

**Andrew G. Shuman, MD FACS**  
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## **Personal Statement**

I am a fellowship-trained academic head and neck surgical oncologist and medical ethicist. I am recognized as a thought leader in ethical issues arising within the field of otolaryngology. I lead our institutional Clinical Ethics Service, chair the adult ethics committee service, and have considerable experience with medical ethics education at the undergraduate, pre- and post-graduate levels. My main research interests examine the intersection between medical ethics and head and neck cancer care delivery, focusing on treatment-related decision-making in this patient population. My empiric work to date has focused on end-of-life care, laryngeal cancer treatment choices, individualized risk prediction, and counseling about HPV. Emerging avenues of research explores empirical analysis and study of the application of the genomic frontier in head and neck cancer, and the ethics of drug shortages.

## **Academic and Professional Appointments**

### ***University of Michigan***

2014 – Present	Assistant Professor Division of Head & Neck Oncology Department of Otolaryngology – Head and Neck Surgery University of Michigan Health System	Ann Arbor, MI
2016 – Present	Co-Chief Clinical Ethics Service Center for Bioethics and Social Sciences in Medicine (CBSSM) University of Michigan Medical School	Ann Arbor, MI
2016 – Present	Chair Adult Ethics Committee and Consultation Service University of Michigan Health System	Ann Arbor, MI
2014 – Present	Member University of Michigan Comprehensive Cancer Center	Ann Arbor, MI
2017 – Present	Member Institute for Healthcare Policy and Innovation University of Michigan	Ann Arbor, MI
2014 – Present	Adjunct Assistant Professor College of Literature, Science and the Arts University of Michigan	Ann Arbor, MI

### **VA Ann Arbor Healthcare System**

2014 – Present                      Chief    Ann Arbor, MI  
ENT Section, Surgery Service  
VA Ann Arbor Healthcare System

### **Education and Training**

7/2011 – 12/2013                      Memorial Sloan-Kettering Cancer Center                      New York, NY  
Head and Neck Surgical Oncology Fellow  
Department of Surgery

7/2011 – 12/2013                      Weill Cornell Medical College                      New York, NY  
Medical Ethics Fellow  
Department of Public Health

7/2007 – 6/2011                      University of Michigan Hospitals                      Ann Arbor, MI  
Resident Surgeon  
Department of Otolaryngology-Head and Neck Surgery  
(Administrative Chief Resident 2010-2011)

6/2006 – 7/2007                      University of Michigan Hospitals                      Ann Arbor, MI  
Surgical Intern  
Department of Surgery

8/2002 – 6/2006                      University of Michigan Medical School                      Ann Arbor, MI  
M.D. with Distinction

9/1998 – 5/2002                      University of Michigan                      Ann Arbor, MI  
B.S. with High Distinction  
Concentration in Biology; Minor in Judaic Studies

### **Certification and Licensure**

Diplomate of the American Board of Otolaryngology CN# 20982	Renewal 6/22/22
Michigan State MD Permanent License 4301087981	Renewal 1/31/22
Michigan State Controlled Substance License 5315038628	Renewal 1/31/19
DEA Controlled Substance FS1149889	Renewal 2/28/21
BLS/ACLS certified	Renewal 11/30/19

### **Research Interests**

1. Ethics of head and neck precision oncology
2. Decision making and decision support in head and neck cancer treatment
3. Ethics involving drug shortages and medication delivery

### **Grants**

NIH Clinical and Translational Science Awards (CTSA) consortium; “Transforming Expanded Access to Maximize Support and Study (TEAMSS)” (Co-I; PI Mashour), 7/1/18-6/30/23 [\$4,800,000]  
BCBSM Foundation Investigator Initiated Award; “Statewide approaches to drug shortages” (PI) 9/1/2018-2/27/2020 [\$50,000]

