

Keck School of Medicine of the University of Southern California
CURRICULUM VITAE

Name: Eric J. Kezirian, MD, MPH

Position: Vice Chair, USC Caruso Department of Otolaryngology – Head and Neck Surgery
 Professor of Otolaryngology – Head and Neck Surgery
 Keck School of Medicine of USC

EDUCATION

1988 - 1992	Harvard College	A.B.	Economics
1992 - 1993	University of Oxford	M.Sc.	Economics
1993 - 1997	University of Pennsylvania	M.D.	Medicine
1997 - 1998	University of Washington School of Medicine	Intern	General Surgery
1998 - 2000	University of Washington School of Public Health and Community Medicine	M.P.H.	Health Services
1999 - 2003	University of Washington School of Medicine	Resident	Otolaryngology - Head and Neck Surgery
2003 - 2004	Stanford University School of Medicine	Fellow	Sleep Surgery

LICENSES, CERTIFICATION

2003	Medical Board of California
2004	Otolaryngology
2009	Fluoroscopy Supervisor and Operator
2010	Sleep Medicine

PRINCIPAL POSITIONS HELD

2003 - 2004	Stanford University School of Medicine	Clinical Instructor
2004 - 2010	University of California, San Francisco School of Medicine	Assistant Professor
2010 - 2013	University of California, San Francisco School of Medicine	Associate Professor
2013 - present	Keck School of Medicine of the University of Southern California	Professor

OTHER POSITIONS HELD CONCURRENTLY

2004 - 2013	UCSF	Director, Division of Sleep Surgery, Dept. of Otolaryngology - Head and Neck Surgery
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2007 - 2013	UCSF	Director of Resident Research, Dept. of Otolaryngology-- Head and Neck Surgery
2013 – present	KSOM	Director of Resident Research, Otolaryngology – Head and Neck Surgery
2015 – present	KSOM	Core Faculty, Sleep Medicine Fellowship
2017 – present	KSOM	Vice Chair, Otolaryngology – Head and Neck Surgery

HONORS AND AWARDS

1989	Harvard College Scholarship	
1992	Magna cum laude	
1992	Rotary Foundation Ambassadorial Scholarship	
1995	Charles A. Lauffer Foundation Scholarship	
1996	Alpha Omega Alpha	
1997	Joel Gordon Miller Award	University of Pennsylvania School of Medicine
2008	Honor Award	American Academy of Otolaryngology–Head and Neck Surgery
2013	Distinguished Service Award	American Academy of Otolaryngology–Head and Neck Surgery
2014	Fellow	American Academy of Sleep Medicine

PROFESSIONAL ACTIVITIES

PROFESSIONAL ORGANIZATIONS

Memberships

1997 – present	Alpha Omega Alpha
1997 – present	American Academy of Otolaryngology – Head and Neck Surgery
2001 – present	American Academy of Sleep Medicine
2004 – present	Sleep Research Society
2006 – present	American College of Surgeons
2007 – present	International Surgical Sleep Society
2010 – present	Society of University Otolaryngologists – Head and Neck Surgeons
2011 – present	Fellow, The Triological Society

2013 – present Society of Anesthesia and Sleep Medicine

Service to Professional Organizations

2004 – present Sleep Disorders Committee, American Academy of Otolaryngology – Head and Neck Surgery

2006 – 2010 Centralized Otolaryngology Research Efforts Study Section, American Academy of Otolaryngology – Head and Neck Surgery

2008 – 2013 BEST ENT Steering Committee, American Academy of Otolaryngology – Head and Neck Surgery

2009 – 2017 Outcomes Research and Evidence Based Medicine Subcommittee, American Academy of Otolaryngology – Head and Neck Surgery

2010 – 2014 Board of Governors Socioeconomic and Grassroots Committee, American Academy of Otolaryngology – Head and Neck Surgery

2011 – 2014 Item Writer Task Force, American Board of Otolaryngology—Head and Neck Surgery

2012 – 2015 Program Advisory Committee, American Academy of Otolaryngology – Head and Neck Surgery

2012 – 2013 Milestones Committee, Residency Review Committee, Accreditation Council for Graduate Medical Education (Otolaryngology—Head and Neck Surgery)

2013 Milestones Committee, Accreditation Council for Graduate Medical Education (Sleep Medicine)

2014 Program Advisory Committee, Combined Otolaryngology Spring Meeting and Combined Sections Meeting

2014 – present Clinical Committee, Society of Anesthesia and Sleep Medicine

2014 – 2017 President, International Surgical Sleep Society

2017 Guest Examiner, American Board of Otolaryngology—Head and Neck Surgery

SERVICE TO PROFESSIONAL PUBLICATIONS

2006 — present Otolaryngology—Head and Neck Surgery. Eighty papers in twelve years. Associate Editor, General Otolaryngology and Clinical Photographs (2010-2012). Associate Editor, Sleep Medicine and Surgery (2012-2015).

2006 — present Archives of Otolaryngology—Head and Neck Surgery. Twenty papers in thirteen years.

2006 — present The Laryngoscope. Twenty-five papers in thirteen years. Sleep Medicine and General Otolaryngology, Triological Society Best Practices (2012-14)

2009 — present Sleep. Twelve papers in ten years.

2009 — present Journal of Clinical Sleep Medicine. Eleven papers in ten years.

- 2010 — present Annals of Otolaryngology, Rhinology, and Laryngology. Two papers in nine years.
- 2011 — present Chest. Four papers in eight years.
- 2012 — present Thorax. Three papers in seven years.
- 2014 Otolaryngology & Neurotology. One paper in one year.
- 2015 Neuromodulation. One paper in one year.

INVITED PRESENTATIONS

INTERNATIONAL

- 2005 Surgical Evaluation of Obstructive Sleep Apnea, Mahidol University, Bangkok, Thailand
- 2005 Surgical Treatment of Obstructive Sleep Apnea, Mahidol University, Bangkok, Thailand
- 2007 Evaluation of the Patient with Snoring, Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Mexico City, Mexico
- 2007 Perioperative Management in OSA Surgery, Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Mexico City, Mexico
- 2007 Surgical Treatment of OSA, Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Mexico City, Mexico
- 2007 Treatment of Palatal Obstruction in OSA, Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Mexico City, Mexico
- 2007 Treatment of Hypopharyngeal Obstruction in OSA, Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Mexico City, Mexico
- 2007 A Protocol for Evaluation of Patients with Snoring or Apnea, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2007 Critical Evaluation of Surgical Treatments—The American Experience, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2007 Complications of Surgical Treatment of Sleep Apnea, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2008 Nasal Obstruction and Sleep Disordered Breathing in Adults, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2008 Surgical Treatment of Obstructive Sleep Apnea, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2008 Uvulopalatopharyngoplasty: Still Indicated in the Treatment of Sleep Apnea?, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2008 Avoiding Complications in Sleep Apnea Surgery, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2009 Evaluation of the Patient with Snoring, Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Mexico City, Mexico

- 2009 Nasal Obstruction in Snoring and Obstructive Sleep Apnea: Importance and Treatment, Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Mexico City, Mexico
- 2009 Perioperative Management in OSA, Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Mexico City, Mexico
- 2009 Hypopharyngeal Surgery for Snoring and Obstructive Sleep Apnea, Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Mexico City, Mexico
- 2009 Palatal Surgery for Snoring and Obstructive Sleep Apnea, Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Mexico City, Mexico
- 2009 Obstructive Sleep Apnea in the Elderly: Should We Treat It?, Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Mexico City, Mexico
- 2009 Geriatric OSA: Should We Treat and How?, International Sleep Surgical Society, Amsterdam, The Netherlands
- 2009 Geriatric OSA: Should We Treat It?, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2009 OSA Surgery: Approaches that Serve Us Well, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2010 Identifying the Sites of Obstruction in OSA, Egyptian International Otolaryngology Congress, Sharm El-Shaikh, Egypt
- 2010 Hypopharyngeal Surgery in OSA, Egyptian International Otolaryngology Congress, Sharm El-Shaikh, Egypt
- 2010 Avoiding Complications in OSA Surgery, Egyptian International Otolaryngology Congress, Sharm El-Shaikh, Egypt
- 2010 Snoring Surgery: What Are the Best Treatment Options?, Egyptian International Otolaryngology Congress, Sharm El-Shaikh, Egypt
- 2010 Nasal Obstruction in Snoring and OSA, Egyptian International Otolaryngology Congress, Sharm El-Shaikh, Egypt
- 2010 Hypopharyngeal Surgery, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2010 Managing Complications of Hypopharyngeal Surgery in Obstructive Sleep Apnea, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2010 Minimally Invasive Surgery in the Treatment of Snoring and Apnea, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2010 New Technologies in Snoring and Obstructive Sleep Apnea, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2010 Protocol for the Evaluation of Patients with Sleep Disordered Breathing, Brazilian Association of Otorhinolaryngology and Cervico-Facial Surgery, Natal, Brazil
- 2010 Palate Procedures: How I Do It, Brazilian Association of Otorhinolaryngology and Cervico-Facial Surgery, Natal, Brazil
- 2010 Ambulatory Procedures for Snoring and OSA, Brazilian Association of Otorhinolaryngology and Cervico-Facial Surgery, Natal, Brazil
- 2010 Novel Options for Treatment of OSA, Brazilian Association of Otorhinolaryngology and Cervico-Facial Surgery, Natal, Brazil

