

***CURRICULUM VITAE***  
**Mustafa K. Başkaya, MD**

**Personal Data**

Born: August 13, 1964

Birthplace: Aydin, Turkey

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**Academic Appointments**

May 2020 – present Endowed Professor of Robert J. Dempsey

Mar. 2017 – present Professor with Tenure, Department of Neurological Surgery, University of Wisconsin, Madison, Wisconsin, USA

2018 Fellowship Director of Cerebrovascular & Skull Base Surgery

2012 Nov.– 2017 Mar. 2017 Associate Professor of Neurosurgery (Tenure), Department of Neurological Surgery, University of Wisconsin, Madison, Wisconsin, USA

2006 Jan.– 2012 Nov. Assistant Professor of Neurosurgery (Tenure Track), Department of Neurological Surgery, University of Wisconsin, Madison, Wisconsin, USA

2008 Jan. – present Director, Skull Base Surgery Program, Department of Neurological Surgery, University of Wisconsin, Madison, Wisconsin, USA

## **Professional Appointments**

2006 Jan. – present	Attending Neurosurgeon, University of Wisconsin Hospitals and Clinics, Madison, Wisconsin
2006 Jan. – present	Consultant Neurosurgeon, Meriter Hospital, Madison, Wisconsin
2006 Jan. – present	Consultant Neurosurgeon, William H. Middleton VA Hospital, Madison, Wisconsin

## **Education and Postgraduate Training**

2005 July- Dec.	Fellow in Neurosurgery, Department of Neurological Surgery, University of Miami, Miami, Florida, USA
2004-2005	Chief Resident in Neurosurgery, Department of Neurological Surgery, University of Miami, Miami, Florida, USA
2001-2005	Resident in Neurosurgery, Department of Neurological Surgery, University of Miami, Miami, Florida, USA
2000-2001	Clinical Fellow in Cerebrovascular & Skull Base Surgery Department of Neurological Surgery, University of Miami, Miami, Florida, USA
1997- 2000	Clinical Fellow in Cerebrovascular & Skull Base Surgery Department of Neurosurgery, Louisiana State University, Shreveport, Louisiana, USA
1995-1997	Research Associate, Department of Neurological Surgery, University of Wisconsin, Madison, Wisconsin, USA
1994-1995	Postdoctoral Fellow, Division of Neurosurgery, Department of Surgery, University of Kentucky, Kentucky, USA
1993-1994	Cerebrovascular Fellow, Department of Neurosurgery, Nagoya University School of Medicine, Nagoya, Japan
1992-1994	Chief Resident, Department of Neurosurgery, Ankara University Faculty of Medicine, Ankara, Turkey

1987-1992 Resident, Department of Neurosurgery, Ankara University  
Faculty of Medicine, Ankara, Turkey

1981-1987 Faculty of Medicine, Ankara University, Ankara, Turkey

### **Licensure and Certification**

1987 Diploma of Medicine, Ministry of Health, Republic of  
Turkey

1994 Certification of Specialization in Neurosurgery, Ministry of  
Health, Republic of Turkey

1997 United States Medical Licence Examination (USMLE),  
ECFMG Certificate (# 0-551-943-4)

2000 Certification of Subspecialization Training in  
Cerebrovascular and Skull Base Surgery, Louisiana State  
University Medical Center

2001 Certification of Subspecialization Training in  
Cerebrovascular and Skull Base Surgery, University of  
Miami/Jackson Memorial Hospital

2005 Wisconsin State Medical License

2006 Florida State Medical License

2012 Certified, Diplomate of American Board of Neurological  
Surgery

### **Honors and Awards**

1993 Professor Kenichiro Sugita Scholarship

1994 University of Kentucky Post-doctoral Scholarship

1999 Physician's Recognition Award by American Medical  
Association

2002	Young Promising Neurosurgeon Award (Prof. H.Z. Gokalp Award) by Turkish Neurosurgical Society
2004	Best Resident Presentation Award in 4 <sup>th</sup> Rosomof Research Day, University of Miami
2007	Resident Teaching Award, Department of Neurological Surgery, University of Wisconsin
2011	Honorary Member of Turkish Society of Anatomy & Clinical Anatomy
2014	Vitals Compassionate Doctor Award
2015	Alpha Omega Alpha Honor Medical Society
2016	Patients's Choice Award "One of the Best Wisconsin's Favorite Physicians by Vitals
2018	Provider Champion Award (UW Patient & Family Experience in achieving highest level of communication, compassion and engagement).
2019	Resident Teaching Award, Department of Neurological Surgery, University of Wisconsin

