Stanford



CLINICAL OFFICE (PRIMARY)

· Otolaryngology - Head and Neck Surgery

Uchechukwu Megwalu, MD, MPH

Professor of Otolaryngology - Head & Neck Surgery (OHNS) Otolaryngology (Head and Neck Surgery) NIH Biosketch available Online 1 Curriculum Vitae available Online

ACADEMIC CONTACT INFORMATION

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Bio

BIO

Dr. Megwalu was born in Ottawa, Ontario, Canada, but spent most of his childhood in Nigeria. He received his undergraduate degree from McMaster University in Hamilton, Ontario, Canada. Dr. Megwalu received his medical degree from Washington University School of Medicine, completed his residency at New York Eye and Ear Infirmary, and received his MPH degree from Icahn School of Medicine at Mount Sinai. After residency, Dr. Megwalu joined the faculty at Icahn School of Medicine at Mount Sinai, where he served as Director of Otolaryngology at Queens Hospital Center, and Assistant Regional Director of Otolaryngology for Queens Health Network from 2011 to 2015.

Dr. Megwalu Joined the Division of Comprehensive Otolaryngology at Stanford in 2016. His clinical interests include thyroid and parathyroid disorders, head and neck tumors, sinusitis, and chronic ear disorders. Dr. Megwalu conducts outcomes/health services research, with a focus on health literacy, health disparities, and comparative effectiveness research.

CLINICAL FOCUS

- Comprehensive Otolaryngology
- Thyroid Neoplasms
- Thyroid Cancer
- Parathyroid Neoplasms
- Salivary gland tumors
- Chronic sinusitis
- Endoscopic Sinus Surgery
- Otitis Media
- Tympanoplasty
- Otolaryngology

ACADEMIC APPOINTMENTS

• Professor - University Medical Line, Otolaryngology (Head and Neck Surgery)

• Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Division Chief, Comprehensive Otolaryngology, Stanford University School of Medicine, (2019- present)
- Otolaryngology Clerkship Director, Stanford University School of Medicine, (2017- present)
- Director of Otolaryngology, Queens Hospital Center, Jamaica, NY, USA, (2011-2015)
- Assistant Regional Director of Otolaryngology, Queens Health Network, Queens, NY, USA, (2011-2015)

HONORS AND AWARDS

- New York City Health and Hospitals Corporation Doctor's Day Award, New York City Health and Hospitals Corporation (May, 2015)
- Senator Jose Peralta Certificate of Recognition, New York State Senate (January, 2015)
- New York City Council Citation, New York City Council (January, 2015)
- Certificate of Special Congressional Recognition, US Congressman Joseph Crowley (January, 2015)
- Queens Courier Rising Stars Award, Queens Courier (January, 2015)
- Hyun Taik Cho, MD Research Scholarship Award, New York Eye and Ear Infirmary (November, 2009)
- Robert Carter Medical School Award, Washington University School of Medicine (5/19/2006)
- Distinguished Minority Medical Scholar, Washington University School of Medicine (8/10/2002 5/19/2006)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

• Member, American Academy of Otolaryngology – Head and Neck Surgery (2006 - present)

PROFESSIONAL EDUCATION

- Medical Education: Washington University School Of Medicine Registrar (2006) MO
- Board Certification: Otolaryngology, Royal College of Physicians and Surgeons of Canada (2012)
- Board Certification: Otolaryngology, American Board of Otolaryngology (2012)
- Residency: New York Eye and Ear Infimary (2011) NY
- Internship: New York Eye and Ear Infimary (2007) NY
- MD, Washington University School of Medicine , Medicine (2006)
- Residency, New York Eye and Ear Infirmary, Otolaryngology Head and Neck Surgery (2011)
- Board Certification, American Board of Otolaryngology, Otolaryngology Head and Neck Surgery (2012)
- Board Certification, Royal College of Physicians and Surgeons of Canada, Otolaryngology Head and Neck Surgery (2012)
- MPH, Icahn School of Medicine at Mount Sinai , Public Health Outcomes Research Track (2014)

LINKS

• My Lab Site: https://med.stanford.edu/megwalu-lab.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I have an interest in Outcomes/Health Services Research. Specific areas of interest include: health disparities, head and neck cancer epidemiology and comparative

effectiveness research using large population-based cancer databases.