- 2010 Critical Analysis of the Surgical Treatment of OSA, Brazilian Association of Otorhinolaryngology and Cervico-Facial Surgery, Natal, Brazil
- 2011 Geriatric OSA: Should We Treat and How?, International Surgical Sleep Society, Taipei, Taiwan
- 2011 Drug-Induced Sleep Endoscopy, International Surgical Sleep Society, Taipei, Taiwan
- 2011 Hypopharyngeal Surgery for OSAS: an Overview, 13th International Symposium on Sleep Related Breathing Disorders, Antwerp, Belgium
- 2011 Recent Advances in the Surgical Treatment of Sleep Apnea and Snoring, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2011 The Fundamentals of Apnea Surgery, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2011 Epiglottis: Saint or Sinner in OSA?, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2011 Applications and Surgical Techniques with Different Radiofrequency Technologies in Snoring and OSA, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2012 Reporting Results of OSAS Surgery Trials, International Surgical Sleep Society, Venice, Italy
- 2012 Pharyngeal Surgery Failure: Insights from DISE, International Surgical Sleep Society, Venice, Italy
- 2012 Hypopharyngeal Techniques Overview, International Surgical Sleep Society, Venice, Italy
- 2012 Upper Airway Stimulation: Apnex Data, International Surgical Sleep Society, Venice, Italy
- 2012 Surgical Treatment of Obstructive Sleep Apnea, Department of Otolaryngology, University of Bologna, Bologna, Italy
- 2012 Risks of Untreated Snoring without Apnea, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2012 Sleep Endoscopy: What Is the Real Value for Patients?, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2012 Selecting Procedures for the Treatment of Hypopharyngeal Obstruction, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2012 Hypoglossal Nerve Stimulation in the Treatment of Obstructive Sleep Apnea, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2012 Drug-Induced Sleep Endoscopy in OSA, World Congress on Sleep Apnea, Rome, Italy
- 2012 Selecting a Hypopharyngeal Surgery in OSA, World Congress on Sleep Apnea, Rome, Italy
- 2012 Surgical Treatment Protocol for Obstructive Sleep Apnea, Kyung Hee International Rhinologic Symposium, Seoul, South Korea
- 2012 Advances in Surgical Techniques in Sleep Disordered Breathing, Kyung Hee International Rhinologic Symposium, Seoul, South Korea
- 2012 Sleep Surgery: How I Do It, Kyung Hee International Rhinologic Symposium, Seoul,

South Korea

- 2012 Hypopharyngeal Surgery for Obstructive Sleep Apnea, International Rhinologic Symposium, Pusan, South Korea
- 2012 Hypopharyngeal Surgery for Obstructive Sleep Apnea, International Rhinologic Symposium, Daejeon, South Korea
- 2012 Surgical Treatment of Obstructive Sleep Apnea, Department of Otorhinolaryngology—Head and Neck Surgery, Jikei University School of Medicine, Tokyo, Japan
- 2012 Novel Options in the Treatment of Obstructive Sleep Apnea, 5th Remote Ota Sleep Forum, Ota General Hospital, Tokyo, Japan
- 2013 The Role of CPAP Compared to Surgery in the United States, 94th Academic Meeting, Taiwan Otolaryngological Society, Tainan, Taiwan
- 2013 New Frontiers in Sleep Surgery, 94th Academic Meeting, Taiwan Otolaryngological Society, Tainan, Taiwan
- 2013 Evaluation of Obstructive Sleep Apnea: Drug-Induced Sleep Endoscopy, 94th Academic Meeting, Taiwan Otolaryngological Society, Tainan, Taiwan
- 2013 Avoiding and Treating Surgical Complications, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2013 Selecting Patients for Hypopharyngeal Surgery, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2013 Sleep Endoscopy: How I Do It, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2013 Treatment of the Geriatric Patient, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2013 New Technologies and Techniques: Coblation and Expansion Sphincter Pharyngoplasty, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2015 Sleep Endoscopy: Indications and Results, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2015 Relationship between Body Mass Index and the Base of Tongue, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2015 Stimulation of the Hypoglossal Nerve for Apnea, Sao Paulo, Brazil
- 2015 New Technologies and Surgical Approaches for Treatment of Snoring and Apnea, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2015 Indications and Contraindications of Maxillomandibular Advancement, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2016 Procedure Selection: What Should I Do?, 7th International Surgical Sleep Society Symposium, Sao Paulo, Brazil
- 2016 Novel Therapies in OSA and Snoring, 13th Annual Middle East Update in Otolaryngology , Dubai, United Arab Emirates
- 2016 Identifying the Site of Obstruction in OSA, 13th Annual Middle East Update in Otolaryngology , Dubai, United Arab Emirates
- 2016 Uvula Lovers or Uvula Haters: What to Do with the Uvula in OSA Patients?, 13th Annual Middle East Update in Otolaryngology , Dubai, United Arab Emirates

- 2016 Palatoplasty: Different Methods and Why, 13th Annual Middle East Update in Otolaryngology , Dubai, United Arab Emirates
- 2016 Role of Tongue Surgery in OSA, 13th Annual Middle East Update in Otolaryngology , Dubai, United Arab Emirates
- 2016 Selecting Hypopharyngeal Procedures in OSA, 13th Annual Middle East Update in Otolaryngology , Dubai, United Arab Emirates
- 2016 Update in Surgical Evaluation and Treatment of Obstructive Sleep Apnea, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2017 Evidence-Based Evaluation Techniques for Procedure Selection, 8th International Surgical Sleep Society Symposium, Los Angeles, CA
- 2017 What is the Place for Non-Surgical Treatments for OSAS?, ENT World Congress, Paris, France
- 2017 Can Surgery Be a First-Line OSAS Treatment?, ENT World Congress, Paris, France
- 2017 Drug-Induced Sleep explorations, ENT World Congress, Paris, France
- 2017 Should Drug-Induced sleep Endoscopy be a Standard Examination in Snoring and Obstructive Sleep Apnea?, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2017 Update in the Surgical Treatment of Obstructive Sleep Apnea, Hospital Israelita Albert Einstein, Sao Paulo, Brazil
- 2018 Evolving Methods for Hypoglossal Neurostimulation, International Surgical Sleep Society, Berlin, Germany
- 2019 Hypoglossal Nerve Stimulation in OSA: Patient Selection, Italian Society of Otorhinolaryngology – Head and Neck Surgery, Rimini, Italy
- 2019 How I Choose the Best Customized Treatments for My OSA Patients, Italian Society of Otorhinolaryngology – Head and Neck Surgery, Rimini, Italy