### **Research Grants**

Co-investigator	<i>"Phosphatidylcholine Regulation in Stroke"</i> NIH/NINDS RO1 Grant (competing renewal, funded, 2007-2012, PI: Dr. RM Adibhatla)
Consultant	<i>"The Role of Prefrontal Cortex in Emotion Regulation"</i> Principal Investigator: Michael Koenig, NIH R01 (granted)
Co-investigator	<i>"Regulation of stromal derived factor-1 mediated angiogenesis in ischemic brain."</i> (NIH National Institute of Neurological Disorders & Stroke (Hypertension and Microcirculation Study Section) RO3 grant, funded, PI: Uma Wesley, PhD)

### **Clinical Research and Trials**

Principal Investigator      *Randomized, double-blind, placebo controlled, multicenter, parallel groups confirmatory efficacy and safety trial of activated recombinant factor VII (NovoSeven/Niastase) in acute intracerebral hemorrhage (F7ICH-1641)*

**National and International Leadership and Service**

2010 - 2016	World Federation of Neurosurgical Societies Skull Base Committee
2012 - present	AANS/CNS Joint section of Cerebrovascular Surgery Executive Committee
2012 - present	AANS/CNS Joint section of Cerebrovascular Surgery, Chair/ Cerebrovascular Research Award
2013 - 2015	Congress of Neurological Surgeons Executive Committee
2014 - 2015	Chair, International Division, Congress of Neurological Surgeons
2015 - 2017	Member, Education Division, Congress of Neurological Surgeons
2015 - 2016	Member, 2016 North American Skull Base Society Annual Meeting Planning Committee
2015 - 2017	Member, International Division, Congress of Neurological Surgeons
2015 - 2016	Member, Congress of Neurological Surgeons Annual Meeting Planning Committee
2015 - present	World Federation of Neurosurgical Societies Cerebrovascular Surgery Committee
2017	Co-chair (Neurosurgery) of Scientific Program, North American Skull Base Society 2017 Annual Meeting

2021 Nominating Committee, World Federation of Neurosurgical Societies,

### **Memberships**

1987- present Turkish Association of Medical Doctors

1994-1997 Society for Neuroscience

1996-2000 The International Society of Cerebral Blood Flow and Metabolism

2000- present Turkish Neurosurgical Society

2001- present American Association of Neurological Surgeons

2001- present North American Skull Base Society

2003- present Congress of Neurological Surgeons

2010- present World Federation of Neurosurgical Societies

2014- present The Society of University Neurosurgeons

2016 - present Society of Neurological Surgeons

2016 - present American Academy of Neurological Surgeons

2018 - present European Association of Neurosurgical Societies

2018 - present Executive Committee Member of International Conference on Cerebrovascular Surgery

### **Editorial Responsibilities**

1998 - 1999 Ad Hoc reviewer, Neurosurgical Focus

2000 - present Editorial Board Member of *Annals of Neurosurgery* (*Electronic Journal, www.annals-neurosurgery.org*)

2002 – 2014 Associate Editor of *Neuroanatomy* (*www.neuroanatomy.org*)

2009 – present	Editorial Board Member of Anatomy (International Journal of Experimental & Clinical Anatomy)
2010 – present	Editorial Board Member of ISNR Neurology
2007 - present	Ad Hoc reviewer, Neuroscience Letters
2007	Ad Hoc reviewer, Journal of Case Reports
2009	Ad Hoc reviewer, Clinical Medicine and Research
2009	Ad Hoc reviewer, Clinical Neurology and Neurosurgery
2009- present	Ad Hoc reviewer, Clinical Anatomy
2010-	Ad Hoc reviewer, Surgical Neurology International
2009- present	Ad Hoc reviewer, Neurocritical Care
2010- 2015	Ad Hoc reviewer, Journal of Cerebral Blood Flow & Metabolism
2010	Ad Hoc reviewer, Anatomy Research International
2011- present	Ad Hoc reviewer, Neurosurgery
2011	Ad Hoc reviewer, Life Sciences
2011- present	Advisory Board Member, Journal of Experimental & Clinical Medicine
2011- present	Ad Hoc reviewer, Central European Neurosurgery
2011- present	Editorial Board Member, Surgical Neurology International
2012 - present	Ad Hoc reviewer, Journal of Neurology, Neurosurgery & Psychiatry
2012- present	Editorial Board member, Turkish Neurosurgery
2013- present	Ad Hoc reviewer, Anatomical Science International
2013- present	Editorial Board member, Contemporary Neurosurgery
2013	Ad Hoc reviewer, BMC Surgery