Head and Neck Cancer Epidemiology and Comparative Effectiveness:

Head and neck cancer is the seventh most common cancer in the world. It accounts for approximately 10% of cancers, with an estimated 130,000 new cases in the United States in 2015. Head and neck cancer is an important cause of cancer mortality, with an average 5-year cumulative survival of 65% in the United States. My research interest is in the use of large datasets, such as the SEER database, to evaluate the impact of sociodemographic and clinical factors on treatment choice and survival outcomes. Ongoing work includes evaluating the comparative effectiveness of treatment options in the management of head and neck cancer.

Understanding Head and Neck Cancer Disparities:

Significant sociodemographic disparities exist in head and neck cancer outcomes. African Americans, uninsured/underinsured patients, and patients with low socioeconomic status have poor outcomes. They are more likely to be diagnosed with advanced disease, are less likely to receive adequate treatment, resulting in lower survival rates. The mechanisms that drive these disparities are not yet clearly understood. My research focuses on understanding the drivers of disparities in HNC outcomes, in order to develop interventions aimed at reducing them.

Hearing loss and hearing healthcare access:

Hearing loss is the fourth highest cause of disability globally, with 466 million people suffering from disabling hearing loss worldwide. Hearing loss is associated with diminished quality of life due to communication difficulties and limitations in activities of daily living. My research efforts have focused on evaluating the impact of hearing loss on health outcomes, and addressing barriers to hearing healthcare access. I served as the principal investigator in all of these studies. My current research focuses on assessing the comparative effectiveness of strategies to improve hearing health care use, and understanding disparities in hearing loss risk and hearing healthcare access.

Health literacy:

Health literacy is the degree to which individuals have the capacity to obtain, process, and understand basic information and services needed to make appropriate decisions regarding their health. It is estimated that 90 million adults in the United States have inadequate health literacy. Health literacy has been shown to impact outcomes in a number of medical conditions. My research efforts have focused on evaluating the impact of health literacy on patient-physician communication and outcomes in otolaryngology patients.

Publications

PUBLICATIONS

- Oral cavity cancer in young, non-smoking, and non-drinking patients: a contemporary review. *Critical reviews in oncology/hematology* Tran, Q., Maddineni, S., Arnaud, E. H., Divi, V., Megwalu, U., Topf, M. C., Sunwoo, J. B. 2023: 104112
- Nonopioid Versus Opioid Analgesics After Thyroid and Parathyroid Surgery: A Systematic Review. Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery
 Moon, P. K., Wei, E. X., Hamid, M. S., Borghi, J. A., Megwalu, U. C. 2023
- Association between insurance status and hearing healthcare use in the United States. *American journal of otolaryngology* Bernstein, I. A., Megwalu, U. C. 2023; 44 (6): 103993
- Association of Human Papillomavirus Status With Suicide Risk Among Patients With Head and Neck Cancer. JAMA otolaryngology-- head & neck surgery Chakoma, T., Moon, P. K., Osazuwa-Peters, O. L., Megwalu, U. C., Osazuwa-Peters, N. 2023
- Disparities in Outcomes for Pacific Islander Patients vs Asian and non-Hispanic White Patients With Head and Neck Cancer-Reply. *JAMA* otolaryngology-- head & neck surgery Moon, P. K., Megwalu, U. C.

2022

• In Reference to: How Many Nodes to Take? Lymph Node Ratio Below 1/3 Reduces Papillary Thyroid Cancer Nodal Recurrence. *The Laryngoscope* Megwalu, U. C.