NATIONAL

- 2003 Evaluation of the Snoring Patient, American Academy of Facial Plastic and Reconstructive Surgery, New York, NY
- 2004 Hypoharyngeal Surgery 2005: an Evidence-Based Medicine Review, Surgery, Sleep, and Breathing, Milwaukee, WI
- 2005 Obstructive Sleep Apnea: Clinical Aspects and Implications for Surgery, Federated Ambulatory Surgery Association, San Francisco, CA
- 2005 The Untold Truth about Sleep Surgery: Hypopharyngeal Surgery, AAO-HNS, Los Angeles, CA
- 2005 Sutures, Plates, RF, and the Tongue, University of California, San Francisco, San Francisco, CA
- 2005 Identifying the Sites of Airway Obstruction in OSA, University of California, San Francisco, San Francisco, CA
- 2005 Obstructive Sleep Apnea: The Evidence on Perioperative Surgical Complications, AAO-HNS, Los Angeles, CA
- 2006 Evolving Methods & Metrics of Disease Measurement, Surgery, Sleep, and Breathing II, Chicago, IL

- 2006 Role of the Nasal Airway in the Pathophysiology of OSA, Surgery, Sleep, and Breathing II, Chicago, IL
- 2006 Methods of Palatal Surgery & Airway Evaluation — Future Directions, Surgery, Sleep, and Breathing II, Chicago, IL
- 2006 Sleep Disorders and the Sleep Study, Otolaryngology Update, Honolulu, HI
- 2006 Evaluation of the Snoring Patient, Otolaryngology Update, Honolulu, HI
- 2006 Identifying Obstruction Sites in OSA, Otolaryngology Update, Honolulu, HI
- 2006 Treating Palatal Obstruction in OSA, Otolaryngology Update, Honolulu, HI
- 2006 Treating Hypopharyngeal Obstruction in OSA, Otolaryngology Update, Honolulu, HI
- 2006 Perioperative Management in OSA, Otolaryngology Update, Honolulu, HI
- 2006 Contemporary Techniques for Sleep Apnea, Columbia University College of Physicians & Surgeons, New York, NY
- 2006 The Septum and Turbinates — What I Do Now, University of California, San Francisco, San Francisco, CA
- 2006 Surgical Management of OSA, American Academy of Sleep Medicine, Oak Brook, IL
- 2006 Management of Sleep-Disordered Breathing in the Vocal Professional, UCSF Voice Conference, San Francisco, CA
- 2006 Rhinology and nasal disease: a course for the sleep physician, American Academy of Sleep Medicine, Salt Lake City, UT
- 2007 Physical Examination, Cephalometrics, and Endoscopy for OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2007 Identifying Sites of Obstruction in Patients with OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2007 New Technologies for Sleep Disordered Breathing, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2007 Dental Imaging and the Surgical Treatment of Obstructive Sleep Apnea, American Association of Dental and Maxillofacial Radiographic Technicians, Oakland, CA
- 2007 The Untold Truth about Sleep Surgery: Hypopharyngeal Surgery, AASM, Minneapolis, MN
- 2007 Surgical Treatment of Obstructive Sleep Apnea, American Association of Sleep Technologists, Minneapolis, MN
- 2007 Evidence-Based Management of Sleep Apnea in 2007: Hypopharyngeal Surgery, American Academy of Otolaryngology—Head and Neck Surgery, Washington, DC
- 2007 Evolution or Revolution in Health Care, UCSF Department of Otolaryngology—Head and Neck Surgery, San Francisco, CA
- 2007 The Big Picture—What You Need to Know About Sleep Apnea Surgery, UCSF Department of Otolaryngology—Head and Neck Surgery, San Francisco, CA
- 2008 Identifying Sites of Obstruction in OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, San Francisco, CA
- 2008 Avoiding Complications in the Sleep Apnea Patient, Advances in Otolaryngology Head and Neck Surgery 2008, Las Vegas, NV

- 2008 New and Old Technologies in the Treatment of Snoring and Sleep Apnea, Advances in Otolaryngology Head and Neck Surgery 2008, Las Vegas, NV
- 2008 Management of Snoring and Sleep Apnea, Advances in Otolaryngology Head and Neck Surgery 2008, Las Vegas, NV
- 2008 Surgery Is Indicated for OSA, American Thoracic Society, Toronto, Canada
- 2008 When Should I Refer OSA Patients for Surgery: The Effectiveness of Sleep Surgery, Associated Professional Sleep Societies, Baltimore, MD
- 2008 Who Should (Not) Have Surgery for OSA: Older Adults, AAO-HNS, Chicago, IL
- 2009 Physical Exam, Cephalometrics, and Endoscopy for OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2009 Identifying Sites of Obstruction in Patients with OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2009 What Are the Best Treatment Options for Snoring?, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2009 Upper Airway Surgery: Some Gain for the Pain?, American Thoracic Society, San Diego, CA
- 2009 Sleep-Disordered Breathing and Daytime Functioning in Older Men, American Thoracic Society, San Diego, CA
- 2009 Treatment of Geriatric Sleep Apnea: Con, Associated Professional Sleep Societies, Seattle, WA
- 2009 What to Do After Unsuccessful Sleep Apnea Surgery: Drug-Induced Sleep Endoscopy, AAO-HNS, San Diego, CA
- 2009 Contemporary Snoring Management, UCSF Department of Otolaryngology—Head and Neck Surgery, San Francisco, CA
- 2010 Physical Examination and Identifying the Sites of Obstruction in OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, San Francisco, CA
- 2010 Geriatric OSA — Should We Treat It?, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, San Francisco, CA
- 2010 Novel Options for Treating OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, San Francisco, CA
- 2010 Surgical Approach to Obstructive Sleep Apnea 2010, Pacific Rim Otolaryngology-Head and Neck Surgery Update, Honolulu, HI
- 2010 Snoring: What Works?, Pacific Rim Otolaryngology-Head and Neck Surgery Update, Honolulu, HI
- 2011 Managing the Large Tongue in OSA, Triological Society Combined Section Meeting, Scottsdale, AZ
- 2011 Upper Airway Physical Examination and Identifying the Sites of Obstruction in Patients with OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2011 Selecting Hypopharyngeal Surgery in OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2011 Novel Options for Treating OSA in 2011 and Beyond, Advances in Diagnosis and

- Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2011 Novel Options for Treating OSA, American Osteopathic College of Ophthalmology & Otolaryngology-Head and Neck Surgery Annual Meeting, Tucson, AZ
- 2011 OSA Surgery: Reviewing the Reviews and Their Implications, AAO-HNS, San Francisco, CA
- 2011 Epiglottis: Saint or Sinner in OSA?, UCSF Department of Otolaryngology—Head and Neck Surgery, San Francisco, CA
- 2012 Physical Examination and Identifying the Sites of Obstruction in Patients with OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, San Francisco, CA
- 2012 Selecting Hypopharyngeal Surgery in OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, San Francisco, CA
- 2012 Novel Options for Treating Obstructive Sleep Apnea, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, San Francisco, CA
- 2012 Sleep and the Nose, American Rhinologic Society Annual Meeting, San Diego, CA
- 2012 Novel Sleep Apnea Surgical Treatments: Hypoglossal Nerve Stimulators, AAO-HNS, Washington, DC
- 2012 Take It to Trial: Beyond Testing Your Hypothesis, AAO-HNS, Washington, DC
- 2013 Upper Airway Physical Examination and Identifying the Sites of Obstruction in Patients with OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2013 Selecting Hypopharyngeal Surgery in OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2013 Novel Surgical Options for Treating OSA in 2013 and Beyond, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2013 Palate Surgery in OSA: How to Choose Among the Options?, AAO-HNS Annual Meeting, Vancouver, BC, Canada
- 2013 Sleep Apnea Physical Exam and Sleep Endoscopy, UCSF Department of Otolaryngology—Head and Neck Surgery, San Francisco, CA
- 2014 Physical Examination and Identifying the Pattern of Obstruction, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, San Francisco, CA
- 2014 Selecting Hypopharyngeal Surgery in OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, San Francisco, CA
- 2014 Novel Options for Treating Snoring and OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, San Francisco, CA
- 2014 Physical Examination and Endoscopy for OSA, OSAS Surgery International Course, Orlando, FL
- 2014 New Technologies for the Treatment of Snoring and OSA, OSAS Surgery International Course, Orlando, FL
- 2014 Issues You Cannot Ignore in Your Older Patients: Sleep Surgery Con, Triological Society Annual Meeting, Las Vegas, NV
- 2014 Procedure Selection with Drug-Induced Sleep Endoscopy, AAO-HNS Annual Meeting,