2014	Ad Hoc reviewer, Neurosurgical Review
2016 – present	Associate Section Editor of Skull Base, Operative Neurosurgery
2017 -	Guest Editor, Neurosurgical Focus, Surgical Videos for Skull Base Meningiomas.
2017 -	Editorial Board Member, Skull Base: Operative Videos
2020 -	Guest Topic Editor (Lead) , Neurosurgical Focus, Surgical Videos for Posterior Fossa AVMs.

### **Service Activities & Committee Appointments**

2014- present	Faculty mentoring committee, Dr. Azam S. Ahmed, Dept. of Neurological Surgery
2016- present	Chair of faculty mentoring committee, Dr. Wendell Lake, Dept. of Neurological Surgery
2020 - present	Member, Tenure Track Professor Promotion Committee, University of Wisconsin Medical School

### **Abstract Grading for International Meetings**

Abstracts on subarachnoid hemorrhage and management. International Stroke Conference February 18-20, 2009. San Diego, California.

Abstracts on cerebrovascular sessions. XIV World Congress of Neurological Surgery of the World Federation of Neurosurgical Societies, Boston, USA. August 30-September 4, 2009.

Abstracts on subarachnoid hemorrhage and management. International Stroke Conference February 24-26, 2010. San Antonio, Texas.

Abstracts on subarachnoid hemorrhage and management. International Stroke Conference February 9-11, 2011. Los Angeles, California.

Abstracts on cerebrovascular and skull base surgery. European Association of Neurological Surgeons 2015 Annual Meeting.



Abstracts for 2016 Annual Meeting of North American Skull Base Society

Abstracts for 2017 Annual Meeting of North American Skull Base Society

### **National and International Education & Teaching**

**Invited Faculty**, *Standard Approach, Orbitozygomatic and Posterior Petrosectomy Approaches*, Pre-meeting Courses, 17<sup>th</sup> Annual Meeting of North American Skull Base Society, Phoenix, AZ, February 16, 2006

**Director**, Microsurgical Approaches Annual Resident Training Course in the Skull Base and Neuroanatomy, University of Wisconsin, Madison, WI, January 2006-July 2006

**Director**, Correlative Neuroanatomy and Neuroscience, Antero-lateral Skull Base Resident Training Course, University of Wisconsin, Madison, WI, January 2007-July 2007

**Visiting Professor**, University of Ankara, Medical Faculty, Department of Neurosurgery, January 6-10, 2007

**Guest Speaker**, 21st Turkish Neurosurgical Society Scientific Congress Antalya, Turkey, April 20-24, 2007

**Director**, Posterior Skull Base and Cerebral Angiography, Resident Training Course, University of Wisconsin, Madison, WI, July 2007-October, 2007

**Director**, Lateral Skull Base and Cranial Nerves, Resident Training Course, University of Wisconsin, Madison, WI, November, 2007-February, 2008

**Invited Faculty and Speaker**, *Post-auricular Transtemporal Approaches-Neurosurgical Perspective*, Pre-meeting Hands-on Cadaveric Dissection Course, 19<sup>th</sup> Annual Meeting of North American Skull Base Society, Vancouver, Canada, September 10th, 2008

**Instructor**, Skull Base Approaches, Pre-meeting Course, 19<sup>th</sup> Annual Meeting of North American Skull Base Society, Vancouver, Canada, September 10th, 2008

**Director**, Intracranial Aneurysms: Microsurgical Anatomy and Treatment. Resident Training Course, University of Wisconsin, Madison, WI, February 2008-January 2009.

**Director**, The First Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison and Medical College of Wisconsin, Milwaukee. Madison, Wisconsin February 7, 2009.

**Director & Instructor,** Neuroanatomy and Cadaveric Dissection Course for Neuroscience Interest Group of Medical Students of University of Wisconsin Medical School. March 10, 2009, Madison, Wisconsin.

**Director,** Microsurgical and Functional Anatomy of the Brain Stem and Spinal Cord. Resident Training Course, University of Wisconsin, Madison, WI. February 2009-July 2009.

**Moderator,** Oral Papers in Cerebrovascular Session on August 31, 2009. XIV World Congress of Neurological Surgery of the World Federation of Neurosurgical Societies, Boston, USA. August 30-September 4, 2009.