AHNS Young Investigator Award; “Patient and Provider Perspectives on Personalized Head & Neck Cancer Care” (PI), 7/1/17-6/30/19 [\$40,000]  
 VA Million Veteran Project 1 I01 BX004183-01A1; “Immunogenetic determinants of HPV-related head and neck cancer in Veterans” (Co-I; PI Sikora), 4/1/18-3/31/20 [\$298,169].  
 Advanced Research Training in Otolaryngology Program Training Grant (T32 DC005356) (Co-director), 7/1/16-6/30/21 [\$1,154,710]  
 University of Michigan Depression Center Strategic Translational Research (STAR) Award, “Prophylactic Antidepressants for Major Depression in Head and Neck Cancer” 4/1/18-7/1/19 (Faculty PI/Mentor) [12,500]  
 Accreditation Council for Graduate Medical Education; “Meaningful Encounters at the Bedside: A Novel Resident Wellness Program” (Faculty PI/Preceptor), 1/1/18-12/31/19 [\$4,000]  
 CME Innovations Grant; “Implementation of a Multi-Disciplinary Clinical Ethics Continuing Medical Education Curriculum” (Co-PI), 6/1/16-6/30/17 [\$10,324]  
 MCubed Program; “Developing web-based prognostic calculators in head and neck cancer” (Co-PI) 12/1/15-11/30/16 [\$15,000]  
 AAO-HNS Resident Research Grant, “Decision-making in laryngeal cancer” (PI), 7/1/12-6/30/13 [\$10,000]

### **Selected Honors and Awards**

University of Michigan Medical School Academy of Medical Educators 2019  
 Blue Cross Blue Shield of Michigan Foundation Investigator Initiated Award 2018  
 American Head & Neck Society 2017 Young Investigator Award  
 AAO-HNS Society Honor Award, 2017  
 Frank N. Ritter, MD Award for Resident Teaching, University of Michigan, 2016  
 C.T. Lee Lectureship on Humanistic Compassionate Care (Yale Dept. of Surgery), 2016  
*Otolaryngology-Head and Neck Surgery* Editorial Board Star Reviewer, 2016 and 2015  
 AAO-HNS Model Committee Award (Ethics Committee), 2016, 2015, 2014 and 2012  
 AAO-HNS Outstanding Poster Award 2014  
 AAO-HNS Resident Leadership Grant 2012  
 Triological Society Combined Sections Meeting 1<sup>st</sup> Place Poster Award 2012  
 Triological Society Resident Research Travel Grant 2011  
 Finalist, Institute of Industrial Engineers’ National Lean Best Practice Award 2011  
 Kemink Award for Excellence in Clinical Research; 2010 and 2011  
 Rontal Travel Grant for Best Research Presentation, University of Michigan; 2010 and 2011  
 American Academy of Otolaryngology Resident Research Award, 2<sup>nd</sup> Place 2010  
 Michigan Otolaryngology Society 2<sup>nd</sup> Place Resident Recognition Award 2010  
 Triological Society Paul Holinger Resident Research Award 2009  
 Dean’s Commendation for Excellence in Clinical Skills and the Art of Medicine 2006  
 Albert C. Furstenberg Award 2006  
 Member, Alpha Omega Alpha, Phi Beta Kappa and National Society of Collegiate Scholars  
 Academy of Achievement scholar  
 University of Michigan Shipman Scholar

### **Peer Review Services**

*Otolaryngology – Head and Neck Surgery* (Associate Editor for Head and Neck/Skull Base Surgery)  
*JAMA Otolaryngology – Head & Neck Surgery*  
*AJOB*  
*Head & Neck*

*Annals of Surgical Oncology*  
*The Oncologist*  
*Annals of Otolaryngology, Rhinology & Laryngology*

## **Teaching Experience**

### ***Graduate Medical Education***

2016 – Present	Task Force Member and Mentor, <i>Otolaryngology – Head and Neck Surgery</i> Resident Manuscript Review Program	
2015 – Present	VA Otolaryngology Resident Rotation Educational Lead	Ann Arbor, MI
2014 – Present	Faculty; Michael Rontal Family Anatomy Course	Ann Arbor, MI
2015 – Present	Co-Director T32 Advanced Research Training in Otolaryngology Program Training Grant (T32 DC005356); Dept. of Otolaryngology – Head & Neck Surgery UMMS Program lead of Responsible Conduct in Research curriculum	Ann Arbor, MI
2014 – Present	Chair, Resident Research Committee, Otolaryngology	Ann Arbor, MI
2014 – Present 2011 – 2013	Otolaryngology Resident Oto Bootcamp Weill-Cornell Internal Medicine Residency Co-designed a novel curriculum for case-based learning for an entire residency program; program details have been nationally presented and published.	Ann Arbor, MI New York, NY
2010 - 2011	Member, Graduate Medical Education Committee	Ann Arbor, MI
2009 - 2011	Resident Instructor, surgical intern skills workshop	Ann Arbor, MI