Orlando, FL

- 2014 Sleep Surgery Potpourri: Ask the Experts, AAO-HNS Annual Meeting, Orlando, FL
- 2014 Palate Surgery in OSA: How to Choose Among the Options?, AAO-HNS Annual Meeting, Orlando, FL
- 2014 Hypoglossal Nerve Stimulation in OSA: Apnex Medical, AAO-HNS Annual Meeting, Orlando, FL
- 2015 Drug-Induced Sleep Endoscopy to Identify the Sites of Obstruction, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2015 Hypopharyngeal Surgery and Maxillomandibular Advancement, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2015 Novel Options for Treating Snoring and OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2015 Personalized Medicine for Sleep Apnea: Selecting Patients for Site-Specific Surgery, American Thoracic Society Annual Meeting, Denver, CO
- 2015 Surgical Treatment of Obstructive Sleep Apnea, American Thoracic Society Annual Meeting, Denver, CO
- 2015 Palate Surgery in OSA: How to Choose Among the Options?, AAO-HNS Annual Meeting, Dallas, TX
- 2015 Sleep Surgery Potpourri: Ask the Experts, AAO-HNS Annual Meeting, Dallas, TX
- 2015 Take the DISE Challenge!, AAO-HNS Annual Meeting, Dallas, TX
- 2015 State of the Art: Drug-Induced Sedated Endoscopy for OSA, AAO-HNS Annual Meeting, Dallas, TX
- 2015 Plenary Presentation, Outpatient Upper Airway Surgery for OSA: Is It Suitable?, Society of Anesthesia and Sleep Medicine Annual Meeting, San Diego, CA
- 2016 Does Treatment of Nasal of Nasal Obstruction Matter in Sleep Apnea?, University of Southern California Advanced Sinus Course, Los Angeles, CA
- 2016 Drug-Induced Sleep Endoscopy, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, San Francisco, CA
- 2016 Surgery of the Hypopharynx: So Many Choices..., Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, San Francisco, CA
- 2016 Hypoglossal Nerve Stimulation – Has Its Time Come?, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, San Francisco, CA
- 2016 Surgical Treatment of Obstructive Sleep Apnea, American Academy of Sleep Medicine Sleep Fellowship Directors Council Lecture Series, Los Angeles, CA
- 2016 Assessment and Treatment of Hypopharyngeal Obstruction, AAO-HNS Annual Meeting, San Diego, CA
- 2016 Lessons Learned in Sleep Apnea Surgery, AAO-HNS Annual Meeting, San Diego, CA
- 2017 Drug-Induced Sleep Endoscopy to Identify Sites of Obstruction in Patients with OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL

- 2017 Selecting Hypopharyngeal Surgery in OSA, including Maxillomandibular Advancement, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2017 Year in Review: Surgical Evaluation and Treatment of Obstructive Sleep Apnea, Sleep 2017, Boston, MA
- 2017 Drug-Induced Sleep Endoscopy in Obstructive Sleep Apnea, AAO-HNS Annual Meeting, Chicago, IL
- 2017 Hypopharyngeal Surgery in Obstructive Sleep Apnea, AAO-HNS Annual Meeting, Chicago, IL
- 2017 Alternatives to Upper Airway Surgery for Obstructive Sleep Apnea: Expiratory Positive Airway Pressure, Oral Pressure Therapy, and Exercises, AAO-HNS Annual Meeting, Chicago, IL
- 2017 Ask the Experts: Sleep Apnea Decisions in 2017, AAO-HNS Annual Meeting, Chicago, IL
- 2017 Drug-Induced Sleep Apnea in Obstructive Sleep Apnea, AAO-HNS Annual Meeting, Chicago, IL
- 2018 Drug-Induced Sleep Endoscopy, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, San Francisco, CA
- 2018 Surgery of the Hypopharynx: So Many Choices..., Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, San Francisco, CA
- 2019 Drug-Induced Sleep Endoscopy to Identify Sites of Obstruction in Patients with OSA, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL
- 2019 Selecting Hypopharyngeal Surgery in OSA, including Maxillomandibular Advancement, Advances in Diagnosis and Treatment of Sleep Apnea and Snoring, Orlando, FL

REGIONAL AND OTHER INVITED PRESENTATIONS

- 2004 Hypopharyngeal Surgery in Obstructive Sleep Apnea, UCSF Dept of Otolaryngology — Head and Neck Surgery, San Francisco, CA
- 2005 Drug-Induced Sleep Endoscopy in Obstructive Sleep Apnea, UCSF Dept of Otolaryngology — Head and Neck Surgery, San Francisco, CA
- 2005 Surgical Evaluation and Treatment of Snoring and Obstructive Sleep Apnea, UCSF Sleep Disorders Center, San Francisco, CA
- 2005 Evaluation Techniques and Hypopharyngeal Surgery in Obstructive Sleep Apnea, UC Davis Dept of Otolaryngology — Head and Neck Surgery, Sacramento, CA
- 2005 Surgical Evaluation and Treatment of Obstructive Sleep Apnea, UCSF Sleep Disorders Center, San Francisco, CA
- 2006 Workup of Sleep Apnea I — History, Physical Exam, Sleep Endoscopy, Current Concepts in Obstructive Sleep Apnea, Los Angeles, CA
- 2006 Perioperative Risks and Management in OSA, Current Concepts in Obstructive Sleep Apnea, Los Angeles, CA
- 2006 Treating Hypopharyngeal Obstruction in OSA — An Evidence-Based Medicine

- Review, Current Concepts in Obstructive Sleep Apnea, Los Angeles, CA
- 2006 Evaluation and Surgical Management of Obstructive Sleep Apnea, Kaiser-Permanente Medical Foundation, Oakland, CA
- 2006 Evaluation and Management of Snoring, Kaiser-Permanente Medical Foundation, Oakland, CA
- 2006 The Nose and OSA, UCSF Sleep Disorders Center, San Francisco, CA
- 2006 Surgical Management of OSA, Sonoma Valley Hospital, Sonoma, CA
- 2006 Measuring the Effectiveness of Sleep Apnea Surgery, UCSF Department of Otolaryngology—Head and Neck Surgery
- 2007 Office Procedures for Sleep Apnea and Snoring, Pacific Coast Oto-Ophthalmological Society, Oahu, HI
- 2007 Surgical Treatment of Obstructive Sleep Apnea, Marin General Hospital/Marin Medical Society, Greenbrae, CA
- 2007 Surgical Treatment of Obstructive Sleep Apnea, UCSF Sleep Disorders Center, San Francisco, CA
- 2008 New and Old Technologies in the Treatment of Snoring and Obstructive Sleep Apnea, UCSF Department of Otolaryngology—Head Neck Surgery, San Francisco, CA
- 2008 Identifying the Sites of Obstruction in Sleep Apnea, Georgia Society of Otolaryngology/Head & Neck Surgery, Ponte Vedra, FL
- 2008 Palatal Surgery for Snoring and Obstructive Sleep Apnea, Georgia Society of Otolaryngology/Head & Neck Surgery, Ponte Vedra, FL
- 2008 Hypopharyngeal Surgery for Snoring and Obstructive Sleep Apnea, Georgia Society of Otolaryngology/Head & Neck Surgery, Ponte Vedra, FL
- 2009 Evaluating Patients with Obstructive Sleep Apnea and OSA in the Elderly: Should We Treat Them?, Kaiser Permanente, Redondo Beach, CA
- 2009 Operative Techniques and Outcomes in Obstructive Sleep Apnea, Kaiser Permanente, Redondo Beach, CA
- 2009 Surgical Treatment of Obstructive Sleep Apnea, UCSF Sleep Disorders Center, San Francisco, CA
- 2010 Sleep Medicine 2010, UCSF Department of Medicine, San Francisco, CA
- 2010 Identifying the Sites of Obstruction in OSA, Pacific Coast Oto-Ophthalmological Society, Monterey, CA
- 2010 New Technologies in the Treatment of Sleep Apnea, Pacific Coast Oto-Ophthalmological Society, Monterey, CA
- 2010 Snoring and OSA in Older Adults: Should We Treat It and How?, Fromm Institute, University of San Francisco, San Francisco, CA
- 2011 Surgical Treatment of Obstructive Sleep Apnea, University of California, Los Angeles Head and Neck Surgery, Los Angeles, CA
- 2011 Surgical Treatment of Obstructive Sleep Apnea, UCSF Sleep Disorders Center, San Francisco, CA