**Invited Faculty and Panelist,** Breakfast Sessions. Diagnosis and Management of Vascular Lesions in the Severe Trauma Patient: Dissections, Pseudoaneurysms and Vasospasm. XIV World Congress of Neurological Surgery of the World Federation of Neurosurgical Societies, Boston, USA. August 30-September 4, 2009.

**Invited Faculty and Speaker,** *Supra- and Infra-tentorial Microsurgical and Endoscopic Approaches to Lesions in the Ventricles, Intratentorial and Supratentorial Regions.* Turkish Neurosurgical Society Microsurgical Neuroanatomy Annual Course. Istanbul University, Cerrahpasa School of Medicine, Istanbul, Turkey. September 24-25, 2009.

**Invited Faculty and Speaker,** *Post-auricular Transtemporal Combined Approaches-Neurosurgical Perspective,* Pre-meeting Hands-on Cadaveric Dissection Course, 20<sup>th</sup> Annual Meeting of North American Skull Base Society, New Orleans, October 15<sup>th</sup>, 2009

**Director,** The Second Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee and University of Minnesota. Madison, Wisconsin. April 10, 2010.

**Director,** Microsurgical Anatomy of the Middle Cranial Base and Temporal Bone, Postero-lateral Skull Base Approaches and Treatment of Cerebral AVMs. Resident Training Course, University of Wisconsin, Madison, WI. August 2009- June, 2010.

**Director & Instructor,** Neuroanatomy and Cadaveric Dissection Course for Medical Students of University of Illinois Champaign-Urbana. May 24-26, 2010, Madison, Wisconsin.

**Director & Instructor,** Neuroanatomy and Cadaveric Dissection Course for Medical Students of University of Illinois Champaign-Urbana. July 12-16, 2010, Madison, Wisconsin.

**Faculty,** Society of Neurological Surgeons, Neurosurgical Boot Camp for PGY1 Neurosurgery Residents. Chicago, Illinois, July 23-24, 2010.

**Guest Faculty and Speaker,** Open and Endoscopic Endonasal Skull Base Surgery: A Hands on Cadaver Workshop for Neurosurgeons. Oregon Health and Science University, Portland, Oregon, September 25-26, 2010.

**Director & Instructor,** Neuroanatomy and Cadaveric Dissection Course for Neuroscience Interest Group of Medical Students of University of Wisconsin Medical School. October 22, 2010, Madison, Wisconsin.

**Director,** Microsurgical Anatomy of the Posterior Fossa and Posterior Skull Base and Cerebrovascular Occlusive Diseases. Resident Training Course, University of Wisconsin, Madison, WI. July 2010- January, 2011.

**Invited Faculty and Speaker,** *Post-auricular Transtemporal Combined Approaches-Neurosurgical Perspective*, Pre-meeting Hands-on Cadaveric Dissection Course, 22<sup>st</sup> Annual Meeting of North American Skull Base Society, Phoenix, AZ, February 17th, 2011

**Director,** The Third Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee and University of Minnesota. Madison, Wisconsin. May 14, 2011.

**Visiting Professor,** Uludag University, School of Medicine, Department of Neurosurgery, Bursa, Turkey. May 20-21, 2011.

**Director,** Surgical Anatomy of the Ventricles, Temporal Lobe and Surgical Treatment of Epilepsy. Resident Training Course, University of Wisconsin, Madison, WI. February 2011- August 18, 2011.

**Faculty,** Society of Neurological Surgeons, Neurosurgical Boot Camp “Fundamental Skills Course” for PGY1 Neurosurgery Residents. Chicago, Illinois, July 8-9, 2011.

**Director & Instructor,** Neuroanatomy and Cadaveric Dissection Course for Medical Students of University of Illinois Champaign-Urbana. July 25-27, 2011, Madison, Wisconsin.

**Director,** Basics of Neurosurgery, anterior skull base, neuro-exam and neuro-endoscopy. Resident Training Course, University of Wisconsin, Madison, WI. August 25, 2011- February 23, 2012.

**Invited Faculty and Speaker,** *Post-auricular Transtemporal Combined Approaches-Neurosurgical Perspective*, Pre-meeting Hands-on Cadaveric Dissection Course, 23<sup>rd</sup> Annual Meeting of North American Skull Base Society, Las Vegas, Nevada, February 16th, 2012

**Director,** Approaches to middle fossa and petroclival region. Resident Training Course, University of Wisconsin, Madison, WI. March 15, 2012- August 16, 2012.