2022

- Associations of Hearing Loss Severity and Hearing Aid Use With Hospitalization Among Older US Adults. JAMA otolaryngology-- head & neck surgery Thai, A., Khan, S. I., Choi, J., Ma, Y., Megwalu, U. C. 2022.
- Thyroid Cancer Incidence, Clinical Presentation, and Survival Among Native Hawaiian and Other Pacific Islanders. Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery
 Moon, P. K., Chakoma, T., Ma, Y., Megwalu, U. C.
 2022: 1945998221118538
- Head and Neck Cancer Among Native Hawaiian and Other Pacific Islander Patients-Disparities in Cancer Stage at Presentation and Survival Outcomes Compared With Other Races: A Population-Based Cohort Study. *JAMA otolaryngology-- head & neck surgery* Moon, P. K., Ma, Y., Megwalu, U. C.

2022

- Moving Beyond Detection: Charting a Path to Eliminate Health Care Disparities in Otolaryngology. Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery
 Bowe, S. N., Megwalu, U. C., Bergmark, R. W., Balakrishnan, K.
 2022: 1945998221094460
- Systemic Steroids for Otolaryngology-Head and Neck Surgery Disorders: An Evidence-Based Primer for Clinicians. Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery
 McCoul, E. D., Megwalu, U. C., Joe, S., Gray, R., O'Brien, D. C., Ference, E. H., Lee, V. S., Patel, P. S., Figueroa-Morales, M. A., Shin, J. J., Brenner, M. J. 2022: 1945998221087664
- Risk of Second Primary Malignancies After External Beam Radiotherapy for Thyroid Cancer. Anticancer research Jin, M. C., Qian, Z. J., Megwalu, U. C. 2022; 42 (3): 1359-1365
- Benign Ectopic Thyroid in the Lateral (Level II) Neck Compartment CUREUS JOURNAL OF MEDICAL SCIENCE Liu, G. S., Berry, G. J., Desai, K., Megwalu, U. C. 2022; 14 (2)
- Thyroid Cancer Incidence and Mortality Trends in the United States: 2000 2018. *Thyroid : official journal of the American Thyroid Association* Megwalu, U., Moon, P. K. 2022.
- Benign Ectopic Thyroid in the Lateral (Level II) Neck Compartment. *Cureus* Liu, G. S., Berry, G. J., Desai, K., Megwalu, U. C. 2022; 14 (2): e22140
- Evidence-Based Medicine in Otolaryngology, Part XIII: Health Disparities Research and Advancing Health Equity. Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery Megwalu, U. C., Raol, N. P., Bergmark, R., Osazuwa-Peters, N., Brenner, M. J. 2022: 1945998221087138
- Differential Outcomes Among Survivors of Head and Neck Cancer Belonging to Racial and Ethnic Minority Groups. JAMA otolaryngology-- head & neck surgery

Taylor, D. B., Osazuwa-Peters, O. L., Okafor, S. I., Boakye, E. A., Kuziez, D., Perera, C., Simpson, M. C., Barnes, J. M., Bulbul, M. G., Cannon, T. Y., Watts, T. L., Megwalu, U. C., Varvares, et al 1800

• Thyroid Cancer Incidence Trends Among Filipinos in the United States. *The Laryngoscope* Megwalu, U. C., Osazuwa-Peters, N., Moon, P., Palaniappan, L. P. 1800

- Associations of Hearing Loss and Hearing Aid Use with Hospitalization in the Elderly Thai, A., Khan, S. I., Choi, J., Megwalu, U. C. ELSEVIER SCIENCE INC.2021: S170-S171
- Racial/Ethnic Disparities in Use of High-Quality Hospitals Among Oral Cancer Patients in California. The Laryngoscope Megwalu, U. C., Ma, Y. 2021
- Clinical presentation and survival outcomes of well-differentiated thyroid cancer in Filipinos. Cancer medicine

Megwalu, U. C., Ma, Y., Osazuwa-Peters, N., Orloff, L. A. 2021

• The role of insurance status as a mediator of racial disparities in oropharyngeal cancer outcomes *HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK* Shukla, N., Ma, Y., Megwalu, U. C.