- 2011 Surgical Treatment of Obstructive Sleep Apnea, Stanford Otolaryngology—Head and Neck Surgery, Palo Alto, CA
- 2013 Drug-Induced Sleep Endoscopy: Identifying the Site of Obstruction, School of Medicine of Loma Linda University, Loma Linda, CA
- 2013 Selecting Hypopharyngeal Surgery in OSA, School of Medicine of Loma Linda University, Loma Linda, CA
- 2013 Neuromuscular Stimulation for Sleep Apnea, School of Medicine of Loma Linda University, Loma Linda, CA
- 2013 Geriatric Sleep Apnea: Should We Treat It?, School of Medicine of Loma Linda University, Loma Linda, CA
- 2013 Novel Treatment Options for Obstructive Sleep Apnea, Armenian American Medical Society, Los Angeles, CA
- 2013 Surgical Evaluation and Treatment of Obstructive Sleep Apnea, Los Angeles Society of Otolaryngology, Los Angeles, CA
- 2014 Update on Hypopharyngeal and Base of Tongue Management in OSA, Research Study Club, Los Angeles, CA
- 2014 Identifying the Site of Obstruction in OSA, University of Utah Division of Otolaryngology – Head & Neck Surgery, Salt Lake City, UT
- 2014 Soft Palate Surgery in OSA, University of Utah Division of Otolaryngology – Head & Neck Surgery, Salt Lake City, UT
- 2014 Novel Treatment Options for Snoring and OSA, University of Utah Division of Otolaryngology – Head & Neck Surgery, Salt Lake City, UT
- 2014 Surgical Treatment of Obstructive Sleep Apnea, University of California, Irvine Department of Otolaryngology—Head and Neck Surgery, Irvine, CA
- 2014 Surgical Treatment of Obstructive Sleep Apnea, Keck School of Medicine of USC Department of Neurology, Los Angeles, CA
- 2015 Surgical Treatment of Obstructive Sleep Apnea, New York Eye and Ear Infirmary of Mount Sinai, New York, NY
- 2015 Updates and Future Trends in the Surgical Treatment of OSA, Rush University Medical Center, Chicago, IL
- 2016 Drug-Induced Sleep Endoscopy and Surgical Treatment of OSA, Cedars-Sinai Medical Center, Los Angeles, CA
- 2016 Surgical Evaluation and Treatment of Obstructive Sleep Apnea and Snoring, Western Los Angeles Dental Society, Los Angeles, CA
- 2016 Personalized Medicine in Sleep Apnea Surgery, California Thoracic Society, San Diego, CA
- 2016 Advances in OSA Surgery and Hypoglossal Nerve Stimulation, California Sleep Society, Anaheim, CA
- 2017 Office Management of Sleep Apnea and Snoring, Research Study Club, Los Angeles, CA
- 2017 Sleep Endoscopy: How I Do It, Cedars-Sinai Medical Center, Los Angeles, CA
- 2017 Hypopharyngeal Surgery, The Permanente Medical Group, TPMG Sleep Surgery

- Symposium, Oakland, CA
- 2018 Surgical Evaluation and Treatment of Obstructive Sleep Apnea, School of Medicine of Loma Linda University, Loma Linda, CA
- 2018 Advances in OSA Surgery and Hypoglossal Nerve Stimulation, California Sleep Society, San Diego, CA

CONTINUING EDUCATION COURSES ATTENDED

- 2003 Contemporary Surgical Concepts and Techniques in Snoring and Sleep-Disordered Breathing, Burlingame, CA
- 2003 AO/ASIF Advanced Symposium on Craniomaxillofacial Trauma and Reconstruction, Scottsdale, AZ
- 2004 UCSF Training in Clinical Research Summer Workshop, San Francisco, CA
- 2004 NIH Funding Opportunities, Peer Review, and Grant Writing, Palo Alto, CA
- 2005 Conference on Research Education and Training in Otolaryngology, Alexandria, VA
- 2008 CTSA KL2, K12, and K30 Clinical Research Scholars and Association for Clinical Research Training, Washington, DC
- 2008 Techniques in Sleep Apnea Surgery: Advanced Palatopharyngoplasty and Glossectomy, Chicago, IL
- 2010 Developing a Leadership Profile: Self-Awareness & Working Across Personality Differences, San Francisco, CA

UNIVERSITY AND PUBLIC SERVICE

UNIVERSITY SERVICE

SCHOOL OF MEDICINE

- 1995 – 1997 Committee on Admissions, University of Pennsylvania School of Medicine
- 1998 – 1999 Committee for Graduate Medical Education, University of Washington School of Medicine
- 2005 – 2013 Student Research Committee/Resource Allocation Program for Trainees Review Committee, UCSF
- 2009 – 2013 CTST for Residents Committee, UCSF
- 2014 Member, Chair Search Committee, Department of Emergency Medicine, Keck School of Medicine of USC
- 2015 – 2017 Member, Clinical Appointments and Promotions Committee, Keck School of Medicine of USC
- 2018 – present Member, Risk Management and Patient Safety Committee, Keck Medicine of USC

DEPARTMENTAL SERVICE

- 2004 – 2013 Director, Resident Research, UCSF Department of Otolaryngology—
Head and Neck Surgery
- 2007 – 2013 Finance Committee, UCSF Department of Otolaryngology—Head and
Neck Surgery
- 2013 – present Director, Resident Research, USC Department of Otolaryngology—
Head & Neck Surgery

TEACHING AND MENTORING**TEACHING**

POSTGRADUATE AND OTHER COURSES

2005 – present	Otolaryngology – Head and Neck Surgery residency sleep surgery education curriculum, UCSF	Developed module including didactics and surgical skills workshop. Responsibilities also include teaching.
2005 – present	CME Course; Drug-induced sleep endoscopy in snoring and obstructive sleep apnea, AAO-HNS	Course Director
2006	CME Course; Surgery, Sleep, and Breathing II, Medical College of Wisconsin	Organizing Committee
2007 – present	CME Course; Advances in Diagnosis and Treatment of Sleep Apnea, UC San Francisco/University of Pennsylvania	Course Co-Director
2010 – present	CME Course; Selecting a Hypopharyngeal Surgery in OSA, AAO- HNS	Course Director
2014 – present	Introduction to Clinical and Translational Research Study Design, Keck School of Medicine of USC	Co-Director
2014	CME Course; Surgery, Sleep, and Breathing VI, Henry Ford Health System	Organizing Committee
2015-2016	CME Course; Surgery, Sleep, and Breathing VII, University of Sao Paulo, Brazil	Co-Chair
2016	International Surgical Sleep Society Meeting	Co-Director
2017	International Surgical Sleep Society Meeting	Director

RESEARCH AND CREATIVE ACTIVITIES

RESEARCH AWARDS

PRESENT

Inspire Medical Systems (PI)	2016-2021
Inspire Upper Airway Stimulation System Post Approval Study	\$305,000 total

NIH/NCATS (Consultant)	2016-2021
Southern California Clinical and Translational Science Institute	\$1.7 million direct/year 1
	\$9.5 million total

AAO-HNSF	2019-2020
Health Services Research Grant	\$10,000 total

Drug-Induced Sleep Endoscopy and Upper Airway Stimulation Outcomes

PAST

NIH/NIA (Collaborator)	1986 – 2011
Study of Osteoporotic Fractures	

NIH (Investigator)	1996 - 1996
Research Training Grant (Research Fellow)	\$1,000 total

NIH/NIDCS - NIH/NIDCD (Principal Investigator)	1998 - 1999
Research Training Grant (Research Fellow)	\$25,000 total

VA Epidemiology Research and Information Center (Collaborator)	2000 - 2003
Quantifying and Predicting Risk of Serious Complications after Sleep Apnea Surgery in Veterans	

NIH/NHLBI (Collaborator)	2003 - 2008
Outcomes of Sleep Disorders in Older Men	\$406,992 total