### ***Pre-Graduate Medical Education***

2019	University of Michigan Medical School Academy of Medical Educators	
2016 – Present	Faculty, “Doctoring: Caring for Patients, Families and Communities” University of Michigan Medical School	Ann Arbor, MI
2016 – Present	Co-Director; Otolaryngology sequence, M1 curriculum	Ann Arbor, MI
2014 – Present	Faculty, UMMS Ethics Path of Excellence	Ann Arbor, MI
2014 – Present	Moderator, Ethics Small Group Sessions (MS3-4)	Ann Arbor, MI

2014 – Present	Ethics Education Advisory Council Center for Bioethics and Social Sciences in Medicine University of Michigan Medical School	Ann Arbor, MI
2012 – 2013	Ethics curriculum, Weill Cornell Medical College Lecturer and small-group leader in MPS 2 and 3, with focus on surgical ethics, capacity and informed consent, and end-of-life decision-making.	New York, NY
<b><i>Undergraduate</i></b>		
2014 – 2018	UC 151.006: Medical Ethics: At the Bedside (University of Michigan) Course director; 3-credit first-year seminar	Ann Arbor, MI
2014 – Present	Guest Lecturer for undergraduate courses UC151.007 Epidemics: Present and Future: The Ethics of Ebola in America UC105: Perspectives of Health and Health Care: Intro to Medical Ethics ANAT403: Human Anatomy: Thyroid and Parathyroid: Clinical Correlations PSYCH211: Health, Illness, and Society; Introduction to Medical Ethics SOC 476 - Sociology of Bioethics: Clinical Ethics in Practice NURS577 - Acute Care Advanced Practice Nursing: Multidisciplinary Ethics	Ann Arbor, MI
2016 – Present	Faculty advisor; Undergraduate Bioethics Club	Ann Arbor, MI
2009 - 2011	UC 105-6: <i>Perspectives on Health and Health Care</i> Guest lecturer in course designed for pre-health undergraduate students.	Ann Arbor, MI
2009 - 2011	Medical student clinical ethics course Small-group leader and facilitator.	Ann Arbor, MI
2008 – 2011	Medical student anatomy course Resident instructor of first-year medical students in gross and applied clinical anatomy of the head and neck.	Ann Arbor, MI
<b><i>CME/Other</i></b>		
2017 - Present	Office of Continuing Education, University of Michigan Medical School CME course on medical ethics	
2017 – Present	American Head & Neck Society Designed ethics curriculum for AHNS head & neck surgical oncology fellowship	

2016 – Present	Preventative ethics multidisciplinary critical care rounds; supported by CME Innovations Grant, “Implementation of a Multi-Disciplinary Clinical Ethics Continuing Medical Education Curriculum.”
2016 – Present	American Board of Otolaryngology (ABOTO) Oral Board Examiner (2020) Task Force on New Materials
2013 – Present	AAO-HNS Ethics Curriculum Development and teaching of American Board of Otolaryngology-approved maintenance of certification curriculum in medical ethics for national surgical subspecialty licensing board, and a related course taught at national meeting.
2012 – 2013	Memorial Sloan-Kettering Cancer Center <span style="float: right;">New York, NY</span> Leader of a case-based learning initiative for multiple groups of clinicians at Memorial Sloan-Kettering Cancer Center. Specific groups included transitional year (PGY-1) interns; the critical care / ICU department; the palliative care service; the head and neck disease management team; and surgery.
2012 – 2013	Head & Neck Ethics Grand Rounds, MSKCC <span style="float: right;">New York, NY</span> Implemented quarterly case-based learning in medical ethics within a multi-disciplinary Disease Management Team.
2010 - 2011	Ethics Grand Rounds, Dept. of Otolaryngology <span style="float: right;">Ann Arbor, MI</span> Founded a series of departmental lectures and discussions focusing on ethical issues within one surgical subspecialty; its implementation has been nationally presented, published, and awarded.

