survival for Thyroid Cancer in the 21st Century: Europe vs. United States. *Combined Otolaryngology Spring Meeting – Triological Society*; San Diego, California April 26-30, 2017
13. Kilic S, Kilic SS, Mendelson ZS, **Unsal AA**, Baredes S, Eloy JA. Transatlantic Differences in Survival for Lip Cancer: Europe vs. United States. *Combined Otolaryngology Spring Meeting – Triological Society*; San Diego, California April 26-30, 2017
14. Kilic S, Kilic SS, Mendelson ZS, **Unsal AA**, Baredes S, Eloy JA. Transatlantic Differences in Survival for Major Salivary Gland Cancer: Europe vs. United States. *Combined Otolaryngology Spring Meeting – Triological Society*; San Diego, California April 26-30, 2017
15. Temmermand DA, **Unsal AA**, Dubal PM, Romeo SJ, Eloy JA. Oropharyngeal Non-Keratinizing SCC: A SEER Analysis. *American Academy of Otolaryngology-Head and Neck Surgery Annual Conference*; Chicago, Illinois September 10-13, 2017
16. **Unsal AA**, Romeo S, Reddy R, Kiliç S, Eloy JA, EURO CARE-5 Working Group. Esthesioneuroblastoma: A Comparison Study of The EURO CARE And SEER Population Databases. *American Rhinologic Society Meeting*, Chicago, IL, September 9, 2017.
17. **Unsal AA**, Temmermand DA, Kiliç S, Baredes S, Eloy JA, EURO CARE-5 Working Group. Sinonasal Mucosal Melanoma: A Population-Based Comparison of the EURO CARE and SEER Registries. *American Rhinologic Society Meeting*, Chicago, IL, September 9, 2017.
18. Temmermand DA, **Unsal AA**, Romeo S, Eloy JA. Oropharyngeal Non-Keratinizing SCC: A SEER Analysis. *American Academy of Otolaryngology – Head and Neck Surgery Meeting*, Chicago, IL, September 10, 2017.
19. Alapati S, **Unsal AA**, Cracchiolo J, Roman B, Lee N, Cohen M. Incidence and Distribution of Nodal Metastasis in Sinonasal Malignancy. *Combined Otolaryngology Spring Meeting – Triological Society*; National Harbor, MD April 18-22, 2017
20. Joshi R, **Unsal AA**, Cracchiolo J, Migliacci J, Roman B, Cohen M. An Analysis of Endoscopic and Open Approaches to Sinonasal Malignancies in the National Cancer Database from 2010 to 2014. *North American Skull Base Society Annual Meeting*; Coronado, CA February 2, 2018
21. **Unsal AA**, Dubal PM, Pfaff JA, Friedel ME, Eloy JA, Kountakis SE. Epistaxis and Weather: Correlating Internet Search Activity with Climate Data. *American Rhinologic Society Annual Meeting*; Atlanta, GA October 5, 2018.
22. Romeo SJ, **Unsal AA**, Claudine J, Zhang Z, Teixido M. Migraine Symptoms and Weather: An Investigation of Climate Triggers Using Internet Search Activity. *Triological Society Combined Sections Meeting*; Coronado, California, Jan 24-26, 2019

23. **Unsal AA**, Tadros S, Holmes T, Kountakis SE. Gender and Chronic Rhinosinusitis: An Investigation of Subtypes and Quality of Life. *Triological Society Combined Sections Meeting*; Coronado, California, Jan 24-26, 2019
24. Tadros S, **Unsal AA**, Holmes T, Kountakis SE. Effects of Eosinophilia and Nasal Polyposis on Quality of Life in Chronic Rhinosinusitis Patients with Asthma. *Triological Society Combined Sections Meeting*; Coronado, California, Jan 24-26, 2019
25. Sharbel D, **Unsal AA**, Groves M, Albergotti G, Byrd JK. Salivary Clear Cell Carcinoma Clinicopathologic Characteristics and Outcomes: A Population-Based Analysis. *Combined Otolaryngology Spring Meeting—American Head and Neck Society*; Austin TX May 1-2, 2019
26. Parman B, Makary C, Gill B, Holmes T, **Unsal AA**, Reyes C, Kountakis SE. Sinonasal anatomic variants in allergic fungal rhinosinusitis. *Triological Society Combined Sections Meeting*; Coronado, California, Jan 23-25, 2020.
27. Gill B, Makary C, Parman B, Holmes T, **Unsal AA**, Reyes C, Kountakis SE. Sinonasal Manifestations of Autoimmune Disease. *Triological Society Combined Sections Meeting*; Coronado, California, Jan 23-25, 2020.