AAO-HNS (Principal Investigator)	2004 - 2005
Earleen Elkins Research Training Award	\$13,500 direct/yr1
Propofol Sleep Endoscopy in Obstructive Sleep Apnea	\$13,500 total

UCSF (Principal Investigator)	2005 - 2007
Measuring Effectiveness in Sleep Apnea Surgery	\$12,500 direct/yr1
	\$24,842 total

Hearing Research International (Principal Investigator) Foundation Measuring the Effectiveness of Sleep Apnea Surgery	2007 - 2009 \$7,500 direct/yr1 \$7,500 total
MESAS (Principal Investigator) Foundation Triological Society Career Development Award	2008 - 2010 \$18,181 direct/yr1 \$36,363 total
KL2 RR024130 (Investigator) NIH/NCRR Clinical and Translational Science Institute	07/01/2007 - 06/30/2011 \$140,000 direct/yr1 \$560,000 total
Apnex Medical (Principal Investigator) Apnex Medical Hypoglossal Nerve Stimulation System Safety and Feasibility Trial	06/01/2010 - 03/15/2013 \$150,000 direct/yr1 \$350,000 total
Apnex Medical (Co-Principal Investigator) Clinical Services Agreement	11/01/2011 - 03/15/2013 \$100,000 direct/yr1 \$250,000 total
Apnex Medical (Co-Investigator) Apnex Medical Hypoglossal Nerve Stimulation System Pivotal Trial	03/31/2012 - 03/15/2013 \$80,000 direct/yr1 \$80,000 total
8UL1TR000130 (Principal Investigator) NIH/NCRR/NCATS Drug-Induced Sleep Endoscopy and Magnetic Resonance Imaging in Obstructive Sleep Apnea	2014-2016 \$49,000 total
Autonomic Technologies, Inc. (Co-Investigator)	2015-2019
Pathway CH2: Sphenopalatine Ganglion Stimulation for the Treatment of Chronic Cluster Headache	\$400,000 total
American Sleep Medicine Foundation (Principal Investigator) Drug-Induced Sleep Endoscopy and Surgical Outcomes: an International, Multicenter Cohort Study	2015-2017 \$20,000 total

PEER REVIEWED PUBLICATIONS

1. Kezirian EJ, Alsarraf R, Lykins C, Futran ND. Imaging quiz case 3. Cervical tuberculous lymphadenopathy (scrofula). *Arch Otolaryngol Head Neck Surg* 2000;126:1501,1504-5.
2. Tufano J, Conrad DA, Sales A, Maynard C, Noren J, Kezirian E, Schellhase KG, Liang SY. Effects of compensation method on physician behaviors. *Am J Manag Care* 2001;7:363-73.
3. Kezirian EJ, White KR, Yueh B, Sullivan SD. Cost and cost-effectiveness of universal screening for hearing loss in newborns. *Otolaryngol Head Neck Surg* 2001;124:359-67.
4. Kezirian EJ, Yueh B. Accuracy of terminology and methodology in economic analyses in otolaryngology. *Otolaryngol Head Neck Surg* 2001;124:496-502.
5. Kezirian EJ, Yueh B. Introduction to cost analysis in facial plastic surgery. *Facial Plast Surg* 2002;18:95-9.
6. Kezirian EJ, Weaver EM, Yueh B, Deyo RA, Khuri SF, Daley J, Henderson W. Incidence of serious complications after uvulopalatopharyngoplasty. *Laryngoscope* 2004;114:450-3.
7. Kamdar BB, Kaplan KA, Kezirian EJ, Dement WC. The impact of extended sleep on daytime alertness, vigilance, and mood. *Sleep Med* 2004;5:441-8.
8. Bowden MT, Kezirian EJ, Utley D, Goode RL. Outcomes of hyoid suspension for the treatment of obstructive sleep apnea. *Arch Otolaryngol Head Neck Surg* 2005;131:440-5.
9. Kezirian EJ, Powell NB, Riley RW, Hester JE. Incidence of complications in radiofrequency treatment of the upper airway. *Laryngoscope* 2005;115:1298-304.
10. Kezirian EJ, Goldberg AN. Hypopharyngeal surgery in obstructive sleep apnea: an evidence-based medicine review. *Arch Otolaryngol Head Neck Surg* 2006;132:206-13.
11. Farwell DG, Kezirian EJ, Heydt JL, Yueh B, Futran ND. Efficacy of small reconstruction plates in vascularized bone graft mandibular reconstruction. *Head Neck* 2006;28:573-9.
12. Kezirian EJ, Weaver EM, Yueh B, Khuri SF, Daley J, Henderson WG. Risk factors for serious complication after uvulopalatopharyngoplasty. *Arch Otolaryngol Head Neck Surg* 2006;132:1091-8.
13. Kezirian EJ, Harrison SL, Ancoli-Israel S, Redline S, Ensrud K, Claman DM, Stone KL. Behavioral correlates of sleep-disordered breathing in older women. *Sleep* 2007;30:1181-8.
14. Kezirian EJ, Kirisoglu CE, Riley RW, Chang E, Guilleminault C, Powell NB. Resting energy expenditure in adults with sleep disordered breathing. *Arch Otolaryngol Head Neck Surg* 2008;134:1270-5.
15. Kezirian EJ, Harrison SL, Ancoli-Israel S, Redline S, Ensrud K, Goldberg AN, Claman DM, Spira AP, Stone KL. Behavioral correlates of sleep-disordered breathing in older men. *Sleep* 2009;32:253-61.
16. Rodriguez-Bruno K, Goldberg AN, McCulloch CE, Kezirian EJ. Test-retest reliability of drug-induced sleep endoscopy. *Otolaryngol Head Neck Surg* 2009;140:646-51.

17. Eskiizmir G, Kezirian E. Is there a vicious cycle between obstructive sleep apnea and laryngopharyngeal reflux disease? *Med Hypotheses* 2009;73:706-8.
18. Eastwood PR, Malhotra A, Palmer LJ, Kezirian EJ, Horner RL, Ip MS, Thurnheer R, Antic NA, Hillman DR. Obstructive Sleep Apnoea: From pathogenesis to treatment: Current controversies and future directions. *Respirology* 2010;15:587-95.
19. Kezirian EJ, White DP, Malhotra A, Ma W, McCulloch CE, Goldberg AN. Interrater reliability of drug-induced sleep endoscopy. *Arch Otolaryngol Head Neck Surg* 2010;136:393-7.
20. Kezirian EJ, Malhotra A, Goldberg AN, White DP. Changes in obstructive sleep apnea severity, biomarkers, and quality of life after multilevel surgery. *Laryngoscope* 2010;120:441-7.
21. Kezirian EJ, Boudewyns A, Eisele DW, Schwartz AR, Smith PL, Van de Heyning PH, De Backer WA. Electrical stimulation of the hypoglossal nerve in the treatment of obstructive sleep apnea. *Sleep Med Rev* 2010;14:299-305.
22. Kezirian EJ, Maselli J, Vittinghoff E, Goldberg AN, Auerbach AD. Obstructive sleep apnea surgery practice patterns in the United States: 2000 to 2006. *Otolaryngol Head Neck Surg* 2010;143:441-7.
23. Kezirian EJ, Weaver EM, Criswell MA, de Vries N, Woodson BT, Piccirillo JF. Reporting results of obstructive sleep apnea syndrome surgery trials. *Otolaryngol Head Neck Surg* 2011;144:496-9.
24. Kim EY, Eisele DW, Goldberg AN, Maselli J, Kezirian EJ. Neck dissections in the United States from 2000 to 2006: volume, indications, and regionalization. *Head Neck* 2011;33:768-73.
25. Kezirian EJ. Nonresponders to pharyngeal surgery for obstructive sleep apnea: insights from drug-induced sleep endoscopy. *Otolaryngol Head Neck Surg* 2011;121:1320-6.
26. Mah CD, Mah KE, Kezirian EJ, Dement WC. The effects of sleep extension on the athletic performance of collegiate basketball players. *Sleep* 2011;34:943-50.
27. Kezirian EJ, Hohenhorst W, de Vries N. Drug-induced sleep endoscopy: the VOTE classification. *Eur Arch Otorhinolaryngol* 2011;268:1233-6.
28. Kim EY, Courey MS, Kezirian EJ. Treatment of trigger-point hypersensitivity of gag reflex following surgical treatment of obstructive sleep apnea. *Otolaryngol Head Neck Surg* 2011;145:176-77.
29. Eastwood PR, Barnes M, Walsh JH, Maddison KJ, Hee G, Schwartz AR, Smith PL, Malhotra A, McEvoy RD, Wheatley JR, O'Donoghue FJ, Rochford PD, Churchward T, Campbell MC, Palme CE, Robinson S, Goding GS, Eckert DJ, Jordan AS, Catcheside PG, Tyler L, Antic NA, Worsnop CJ, Kezirian EJ, Hillman DR. Treating obstructive sleep apnea with hypoglossal nerve stimulation. *Sleep* 2011;34:1479-86.
30. Beaudreau SA, Spira AP, Stewart A, Kezirian EJ, Lui L-Y, Ensrud K, Redline S, Ancoli-Israel S, Stone KL, Study of Osteoporotic Fractures. Validation of the Pittsburgh Sleep Quality Index and Epworth Sleepiness Scale in older black and white women. *Sleep Med* 2012;13:36-42.