## **Memberships and Committees**

University of Michigan Medical School and UMHS

Chair, Adult Ethics Committee (2014-Present)

Co-Chair, Resident Research Committee (2014-Present)

Department of Otolaryngology – Head and Neck Surgery

Medical Student Education Committee (2017-Present)

Department of Otolaryngology - Head & Neck Surgery

Division Leadership Committee (2018-Present)

Department of Otolaryngology – Head and Neck Surgery

Program Education Committee (2014-Present)

Department of Otolaryngology – Head and Neck Surgery

Ethics Path of Excellence (2014-Present)

Clinical Competency Committee (2015)

Department of Otolaryngology – Head and Neck Surgery

VA Ann Arbor Healthcare System

Surgery Service Leadership Committee (2014-Present)

NCI Head & Neck Cancer Steering Committee

Previously Untreated Locally Advanced Task Force (2019-Present)

American Academy of Otolaryngology – Head and Neck Surgery

Associate Editor for Head and Neck/Skull Base Surgery, *Otolaryngology-Head and Neck Surgery* (2016-Present)

Editorial Board, *Otolaryngology-Head and Neck Surgery* (2015-Present)

Ethics Committee (2011-Present)

[Recipient of 2012, 2014-16 AAO-HNS Model Committee Award]

Veterans Affairs Committee (2016-Present)

Centralized Otolaryngology Research Efforts (CORE) Grant Reviewer, Head and Neck Committee (2013-2015)

American Board of Otolaryngology (ABOTO)

Task Force on New Materials (2016 – Present)

American Society of Bioethics and Humanities

Surgical ethics affinity group co-lead (2013 – Present)

Clinical ethics consultation affinity group (2015 – Present)

American Head and Neck Society

Ethics and Professionalism Service (2014 – Present; Vice Chair 2018)

Curriculum Development & Maintenance Service (2019 – Present)

Survivorship Committee (2014 – 2018)

Scientific Review Committee, 9<sup>th</sup> International Conference on Head & Neck Cancer (2016)

American College of Surgeons [Fellow] (2017 – Present)

Michigan State Medical Society

Ethics Committee (2014 – Present)

American Cochlear Implant Alliance

Board of Directors (2015 – Present)

## **Volunteer/Service**

2008-2011; 2014-Present	UMHS@Hope Surgical Specialty Clinic Designer and faculty supervisor of a program providing multispecialty care at a free community clinic (2014 UMHS Program of the Year).	Ypsilanti, MI
2011-2013	Member and Consultant, Clinical Ethics Committee Memorial Sloan-Kettering Cancer Center	New York, NY
2011-2013	Member and Consultant, Clinical Ethics Committee New York Presbyterian – Weill-Cornell Medical Center	New York, NY
2011-2013	Physician volunteer, NYC Medical Reserve Corps Group of volunteer health professionals prepared to respond to health emergencies; served at evacuation shelter during Hurricane Sandy aftermath.	New York, NY
2003-2011	Member, Adult Ethics Committee University of Michigan Health System	Ann Arbor, MI

### **Invited Lectures and Professorships**

**Shuman AG.** Weintraub Endowed Lectureship in Medical Ethics. When clinical patients become research subjects. Beaumont Health System, Royal Oak, MI September 2019.

**Shuman AG.** Contemplating Inoperability, Albert Einstein College of Medicine, Bronx, New York, September 2019.

**Shuman AG.** Canfield-Cushing Endowed Lecture. Drug shortages: how to improve making hard choices. Beaumont Health System, Grosse Pointe, Michigan, September 2019.

**Shuman AG,** Firn J, Spector-Bagdady K. A comprehensive ethics educational platform at an academic medical center, Cambridge Consortium for Bioethics Education. Paris FR, July 2019.

**Shuman AG.** Clinician and institutional perspectives on expanded access and right to try, New York University Division of Medical Ethics, Department of Population Health. New York, NY. March 2019.

**Shuman AG.** Ethical issues in facial reconstruction. SUNY Downstate Conley Symposium. Brooklyn NY, April 2019.

**Shuman AG.** Beneficence: Just because we can, does it mean we should?, Clinical Ethics Bootcamp: Applying Bioethical Principles Through Case Analysis. Traverse City, MI, May 2019.

**Shuman AG.** Moral dimensions of surgical resectability. University of Toronto Department of Otolaryngology. January 2019.