**Director**, The Fourth Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee and University of Minnesota. Madison, Wisconsin. May 12, 2012.

**Faculty**, Society of Neurological Surgeons, Neurosurgical Boot Camp “Fundamental Skills Course” for PGY1 Neurosurgery Residents. Chicago, Illinois, July 8-9, 2012.

**Director & Instructor**, Neuroanatomy and Cadaveric Dissection Course for Medical Students of University of Illinois Champaign-Urbana. July 13, 2012, Madison, Wisconsin.

**Director & Instructor**, Cadaveric Dissection Course for Otolaryngology residents, University of Wisconsin, Madison, Wisconsin. September 19, 2012

**Director & Instructor**, “Hands-On” Microneurosurgical Dissection: Drilling, Suturing, Reviewing Neuro-Anatomy in Perfused Cadaver Heads.” Neuroscience Interest Group, UW School of Medicine and Public Health, Madison, WI October 26, 2012

**Moderator**, Video/Abstract Presentations on November 7, 2012. The 8<sup>th</sup> International Congress on Meningiomas and Cerebral Venous System (ICOMCVS) and the 3<sup>rd</sup> International Symposium on the Cavernous Sinus (ISOCS), Little Rock, Arkansas, November 4-7, 2012

**Invited Faculty and Panelist**, Luncheon Seminar on November 5, 2012. Sphenoclinoidal Meningiomas. The 8<sup>th</sup> International Congress on Meningiomas and Cerebral Venous System (ICOMCVS) and the 3<sup>rd</sup> International Symposium on the Cavernous Sinus (ISOCS), Little Rock, Arkansas, November 4-7, 2012

**Invited Faculty, Moderator and Panelist**, Breakfast Seminar on November 6, 2012. Cavernous Malformations. The 8<sup>th</sup> International Congress on Meningiomas and Cerebral Venous System (ICOMCVS) and the 3<sup>rd</sup> International Symposium on the Cavernous Sinus (ISOCS), Little Rock, Arkansas, November 4-7, 2012

**Invited Faculty and Speaker**, *Post-auricular Transtemporal Combined Approaches-Neurosurgical Perspective*, Pre-meeting Hands-on Cadaveric Dissection Course, 24<sup>th</sup> Annual Meeting of North American Skull Base Society, Miami, FL, February 14th, 2013

**Visiting Professor**, Katip Celebi University, Izmir, Department of Neurosurgery, February 22, 2013

**Invited Faculty and Speaker**, “Nuts and bolts of posterior fossa surgery: How I do it. Practical Clinic. The 81<sup>st</sup> Annual Meeting of American Association of Neurological Surgeons. New Orleans, La April 27, 2013.

**Director,** The Fifth Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota and Rush University. Mequon, Wisconsin. May 14, 2013.

**Invited Faculty, Speaker and Commentator on Live Surgeries,** The 13<sup>th</sup> Helsinki Live Demonstration Course in Operative Microneurosurgery. Helsinki, Finland, June 2-6, 2013.

**Faculty,** Society of Neurological Surgeons, Neurosurgical Boot Camp “Fundamental Skills Course” for PGY1 Neurosurgery Residents. Chicago, Illinois, July 8-9, 2013.

**Director,** The Sixth Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University and Loyola University. Madison, Wisconsin. May 2, 2014.

**Director,** Neuroanatomy and Cadaveric Dissection Course for Medical Students of University of Illinois Champaign-Urbana. June 9, 2014, Madison, Wisconsin.

**Faculty,** Society of Neurological Surgeons, Neurosurgical Boot Camp “Fundamental Skills Course” for PGY1 Neurosurgery Residents. Chicago, Illinois, July 11-12, 2014.

**Invited Faculty and Panelist,** Practical Course on October 19, 2014. “Surgical management of Tumors in Eloquent Regions”. Congress of Neurological Surgeons Annual Meeting. Boston, Massachusetts. October 18-22, 2014

**Moderator,** 3D NEUROSURGERY: Techniques to Advance Safety and Efficacy in Micro-neurosurgery. Congress of Neurological Surgeons Annual Meeting. Boston, Massachusetts. October 18-22, 2014

**Moderator,** 2D NEUROSURGERY: Intraoperative Complications Avoidance and Management. Congress of Neurological Surgeons Annual Meeting. Boston, Massachusetts. October 18-22, 2014

**Co-director,** The First Microvascular Surgery Course for residents of Neurosurgery, Plastic Surgery and Otolaryngology at University of Wisconsin-Madison. Madison, Wisconsin. November 15, 2014.