31. Schwartz AR, Barnes M, Hillman D, Malhotra A, Kezirian E, Smith PL, Hoegh T, Parrish D, Eastwood PR. Acute upper airway responses to hypoglossal nerve stimulation in obstructive sleep apnea. *Am J Respir Crit Care Med* 2012;185:420-6.
32. Rosenbluth KH, Kwiat DA, Harrison MR, Kezirian EJ. Hyoid bone advancement for improving airway patency: cadaver study of a magnet-based system. *Otolaryngol Head Neck Surg* 2012;146:491-6.
33. Spira AP, Beaudreau SA, Stone KL, Kezirian EJ, Lui L-Y, Redline S, Ancoli-Israel S, Ensrud K, Stewart A. Reliability and validity of the Pittsburgh Sleep Quality Index and Epworth Sleepiness Scale in older men. *J Ger Med Sci* 2012;67A:433-9.
34. Goding GS, Tesfayesus W, Kezirian EJ. Hypoglossal nerve stimulation and airway changes under fluoroscopy. *Otolaryngol Head Neck Surg* 2012;146:1017-22.
35. Kezirian EJ, Hussey HM, Brietzke SE, Cohen SM, Davis GE, Shin JJ, Weinberger DG, Cabana MD. Hypopharyngeal surgery in obstructive sleep apnea: practice patterns, perceptions, and attitudes. *Otolaryngol Head Neck Surg* 2012;147:964-71.
36. Durr ML, Meyer AK, Kezirian EJ, Rosbe KW. Drug-induced sleep endoscopy in persistent pediatric sleep disordered breathing after adenotonsillectomy. *Arch Otolaryngol Head Neck Surg* 2012;138:638-43.
37. George JR, Chung S, Nielsen I, Goldberg AN, Miller A, Kezirian EJ. Comparison of drug-induced sleep endoscopy and lateral cephalometry in obstructive sleep apnea. *Laryngoscope* 2012;122:2600-5.
38. Jauregui EJ, Calkins SM, Kezirian EJ. Heterotopic ossification and delayed foreign body reaction after hyoid suspension for obstructive sleep apnea. *Otolaryngol Head Neck Surg* 2013;148:527-8.
39. Khan A, Harrison SL, Kezirian EJ, Ancoli-Israel S, O'Hearn D, Orwoll E, Redline S, Ensrud K, Stone KL. Obstructive sleep apnea during rapid eye movement sleep, daytime sleepiness, and quality of life in older men in Osteoporotic Fractures in Men (MrOS) Sleep Study. *J Clin Sleep Med* 2013;9:191-198.
40. Kezirian EJ, Chang JL. Snoring without OSA and health consequences: the jury is still out. *Sleep* 2013;36:613.
41. Chang JL, Kezirian EJ. What are the health risks of snoring without obstructive sleep apnea? *Laryngoscope* 2013;123:1321-2.
42. Durr ML, van Zante A, Li D, Kezirian EJ, Wang SJ. Oral tongue squamous cell carcinoma and never-smokers: analysis of clinicopathologic characteristics and survival. *Otolaryngol Head Neck Surg* 2013; 149:89-96.
43. Kezirian EJ. SKUP3: a major step forward in sleep surgery research. *Thorax* 2013 Sep;68:801-2.
44. Vroegop AV, Vanderveken OM, Wouters K, Hamans E, Dieltjens M, Michels NR, Hohenhorst W, Kezirian EJ, Kotecha BT, de Vries N, Braem MJ, Van de Heyning PH. Observer

variation in drug-induced sleep endoscopy: experienced versus nonexperienced ear, nose, and throat surgeons. *Sleep* 2013 Jun 1;36:947-53.

45. Heaton CM, Chazen JL, van Zante A, Glastonbury CM, Kezirian EJ, Eisele DW. Pleomorphic adenoma of the major salivary glands: diagnostic utility of FNAB and MRI. *Laryngoscope* 2013 Dec;123(12):3056-60.

46. Kezirian EJ, Goding GS Jr, Malhotra A, O'Donoghue FJ, Zammit G, Wheatley JR, Catcheside PG, Smith PL, Schwartz AR, Walsh JH, Maddison KJ, Claman DM, Huntley T, Park SY, Campbell MC, Palme CE, Iber C, Eastwood PR, Hillman DR, Barnes M. Hypoglossal nerve stimulation improves obstructive sleep apnoea: 12-month outcomes. *J Sleep Res* 2014 Feb;23:77-83.

47. Capasso R, Jacobowitz O, Kezirian EJ, Weaver EM. Management of obstructive sleep apnea in adults. *Ann Int Med* 2014 Mar;160:367.

48. Goepfert RP, Kezirian EJ, Wang SJ. Oral tongue squamous cell carcinoma in young women: a matched comparison—do outcomes justify treatment intensity? *ISRN Otolaryngology* 2014 Mar 10;2014:529395.

49. Kezirian EJ. Surgical evaluation in obstructive sleep apnea: climbing the steep part of the learning curve. *JAMA Otolaryngol Head Neck Surg* 2014; 140: 568.

50. Kezirian EJ. Does my tongue look fat? *Sleep* 2014;37: 1583-4.

51. Pietzsch JB, Liu S, Garner AM, Kezirian EJ, Strollo PJ. Long-Term Cost-Effectiveness of Upper Airway Stimulation for the Treatment of Obstructive Sleep Apnea: A Model-Based Projection Based on the STAR Trial. *Sleep* 2015;38: 735-44.

52. Li HY, Lee LA, Kezirian EJ. Coblation endoscopic lingual lightening (CELL) for obstructive sleep apnea. *Eur Arch Otorhinolaryngol*. 2016; 273: 231-6.

53. Friedman NR, Prager JD, Ruiz AG, Kezirian EJ. A pediatric grading scale for lingual tonsil hypertrophy. *Otolaryngol Head Neck Surg* 2016 Jan; 154: 171-4.

54. Li HY, Lee LA, Kezirian EJ. Efficacy of Coblation endoscopic lingual lightening in multilevel surgery for obstructive sleep apnea. *JAMA Otolaryngol Head Neck Surg*. 2016 May; 142: 438-43.

55. Chung F, Memtsoudis SG, Ramachandran SK, Nagappa M, Opperer M, Cozowicz C, Patrawala S, Lam D, Kumar A, Joshi GP, Fleetham J, Ayas N, Collop N, Doufas AG, Eikermann M, Englesakis M, Gali B, Gay P, Hernandez AV, Kaw R, Kezirian EJ, Malhotra A, Mokhlesi B, Parthasarathy S, Stierer T, Wappler F, Hillman DR, Auckley D. *Anesth Analg*. 2016 Aug; 123(2): 452-73. Society of Anesthesia and Sleep Medicine Guidelines on Preoperative Screening and Assessment of Adult Patients with Obstructive Sleep Apnea. *Anesth Analg*. 2016 Aug;123:452-73.

56. Kezirian EJ. Acclimation settings with identical or similar sensation and functional thresholds. *Laryngoscope*. 2016 Sep;126 Suppl 7:S20-1.