**Shuman AG.** The social contract of expanded access: roles and ethical responsibilities of investigators. FDA Expanded Access Summit. National Press Club, Washington DC. January 2019.

**Shuman AG.** Application of a tiered proactive clinical ethics framework to end of life care. Memorial Sloan Kettering Cancer Center. New York, NY, January 2019.



**Shuman AG.** International Head and Neck Oncologic Surgery Resident Dissection Course. Ohio State University and University Hospitals Cleveland. September 2018.

**Shuman AG.** Building consensus with an online ethics consultation platform. Vrije Universiteit Medical Center Amsterdam. Netherlands, June 2018.

**Shuman AG.** The ethics of surgical resectability. Memorial Sloan Kettering Cancer Center. New York, NY, May 2018.

**Shuman AG.** Conceptualizing a surgical ethic of care. Departments of Surgery, Otolaryngology, and the John Conley Division of Medical Ethics, SUNY Downstate Medical Center. Brooklyn NY, March 2018.

**Shuman AG, Spector-Bagdady K.** Biospecimens and research consent: unique issues for cell line research. Department of Bioethics, NIH Clinical Center. Bethesda MD: October 2017.

**Shuman AG.** A surgical ethic of care. Weill Cornell Medical College Division of Medical Ethics. NY, NY: Oct 2016.

**Shuman AG & McCammon SD [moderators], Stack BC, Stadler M.** John Conley Ethics and Professionalism Symposium: Escalating and De-escalating Care in the Technological Era. AHNS 9<sup>th</sup> International Conference on Head and Neck Cancer. Seattle, WA, July 2016.

**Shuman AG.** A case-based approach to ethics in otolaryngology. C.T. Lee Endowed Lectureship on Humanistic Compassionate Care. Yale University Department of Surgery. New Haven CT, April 2016.

**Shuman AG.** Patient-centered decision making in head and neck cancer. Washington University Department of Otolaryngology. St Louis, Jan 2016.

**Shuman AG.** Ethical challenges of head and neck cancer care in the genomic era. John Conley Division of Medical Ethics, SUNY Downstate Medical Center. Brooklyn NY, Dec 2015.

**Shuman AG.** Getting personal: Treating head and neck cancer in the era of precision medicine. Baylor University College of Medicine. Houston TX, Oct 2015.

**Shuman AG** (keynote speaker). Making the most of your medical school experience. University of Michigan Medical School Dean's Scholars Retreat. Ann Arbor, MI: August 2015.

**Shuman AG** (panel chair). Ethical issues arising in the care of patients with head and neck cancer. International Federation of Head and Neck Oncologic Societies (IFHNOS) / AHNS 5<sup>th</sup> World Congress. New York, NY: July 2014.

**Shuman AG.** Assessing the role of palliative surgery in head and neck cancer. Henry Ford Health System Multidisciplinary Head and Neck Cancer Symposium. Detroit, MI: May 2014.

**Shuman AG.** The ethics of drug shortages. Cayuga Medical Center. Ithaca, NY; March 2013.

**Shuman AG.** End of life care in head & neck cancer. Department of Otolaryngology – Head and Neck Surgery Grand Rounds. Temple University / Fox Chase Cancer Center, Philadelphia, PA; Nov 2012.

**Shuman AG.** The Team, The Team, The Team: Redefining medical service. National Asian Pacific American Medical Student Association Conference. Ann Arbor, MI; Sept 2012.

**Shuman AG.** Opening the door to dialogue: the development of departmental ethics grand rounds. UMHS Bioethics Grand Rounds. Ann Arbor, MI; May 2011.

## **Extramural Oral Presentations**

### *International*

**Shuman AG** (invited speaker). Decision aid tools and limits of honesty in head and neck cancer care. 7th World Congress of the International Academy of Oral Oncology. Rome, Italy; September 2019.

**Shuman AG.** Patient-centered decision-making in nonsurgical laryngeal preservation. Functional preservation and rehabilitation after treatment for advanced laryngeal cancer. NHS Queen Alexandra Hospital, Portsmouth UK: March 2019.

**Shuman AG.** Ethical considerations in the management of locally advanced unresectable H&N cancer. International Federation of Head and Neck Oncologic Societies (IFHNOS) / AHNS 6<sup>th</sup> World Congress. Buenos Aires: August 2018.