**Faculty,** Resection of Acoustic Neuromas: Part I. Translabyrinthine approach. AANS Operative Grand Rounds. WEBINAR. 2015

**Faculty,** Resection of Acoustic Neuromas: Part II. Retrosigmoid and Middle Fossa Approaches. AANS Operative Grand Rounds. WEBINAR. 2015

**Moderator,** “Management of Challenging Aneurysms” Breakfast session. North American Skull Base Society, 25<sup>th</sup> Annual Meeting, Tampa, FL. February 21, 2015

**Invited Faculty**, 4th Annual Advanced Open and Endoscopic Techniques in Complex Skull Base Surgery, Homer Stryker Center, Mahwah, NJ March 21-22, 2015

**Director**, Neuroanatomy “Hands-On” Dissection & Introduction to Neurosurgery, “Surface and Vascular Anatomy of Brain” and “Vascular Anatomy; Hands on example of Drilling, Suturing and work under the microscope”. Neuroscience Interest Group-UW Madison, WI. April 9, 2015

**Invited Faculty**, International Basic Neurosurgery Course. The 4<sup>th</sup> Term. Vascular Neurosurgery. Belek-Antalya, Turkey. April 14-17, 2015

**Director**, Vascular Hands-on Simulation Course. International Basic Neurosurgery Course. The 4<sup>th</sup> Term. Vascular Neurosurgery. Belek-Antalya, Turkey. April 15-16, 2015

**Director**, Vascular Hands-on Simulation Course. 29<sup>th</sup> Turkish Neurosurgical Society Scientific Meeting – Pre-meeting Practical Course. Belek-Antalya, Turkey. April 17, 2015

**Invited Faculty and Speaker**, How to Tackle Difficult Cranial cases. A step-by-step 3D Case-based Presentation. Practical Clinic. The 83<sup>rd</sup> Annual Meeting of American Association of Neurological Surgeons. Washington DC, May 4, 2015.

**Director**, “*Microsurgery Reunion (Case Studies)*”. University of Wisconsin, Madison, WI May 15, 2015

**Director**, The Seventh Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University, University of Illinois-Chicago and Loyola University. Madison, Wisconsin. May 16, 2015.

**Faculty**, Society of Neurological Surgeons, Neurosurgical Boot Camp “Fundamental Skills Course” for PGY1 Neurosurgery Residents. Chicago, Illinois, July 10-11, 2015.

**Invited Faculty and Panelist**, Practical Course on September , 2015. “Surgical management of Tumors in Eloquent Regions”. Congress of Neurological Surgeons Annual Meeting. New Orleans, La. September 27, 2015

**Moderator**, 3D NEUROSURGERY: Techniques to Advance Safety and Efficacy in Micro-neurosurgery. Congress of Neurological Surgeons Annual Meeting. New Orleans, La. September 28, 2015

**Moderator and Presenter**, 3D NEUROSURGERY: A tribute to Yasargil: Global Microsurgery in 3D. Congress of Neurological Surgeons Annual Meeting. New Orleans, La. September 29, 2015

**Moderator**, General Scientific Session III, Congress of Neurological Surgeons Annual Meeting. New Orleans, La. September 29, 2015

**Co-director**, The Second Annual Microvascular Surgery Course for residents of Neurosurgery, Plastic Surgery and Otolaryngology at University of Wisconsin-Madison. Madison, Wisconsin. November 14, 2015.

**Faculty and Panelist**, “Panel Discussion: Management of Vascular Issues in Skull Base Surgery”. 26<sup>th</sup> Annual North American Skull Base Society Meeting. Scottsdale, AZ, February 12-14, 2016.

**Invited Faculty**. Joint Meeting of the 12<sup>th</sup> International Conference of Cerebrovascular Surgery and 1<sup>st</sup> Interim Meeting of Asian Australasian Society Neurological Surgeons. February 26-28, 2017. Mumbai, India.

**Faculty**, Second Annual Course for Microscopic and Endoscopic Approaches to Central Skull Base. University Of Colorado School of Medicine Center for Innovations. March 3-6, 2016. Aurora, CO.