2021

- Racial/ethnic Disparities in use of High-Quality Hospitals among Thyroid Cancer Patients. Cancer investigation Megwalu, U. C., Ma, Y. 2021: 1-16
- Association of self-reported hearing loss severity and healthcare utilization outcomes among Medicare beneficiaries. American journal of otolaryngology Thai, A., Megwalu, U. C. 2021; 42 (4): 102943
- Parotid gland incidentalomas: A single-institution experience. *American journal of otolaryngology* Moon, P. K., Tusty, M., Megwalu, U. C. 2021; 43 (2): 103296
- Outpatient healthcare use and outcomes after pediatric tracheostomy. International journal of pediatric otorhinolaryngology Qian, Z. J., Megwalu, U. C., Cheng, A. G., Balakrishnan, K. 2021: 151: 110963
- Association Between Age and Nodal Metastasis in Papillary Thyroid Carcinoma. Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery

Shukla, N., Osazuwa-Peters, N., Megwalu, U. C. 2020: 194599820966995

• 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

- Comparison of Parotidectomy With Observation for Treatment of Pleomorphic Adenoma in Adults. JAMA otolaryngology-- head & neck surgery Kligerman, M. P., Jin, M., Ayoub, N., Megwalu, U. C.
 2020
- Significance of Nodal Metastasis in Parotid Gland Acinar Cell Carcinoma. *The Laryngoscope* Moon, P., Tusty, M., Divi, V., Megwalu, U. C. 2020
- External Beam Radiotherapy for Medullary Thyroid Cancer Following Total or Near-Total Thyroidectomy. Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery Jin, M., Megwalu, U. C., Noel, J. E. 2020: 194599820947696
- State Medicaid expansion status, insurance coverage and stage at diagnosis in head and neck cancer patients. Oral oncology Osazuwa-Peters, N., Barnes, J. M., Megwalu, U., Adjei Boakye, E., Johnston, K. J., Gaubatz, M. E., Johnson, K. J., Panth, N., Sethi, R. K., Varvares, M. A. 2020; 110: 104870

- Effect of state Medicaid expansion status on insurance coverage and stage at diagnosis in head and neck cancer patients Osazuwa-Peters, N., Barnes, J. M., Boakye, E., Gaubatz, M. E., Johnston, K. J., Panth, N., Sethi, R. K., Megwalu, U., Varvares, M. A. AMER ASSOC CANCER RESEARCH.2020
- The Impact of Hospital Quality on Thyroid Cancer Survival. Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery

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- Radiographic surveillance of abdominal free fat graft in complex parotid pleomorphic adenomas: A case series. *Heliyon* Lee, Y. J., Fischbein, N. J., Megwalu, U. n., Baik, F. M., Divi, V. n., Kaplan, M. J., Sirjani, D. B. 2020; 6 (5): e03894
- Cost-Effectiveness of Depression Screening for Otolaryngology-Head and Neck Surgery Residents. *The Laryngoscope* Kligerman, M. P., Devine, E. E., Bentzley, J. P., Megwalu, U. C. 2020
- COVID-19 pandemic and health care disparities in head and neck cancer: Scanning the horizon. *Head & neck* Graboyes, E. n., Cramer, J. n., Balakrishnan, K. n., Cognetti, D. M., López-Cevallos, D. n., de Almeida, J. R., Megwalu, U. C., Moore, C. E., Nathan, C. A., Spector, M. E., Lewis, C. M., Brenner, M. J.
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• Health Literacy and Hearing Healthcare Use. *The Laryngoscope* Tran, E. D., Vaisbuch, Y. n., Qian, Z. J., Fitzgerald, M. B., Megwalu, U. C. 2020