Weber R, **Shuman AG**, Futran ND, O'Sullivan B, Cayol F, Gracia Recuero II, Covello R, Jalisi S. Tumor board: soft tissue and bone sarcomas. International Federation of Head and Neck Oncologic Societies (IFHNOS) / AHNS 6<sup>th</sup> World Congress. Buenos Aires: August 2018.

**Shuman AG** (moderator), Isaie N, Shaye D, Brown J, Nuss R. Tracheostomy solutions in low-resource environments. 4th International Tracheostomy Symposium GTC. Dallas TX: Feb 2018.

**Shuman AG** (symposium moderator); Kupfer R, Kokesh J, Hu A [chair]. Volunteering at Home. ENT World Congress - International Federation of ORL Societies (IFOS). Paris France: June 2017.

**Shuman AG** (symposium moderator); Pathak A, Kerawala C, Krishnakumar K, Bhatt R. Maximizing scarce resources in oral cancer care. International Academy of Oral Oncology (IAOO) World Congress. Bangalore India: May 2017.

Smith LB, Shinar Y, **Shuman AG.** Utility of an on-line electronic ethics consultation platform. International Conference on Clinical Ethics & Consultation. New York NY: May 2015.

**Shuman AG.** The ethical conundrum of HPV-associated head and neck cancer. 8<sup>th</sup> International Conference on Ethics in Biology, Engineering & Medicine. Brooklyn, NY: April 2015.

**Shuman AG.** Patient perspectives on decision-making in laryngeal cancer treatment. International Federation of Head and Neck Oncologic Societies (IFHNOS) / AHNS 5<sup>th</sup> World Congress. New York, NY: July 2014.

**Shuman AG**, Cole R, McCammon S. Exercises in futility: ethical challenges in otolaryngology (mini-seminar). American Academy of Otolaryngology – Head and Neck Surgery Annual Meeting. Vancouver Canada; Sept 2013.

**Shuman AG** (invited speaker and panelist). Ethical dilemmas in ENT. International Federation of Oto-Rhino-Laryngological Societies (IFOS) World Congress. Seoul, South Korea; June 2013.

**Shuman AG**. An ethical framework for anaplastic thyroid cancer. International Federation of Oto-Rhino-Laryngological Societies (IFOS) World Congress. Seoul, South Korea; June 2013.

**Shuman AG**. Predictors of pain among head and neck cancer patients. AHNS 8th International Conference on Head and Neck Cancer, Toronto ON; July 2012.

**Shuman AG**. Evaluación de la masa del cuello. Hospital Suiza; La Ceiba, Honduras. May 2011.

*National*

Goldstein D, **Shuman AG**, Weber R, Gourin CG, Graboyes EM. What is Quality in Head and Neck Surgery? AHNS Annual Meeting at COSM. Austin TX; May 2019.

**Shuman AG**, Hays G, Unguru Y. Organizational pharmaceutical decision making. Healthcare Supply Chain Association National Pharmacy Forum. Tampa FL; Feb 2019.

Firn J, **Shuman AG**, Vercler CJ. The narrative turn in surgical consent. American Society for Bioethics and Humanities National Meeting. Anaheim CA; Oct 2018.

**Shuman AG**, (Moderator), Schloegel L, Old M. Genetic testing for the otolaryngologist: who, why, and when to test. AAO-HNS Annual Meeting. Atlanta GA: October 2018.

Netterville JL, Saunders JE, Liyombo E, **Shuman AG** (moderator). Global scarcity of otolaryngologists: ethical perspectives. AAO-HNS Annual Meeting. Atlanta GA: October 2018.

**Shuman AG**. The surgeon, the patient, and the health care system: access, equity, and fairness. University of Washington Surgical Ethics Conference. Seattle WA: August 2018.

Johnson KC, Tannenbaum S, Golinkoff R, DesJardin, J, McCartney A, **Shuman AG**. Parental engagement in pediatric CI outcomes. American Cochlear Implant Alliance Annual Meeting. Washington DC: March 2018.

**Shuman AG**, Strand N, Spector-Bagdady K. From patient to participant to specimen to data: privacy across the health lifecycle. Data Privacy in the Digital Age. Office of the Chief Information Officer, Department of Health and Human Services. Washington DC: October 2017.