57. Charakorn N, Kezirian EJ. Drug-induced sleep endoscopy. *Otolaryngol Clin North Am*. 2016 Dec;49:1359-72.

58. Durr ML, Meyer AK, Kezirian EJ, Mamlouk MD, Frieden IJ, Rosbe KW. Sleep-disordered breathing in pediatric head and neck vascular malformations. *Laryngoscope*. 2017 Sep;127:2159-64.
59. Brietzke SE, Ishman SL, Cohen S, Cyr DD, Shin JJ, Kezirian EJ. National database analysis of single-level versus multilevel sleep surgery. *Otolaryngol Head Neck Surg*. 2017 May; 156(5):955-961.
60. Genta PR, Sands SA, Butler JP, Loring SH, Katz ES, Demko BG, Kezirian EJ, White DP, Wellman A. Airflow shape is associated with the pharyngeal structure causing obstructive sleep apnea. *Chest*. 2017 Sep;152(3):537-546.
61. Ong AO, Ayers CM, Kezirian EJ, Woodson BT, de Vries N, Nguyen SA, Gillespie MB. Application of drug-induced sleep endoscopy in patients treated with upper airway stimulation therapy. *World J Otorhinolaryngol Head Neck Surg*. 2017 Mar. 92-96.
62. Ravesloot MJL, Benoist L, van Maanen P, Kezirian EJ, de Vries N. Advances in the diagnosis of obstructive sleep apnea: drug-induced sleep endoscopy. *Adv Otorhinolaryngol*. 2017;80:22-27.
63. Irvine LE, Yang Z, Kezirian EJ, Nimni ME, Han B. Hyoepiglottic ligament collagen and elastin fiber composition and changes associated with aging. *Laryngoscope*. 2018 May; 128:1245-48.
64. Li HY, Lee LA, Kezirian EJ, Nakayama M. Suspension palatoplasty for obstructive sleep apnea - a preliminary study. *Sci Rep*. 2018 Mar 9;8(1):4224. doi: 10.1038/s41598-018-22710-1.
65. Boon M, Huntley C, Steffen A, Maurer JT, Sommer JU, Schwab R, Thaler E, Soose R, Chou C, Strollo P, Kezirian EJ, Chia S, Withrow K, Weidenbecher M, Strohl K, Doghramji K, Hofauer B, Heiser C; ADHERE Registry Investigators. Upper Airway Stimulation for Obstructive Sleep Apnea: Results from the ADHERE Registry. *Otolaryngol Head Neck Surg*. 2018 Aug;159(2):379-385.
66. Mah CD, Kezirian EJ, Marcello BM, Dement WC. Poor sleep quality and insufficient sleep of a collegiate student-athlete population. *Sleep Health*. 2018 Jun;4(3):251-257.
67. Heiser C, Steffen A, Boon M, Hofauer B, Doghramji K, Maurer JT, Ulrich Sommer J, Soose R, Strollo PJ Jr, Schwab R, Thaler E, Withrow K, Kominsky A, Larsen C, Kezirian EJ, Hsia J, Chia S, Harwick J, Strohl K, Mehra R; Adhere Registry Investigators. Post-Approval Upper Airway Stimulation Predictors of Treatment Efficacy in the Adhere Registry. *Eur Respir J*. 2019 Jan 3;53(1).
68. Sever O, Kezirian EJ, Gillett E, Davidson Ward SL, Khoo M, Perez IA. Association between REM sleep and obstructive sleep apnea in obese and overweight adolescents. *Sleep Breath*. 2018 Dec 15. [Epub ahead of print]
69. Yalamanchili R, Mack WJ, Kezirian EJ. Drug-induced sleep endoscopy findings in supine vs nonsupine body positions in positional and nonpositional obstructive sleep apnea. *JAMA Otolaryngol Head Neck Surg*. 2018 Dec 20. [Epub ahead of print]

70. Green KK, Kent DT, D'Agostino MA, Hoff PT, Lin HS, Soose RJ, Boyd Gillespie M, Yaremchuk KL, Carrasco-Llatas M, Tucker Woodson B, Jacobowitz O, Thaler ER, Barrera JE, Capasso R, Liu SY, Hsia J, Mann D, Meraj TS, Waxman JA, Kezirian EJ. Drug-induced sleep endoscopy and surgical outcomes: a multicenter cohort study. *Laryngoscope*. 2019 Mar: 761-70.

71. Tietjens JR, Claman D, Kezirian EJ, De Marco T, Mirzayan A, Sadroonri B, Goldberg AN, Long C, Gerstenfeld EP, Yeghiazarians Y. Obstructive sleep apnea in cardiovascular disease: a review of the literature and proposed multidisciplinary clinical management strategy. *J Am Heart Assoc*. 2019 Jan 8;8(1):e010440.

Review Articles

1. Egan KK, Kezirian EJ, Kim DW. Nasal obstruction and sleep-disordered breathing. *Operative Techniques Otolaryngology*. 2016 December; 17: 268-72.

Books and Chapters

1. Kezirian EJ, Weaver EM. Obstructive sleep apnea epidemiology and patient-centered measures. Editors: Calhoun KH, Wax M. *Geriatric Otolaryngology*: Taylor & Francis, New York. 2006. (chapter)

2. Kezirian EJ. Radiofrequency of the Palate. Editors: Kountakis SE, Onerci M. *Rhinologic and Sleep Apnea Surgical Techniques*: Springer, Berlin. 2007. (chapter)

3. Kezirian EJ. Complications of Sleep Surgery. Editors: Eisele DE, Smith RV. *Complications in Head and Neck Surgery*, 2 Ed.: Mosby, 2008. (chapter)

4. Egan KK, Kim D, Kezirian EJ. Nasal Obstruction and Sleep Disordered Breathing. Editor: Friedman M. *Sleep Apnea and Snoring: Surgical and Non-Surgical Therapy*: Saunders, 2008. (chapter)

5. Kezirian EJ, Schwab R.J. Upper Airway Imaging and Endoscopy. Editor: Kushida CA. *The Encyclopedia of Sleep*, Vol. 3: Academic Press, Waltham. (chapter)

6. Kezirian EJ, Weaver EM. Hypopharyngeal and Skeletal Surgery for OSA. Editors: Johnson JT, Rosen CA. *Bailey's Head and Neck Surgery—Otolaryngology*, 5 Ed.: Lippincott Williams & Wilkins, 2014.

Other Publications

1. Kezirian EJ. How do increases in medical professional liability insurance premiums affect physicians' fees and income?. Harvard College, Cambridge, MA. 1992.

2. Kezirian EJ. Meeting basic needs: building human capital or a drag on growth?. University of Oxford, Oxford, England. 1993.

3. Kezirian EJ. Surgical Management of Sleep Apnea and Snoring (Terris DJ, Goode RL, editors). *Resp Care J* 51:1477, 12/2006.

4. Kezirian EJ. Drug-induced sleep endoscopy. *Op Tech Otolaryngol* 17: 230-2, 12/2006.

5. Ravesloot MJL, Hohenhorst W, Kezirian EJ, de Vries N. Drug-induced sleep endoscopy in adults with sleep-disordered breathing: technique and the VOTE classification system. *Op Tech Otolaryngol.* 23: 11-18, 3/2012.

PATENTS ISSUED OR PENDING (ALLOWED)

1. Endoscopic Device and System. Kezirian EJ, Howard RA, Summers JP, Servaites JW, Durack M.
2. Device and Method for Correcting Obstructive Sleep Apnea. Harrison MR, Rosenbluth KH, Kwiat DA, Kezirian EJ, Fechter RJ, Christensen D.
3. Device and Method for Correcting Obstructive Sleep Apnea. Harrison MR, Rosenbluth KH, Kwiat DA, Kezirian EJ, Fechter RJ.
4. Head and Neck Exercise Apparatuses. Kezirian EJ, Hulme G, Christian J.
5. Head and Neck Exercise Methods. Kezirian EJ, Hulme G, Christian J.
6. Airway and Airflow Factors. Wellman DA, Kezirian EJ.

OTHER CREATIVE ACTIVITIES

1. Kezirian EJ. Sleep surgery website: Sleep-Doctor.com and Sleep-Doctor.com/blog.