• Risks of Neoplasia and Malignancy in Surgically Resected Cystic Parotid Lesions. Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery

Boursiquot, B. C., Fischbein, N. J., Sirjani, D., Megwalu, U. C. 2019: 194599819889699

- Visual Vignette ENDOCRINE PRACTICE Vukkadala, N., Desai, K., Megwalu, U. 2019; 25 (12): 1366
- Harms of Pediatric Thyroid Cancer Overdiagnosis-Reply. JAMA otolaryngology-- head & neck surgery Qian, Z. J., Megwalu, U. C. 2019
- Adjuvant external beam radiotherapy for locally invasive papillary thyroid cancer HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK

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- Impact of lymph node sampling on survival in cN0 major salivary gland adenoid cystic carcinoma *HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK* Qian, Z., Chen, M. M., Divi, V., Megwalu, U. C. 2019; 41 (6): 1903–7
- Patient preferences regarding the communication of biopsy results in the general otolaryngology clinic AMERICAN JOURNAL OF OTOLARYNGOLOGY Saraswathula, A., Lee, J. Y., Megwalu, U. C. 2019; 40 (1): 83–88
- Pediatric Thyroid Cancer Incidence and Mortality Trends in the United States, 1973-2013. JAMA otolaryngology-- head & neck surgery Qian, Z. J., Jin, M. C., Meister, K. D., Megwalu, U. C. 2019

• Intraoperative Corticosteroids for Voice Outcomes among Patients Undergoing Thyroidectomy: A Systematic Review and Metaanalysis OTOLARYNGOLOGY-HEAD AND NECK SURGERY

Noel, J. E., Kligerman, M. P., Megwalu, U. C. 2018; 159 (5): 811–16

- Insurance Status and Survival of Patients with Salivary Gland Cancer. Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery
 Saraswathula, A., Megwalu, U. C.
 2018: 194599818791798
- Survival benefit of post-operative chemotherapy for intermediate-risk advanced stage head and neck cancer differs with patient age ORAL ONCOLOGY Chen, M. M., Colevas, A., Megwalu, U., Divi, V. 2018; 84: 71–75
- Jaw Opening Decreases Window to the Deep Parotid Lobe OTOLARYNGOLOGY-HEAD AND NECK SURGERY Lee, Y., Megwalu, U., Melara, E., Divi, V., Fernandes, V. T., Sirjani, D. 2018; 159 (3): 439–41
- Oropharyngeal Squamous Cell Carcinoma Incidence and Mortality Trends in the United States, 1973-2013 LARYNGOSCOPE Megwalu, U. C., Sirjani, D., Devine, E. E.
 2018; 128 (7): 1582–88
- Dysphagia and Pharyngeal Obstruction in a Nonsmoker JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY Nuyen, B. A., Berry, G., Megwalu, U. 2018; 144 (2): 171–72
- Surrogate for oropharyngeal cancer HPV status in cancer database studies HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK

Megwalu, U. C., Chen, M. M., Ma, Y., Divi, V. 2017; 39 (12): 2494–2500

- Oropharyngeal squamous cell carcinoma incidence and mortality trends in the United States, 1973-2013. *The Laryngoscope* Megwalu, U. C., Sirjani, D., Devine, E. E. 2017
- Retrograde Parotidectomy and facial nerve outcomes: A case series of 44 patients AMERICAN JOURNAL OF OTOLARYNGOLOGY Kligerman, M. P., Song, Y., Schoppy, D., Divi, V., Megwalu, U. C., Haughey, B. H., Sirjani, D. 2017; 38 (5): 533–36
- Health Literacy in Patients With Head and Neck Cancer: An Understudied Issue. JAMA otolaryngology-- head & neck surgery Megwalu, U. C. 2017
- Survival Outcomes in Oropharyngeal Small-Cell Carcinoma Compared With Squamous Cell Carcinoma: A Population-based Study. *JAMA* otolaryngology-- head & neck surgery Megwalu, U. C., Nuyen, B. A.