**Shuman AG**, Goold SD, Firn J. Navigating the ethics of medication usage at the institutional level. American Society for Bioethics and Humanities National Meeting. Kansas City MO; Oct 2017.

**Shuman AG**, (Moderator), Schloegel L, Cagnetti D. Genetic testing for the otolaryngologist: who, why, and when to test. AAO-HNS Annual Meeting. Chicago IL; Sept 2017.

Basura GJ, Netterville JL, Saunders JE, **Shuman AG** (moderator). Ethical issues in international missions. AAO-HNS Annual Meeting. Chicago IL; Sept 2017.

**Shuman AG**. The future of value-based payment models and the impact on pharmacy: ethical perspectives. Michigan Association of Health Plans Summer Conference. Traverse City MI: July 2017.

Smith LB, **Shuman AG**, Vercler CJ, Shinar Y. Creating a co-curricular ethics program for medical students. American Society for Bioethics and Humanities National Meeting. Washington, DC: Oct 2016.

**Shuman AG**, Cordes SR. Clinical fundamentals: ethics and professionalism (ABOTO MOC sponsored course). AAO-HNS Annual Meeting. San Diego, CA; Sept 2016.

**Shuman AG**, (Moderator), Schloegel L, Manace-Brenman L, Simental A. Genetic testing for the otolaryngologist: who, why, and when to test. AAO-HNS Annual Meeting. San Diego, CA; Sept 2016.

**Shuman AG**, (Moderator); Goodwin JC, Langerman A, Showmaker J. Sex, drugs, and cancer: talking to patients about HPV. AAO-HNS Annual Meeting. San Diego, CA; Sept 2016.

Cole RD, McCammon SD, **Shuman AG**, Cordes SR. Clinical fundamentals: ethics and professionalism (ABOTO MOC sponsored course). AAO-HNS Annual Meeting. Dallas, TX; Sept 2015.

**Shuman AG**. (Invited panelist). Outcomes best practice: how to get started. AHNS Translational Research Meeting. Boston MA: April 2015.

Cole RD, McCammon SD, **Shuman AG**, Cordes SR. Clinical fundamentals: ethics and professionalism (ABOTO MOC sponsored course). AAO-HNS Annual Meeting. Orlando FL; Sept 2014.

Xu J, **Shuman AG**. Soothing and balmy, cure without disfigurement. Otolaryngology Historical Society Annual Meeting. Orlando FL: Sept 2014.

Hadley JA, Rotenberg BW, **Shuman AG**, Zacharek MA. Ethical Dilemmas in Rhinology and Skull Base Surgery. American Rhinologic Society Meeting at COSM. Las Vegas, NV: May 2014.

**Shuman AG** (panelist). Case discussion: core concepts in head and neck surgery and oncology. New York, NY: November 2013.

**Shuman AG**. Ethics consultation in a cancer center. Interdisciplinary palliative care: conundrums in the 21<sup>st</sup> century. New York, NY; Nov 2012.

**Shuman AG**. A new care paradigm in geriatric head and neck surgical oncology. American Academy of Otolaryngology – Head and Neck Surgery Annual Meeting. Washington, DC; Sept 2012.

**Shuman AG**. From cancer to cookbooks: the story of Clementine Paddleford. Otolaryngology Historical Society Annual Meeting. Washington, DC; Sept 2012.

**Shuman AG**. Stratifying the risk of venous thromboembolism in otolaryngology. Academy of Otolaryngology – Head and Neck Surgery Annual Meeting. San Francisco, CA; Sept 2011.

**Shuman AG**. The right not to hear: ethics of parental refusal of hearing rehabilitation. Triological Society Combined Sections Meeting. Scottsdale, AZ; January 2011.

**Shuman AG**. Demographics and efficacy of a head and neck cancer screening program. Academy of Otolaryngology – Head and Neck Surgery Annual Meeting. Boston, MA; Sept 2010. (Winner of Resident Research Award).

**Shuman AG.** End of life care in head and neck cancer. Academy of Otolaryngology – Head and Neck Surgery Annual Meeting. Boston, MA; Sept 2010.