**Invited Faculty and Speaker**, 3D Anatomy and Approaches to the Supratentorial Area and Skull Base. . The 84th Annual Meeting of American Association of Neurological Surgeons. Chicago, Illinois, April 30-May 4, 2016.

**Director**, “*Microsurgery Reunion (Case Studies)*”. University of Wisconsin, Madison, WI May 13, 2016

**Director**, The Eighth Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University, University of Illinois-Chicago and Loyola University. Madison, Wisconsin. May 14, 2016.

**Faculty**, Society of Neurological Surgeons, Neurosurgical Boot Camp “Fundamental Skills Course” for PGY1 Neurosurgery Residents. Chicago, Illinois, July 8-9, 2016.

**Director**, Introduction to Neurosurgery, Hands-on Dissection Course for High School Students, Madison, Wisconsin, July 14, 2016

**Faculty**, CNS 3D Anatomy Course for Senior Residents. Houston, TX. August 18-21, 2016.

**Faculty**, “*Surgical Neuroanatomy II (Infratentorial)*.” Practical Course PC28, CNS 2016 Annual Meeting, San Diego, California, September 24-28, 2016

**Faculty**, “Intra-dural Spine Tumor Surgery” Senior Resident Course: Technical Foundations in Neurosurgery, CNS 2016 Annual Meeting, San Diego, California September 24-28, 2016

**Faculty**, Complex Skull Base and Brain Tumor Surgery: 3D Surgical Anatomy and Technical Nuances. Practical Course, CNS 2016 Annual Meeting, San Diego, California, September 24-28, 2016

**Faculty**, “*How To Safely Operate: In, Through, and Around the Cavernous Sinus: Hands-On Cadaver Workshop with Live Surgery and Life-Like Simulation*”, Arkansas Neuroscience Institute, Little Rock, Arkansas October 22-25, 2016.

**Co-director**, The Third Annual Microvascular Surgery Course for residents of Neurosurgery, Plastic Surgery and Otolaryngology at University of Wisconsin-Madison. Madison, Wisconsin. November 5, 2016.

**Faculty**, Tenth Annual Microscopic/Endoscopic Skull Base Surgery Course. Allegheny General Hospital, Department of Neurosurgery, Pittsburgh, PA. November 10, 2016

**Visiting Professor**, Department Neurosurgery, Temple University School of Medicine, Philadelphia, PA. December 15-16, 2016.

**Scientific Program Co-Chair**, the 27<sup>th</sup> Annual Meeting of North American Skull Base Society, March 3-5, 2017. New Orleans, Louisiana, USA.

**Moderator**, General Scientific Session. The 27<sup>th</sup> Annual Meeting of North American Skull Base Society, March 5, 2017. New Orleans, Louisiana, USA.

**Panelist**, “Master Video Session 1: Microvascular anastomosis, bypass and vascular repair. The 27<sup>th</sup> Annual Meeting of North American Skull Base Society, March 3-5, 2017. New Orleans, Louisiana, USA.

**Panelist**, “Main Topic Session 7: Petroclival meningiomas: Philosophy, techniques and results. The 27<sup>th</sup> Annual Meeting of North American Skull Base Society, March 3-5, 2017. New Orleans, Louisiana, USA.

**Panelist**, “Expert Debate Session 9: Vascular considerations in skull base surgery: Arteries (preserve, sacrifice or bypass), veins and preoperative tumor embolization. The 27<sup>th</sup> Annual Meeting of North American Skull Base Society, March 3-5, 2017. New Orleans, Louisiana, USA.

**Faculty**, Third Annual Course for Microscopic and Endoscopic Approaches to Central Skull Base. University Of Colorado School of Medicine Center for Innovations. March 13-17, 2017. Aurora, CO.

**Moderator**, International Symposium. Cerebrovascular Session. 2017 AANS Annual Scientific Meeting Los Angeles, CA April 25, 2017



**Panelist**, Breakfast Seminar 106. Anticoagulation for the Neurosurgeon and Hemostasis in Neurosurgery, 2017 AANS Annual Scientific Meeting Los Angeles, CA April 24, 2017

**Panelist**, Breakfast Seminar 208. Endovascular vs. Microsurgical Techniques for the Optimal Treatment of Intracranial Aneurysms, 2017 AANS Annual Scientific Meeting Los Angeles, CA April 25, 2017

**Director**, “*Microsurgery Reunion (Case Studies)*”. University of Wisconsin, Madison, WI May 5, 2017

**Director**, The Ninth Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University, University of Illinois-Chicago and Loyola University. Madison, Wisconsin. May 6, 2017.