2017

- Health Literacy. Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery Megwalu, U. C.
 2017; 156 (3): 395-396
- Risk of Malignancy in Thyroid Nodules 4 cm or Larger. Endocrinology and metabolism (Seoul, Korea) Megwalu, U. C. 2017: -?
- Racial disparities in oropharyngeal cancer survival ORAL ONCOLOGY Megwalu, U. C., Ma, Y. 2017; 65: 33-37

• Risk of Nodal Metastasis in Major Salivary Gland Adenoid Cystic Carcinoma. Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery

Megwalu, U. C., Sirjani, D. 2017: 194599817690138-?

• Impact of County-Level Socioeconomic Status on Oropharyngeal Cancer Survival in the United States. Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery Megwalu, U. C.

2017: 194599817691462-?

• Observation versus thyroidectomy for papillary thyroid microcarcinoma in the elderly. *journal of laryngology and otology*

Megwalu, U. C. 2017; 131 (2): 173-176

- Racial disparities in papillary thyroid microcarcinoma survival. *journal of laryngology and otology* Megwalu, U. C., Saini, A. T. 2017; 131 (1): 83-87
- Racial Disparities in Oropharyngeal Cancer Stage at Diagnosis. Anticancer research Megwalu, U. C., Ma, Y. 2017; 37 (2): 835-839
- The rising incidence of major salivary gland cancer in the United States. *Ear, nose, & throat journal* Del Signore, A. G., Megwalu, U. C. 2017; 96 (3): E13–E16
- Health Literacy Assessment in an Otolaryngology Clinic Population OTOLARYNGOLOGY-HEAD AND NECK SURGERY Megwalu, U. C., Lee, J. Y. 2016; 155 (6): 969-973
- Identifying Intraoperative Nerve Monitoring in Thyroid Surgery Using Administrative Databases. JAMA otolaryngology-- head & neck surgery Megwalu, U. C.

2016

• Migration of an ingested fish bone into the paraglottic space. *journal of laryngology and otology* Megwalu, U. C. 2016; 130 (10): 973-974

• Exploring the Use of Oropharyngeal Cancer Histology to Account for HPV Status in Population-based Studies. Anticancer research Megwalu, U. C.

2016; 36 (10): 5515-5518

- Adenoid cystic carcinoma of the external ear: a population based study AMERICAN JOURNAL OF OTOLARYNGOLOGY Green, R. W., Megwalu, U. C. 2016; 37 (4): 346-350
- Survival Outcomes in Early Stage Laryngeal Cancer ANTICANCER RESEARCH Megwalu, U. C., Panossian, H. 2016; 36 (6): 2903-2907
- Total Thyroidectomy Versus Lobectomy for the Treatment of Follicular Thyroid Microcarcinoma ANTICANCER RESEARCH Megwalu, U. C., Green, R. W. 2016; 36 (6): 2899-2902
- Sociodemographic disparities in choice of therapy and survival in advanced laryngeal cancer. *American journal of otolaryngology* Saini, A. T., Genden, E. M., Megwalu, U. C. 2016; 37 (2): 65-69
- Survival Outcomes in Advanced Laryngeal Cancer JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY Megwalu, U. C., Sikora, A. G.

2014; 140 (9): 855-860

• The Impact of Demographic and Socioeconomic Factors on Major Salivary Gland Cancer Survival. Otolaryngology-head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery

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Megwalu, U. C., Piccirillo, J. F. 2008; 134 (8): 805-809

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- Evaluation of a laryngopharyngeal reflux management protocol. *American journal of otolaryngology* Gupta, N. n., Green, R. W., Megwalu, U. C. ; 37 (3): 245–50