**Shuman AG.** Predictors of poor sleep quality among head and neck cancer patients. Triological Society Combined Sections Meeting. Orlando, FL; February 2010 (Winner of Resident Research Award).

***Regional (selected)***

Hogikyan ND, **Shuman AG** (Invited panel). Bioethics in otolaryngology. Michigan Otolaryngology Society Annual Meeting; July 2019.

**Shuman AG.** Clinical ethics consultation: a primer. Michigan State Medical Society; October 2018.

**Shuman AG.** The growing importance of clinical ethics consultation in hospitalized patients. Washtenaw County Medical Society, Ann Arbor MI; November 2017.

**Shuman AG, Spector-Bagdady K.** Implications of the common rule revisions for biospecimen research. Great Lakes Biorepository Research Network Annual Scientific Meeting. Royal Oak, MI; Nov 2017.

**Shuman AG.** Introduction to medical ethics. Michigan State Medical Society; Aug 2017.

**Shuman AG.** Developing an institutional approach to critical drug shortages. Pharmacological Sciences and Bio-related Chemistry Symposium. University of Michigan; March 2017.

**Shuman AG.** Conceiving a rational approach to drug shortages. MSMS Annual Ethics Meeting: Ethical Issues in the Pharmaceutical Industry. Ann Arbor MI: Nov 2016.

**Shuman AG** (moderator). Ethical, Legal and Social Implications of Learning Health Systems Symposium. Ann Arbor, MI: Nov 2016.

**Shuman AG, Vercler C.** When not to operate: the dilemma of surgical unresectability. Center for Bioethics and Social Sciences in Medicine Research Colloquium. Ann Arbor, MI: May 2014.

**Shuman AG.** The ethics of parental refusal of hearing rehabilitation. University of Michigan Bioethics Research Colloquium. Ann Arbor, MI; May 2011.

**Shuman AG, Smith LB.** Exploring the limits of autonomy. Medical Ethics Resource Network (MERN) of Michigan Annual Meeting. Lansing, MI; May 2010.

**Shuman AG.** Telling patients what we do not know: HPV and head and neck cancer. UMHS Bioethics Grand Rounds. Ann Arbor, MI; May 2010.

**Shuman AG.** An assessment of end-of-life care in head and neck cancer. UMHS Krause Lectureship, Ann Arbor, MI; June 2009.

**Shuman AG.** Just trust me: a discussion of arrogance in medicine. UMHS Bioethics Grand Rounds, Ann Arbor, MI; October 2004.

## Publications in Peer-Reviewed Literature

1. Firm JI, Rui C, De Vries R, Vercler CJ, **Shuman AG**. Identification of core ethical topics for interprofessional education in the intensive care unit: a thematic analysis. *J Interprof Care* 2019 (In press).
2. Silbert S, Yanik G, **Shuman AG**. How Value Analysis Should Decisions Be Made: The Case of CAR-T Cell Therapy. *AMA J Ethics*. 2019 (In press).
3. Beeler WH, Bellile EL, Casper KA, Jaworski E, Burger NJ, Malloy KM, Spector ME, **Shuman AG**, Rosko A, Stucken CL, Chinn SB, Dragovic AF, Chapman CH, Owen D, Jolly S, Bradford CR, Prince ME, Worden FP, Jagsi R, Mierzwa ML, Swiecicki PL. Patient-reported financial toxicity and adverse medical consequences in head and neck cancer. *Oral Oncol* 2019 (In press).
4. Haring CA, Ellsperman SE, Edwards BM, Kileny P, Kovatch D, Mannarelli GR, Meloch MA, Miller C, Pitts C, Prince ME, Bradford CR, Wolf GT, Casper KA, Malloy KM, Chinn SB, **Shuman AG**, McKean EM, VanKoevinger KV, Stucken CL, McLean SA, Marentette LJ, Rosko AJ, Spector ME. Assessment of intraoperative nerve monitoring parameters associated with facial nerve outcome in parotidectomy for benign disease. *JAMA Otolaryngol Head Neck Surg*. 2019 (In press).
5. Jones EA, **Shuman AG**, Egleston BL, Liu JC. Common pitfalls of head and neck research using cancer registries. *Otolaryngol Head Neck Surg*. 2019; 161(2):245-250.
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### **Selected Abstracts**

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**References**

To be provided upon request.