**Moderator**. Tumor Session. International Symposium of Neurosurgery and Spine Surgery in the 9<sup>th</sup> Annual Meeting of Bosnia-Herzegovina American Academy of Science and Art. May 27, 2017. Teslic, Bosnia-Herzegovina.

**Visiting Professor**. “*The 27<sup>th</sup> Annual George Ehni Lectureship and Workshop*”. Baylor College of Medicine. June 8-10, 2017. Houston, Texas.

**Guest Director**. The 27<sup>th</sup> Annual George Ehni Cadaveric Anatomy Workshop. 1) Orbito-zygomatic Skull Base Approach and Unlocking the Cavernous Sinus & 2) Far-lateral Transcondylar Skull Base Approach. Baylor College of Medicine. June 10, 2017. Houston, Texas.

**Faculty**, Society of Neurological Surgeons, Neurosurgical Boot Camp “Fundamental Skills Course” for PGY1 Neurosurgery Residents. Chicago, Illinois, July 7-8, 2017.

**Faculty and Panelist**. Main Topic Session: “Cerebrovascular Bypass”. World Federation of Neurosurgical Societies, XVI World Congress of Neurosurgery, August 20-25, 2017 Istanbul, Turkey

**Moderator**. Plenary Session. M. Gazi Yasargil 50 Years in Microneurosurgery. World Federation of Neurosurgical Societies, XVI World Congress of Neurosurgery, August 20-25, 2017, Istanbul, Turkey

**Moderator and Faculty**. Breakfast Seminars: Giant Aneurysms. World Federation of Neurosurgical Societies, XVI World Congress of Neurosurgery, August 20-25, 2017 Istanbul, Turkey

**Faculty**. 3D Video Presentations World Federation of Neurosurgical Societies, XVI World Congress of Neurosurgery, August 20-25, 2017, Istanbul, Turkey

**Moderator**, Vascular Abstract Session. 79<sup>th</sup> Annual Scientific Meeting of the American Academy of Neurological Surgery. September 13-16, 2017. Santa Barbara, CA.

**Chair**. Symposium 2 Forefront of Acute Ischemic Stroke Treatment in Japan 13<sup>th</sup> ICVS Conference. Nagoya, Japan. October 28, 2017.

**Chair and Speaker**. Session 4: Extra Cranial – Intracranial Bypass (USA experience). 13<sup>th</sup> ICVS Conference Nagoya Japan. Nagoya, Japan October 28, 2017.

**Chair and Speaker**. Session 14: Surgical Anatomy of Complex Vascular Lesions. 13<sup>th</sup> ICVS Conference. Nagoya Japan, October 29 2017.

**Faculty**, “*How To Safely Operate: In, Through, and Around the Cavernous Sinus: Hands-On Cadaver Workshop with Live Surgery and Life-Like Simulation*”, Arkansas Neuroscience Institute, Little Rock, Arkansas October 12-15, 2017.

**Presenter**. Importance of Anatomy in the Treatment of So-called Inoperable Brain Tumors. Clinical Perspectives in Neurosurgery Webinar Series of UW Health. WEBINAR. 2017.

**Faculty, Laboratory: Hands-On Dissection Classes**. Allegheny General Hospital – 11<sup>th</sup> Annual Microscopic/Endoscopic Skull Base Surgery Course and Vascular Bypass Lab, Pittsburgh, Pennsylvania November 15-18, 2017

**Moderator, Anterior Cranial Fossa: Complication Avoidance and Case Presentations**. Lunch Seminar 2.5 Hours Series Presentations. Allegheny General Hospital – 11<sup>th</sup> Annual Microscopic/Endoscopic Skull Base Surgery Course and Vascular Bypass Lab, Pittsburgh, Pennsylvania November 15-18, 2017

**Presenter, Posterior Circulations Aneurysms/Complications and Avoidance**, Allegheny General Hospital – 11<sup>th</sup> Annual Microscopic/Endoscopic Skull Base Surgery Course and Vascular Bypass Lab, Pittsburgh, Pennsylvania November 15-18, 2017

**Faculty**, The Fourth Annual Course for Microscopic and Endoscopic Approaches to Central Skull Base. University of Colorado School of Medicine Center for Innovations. Aurora, CO March 14-17, 2018

**Invited Faculty**, 1<sup>st</sup> Rhoton Society Meeting, & the International Symposium on Microneurosurgical Anatomy (ISMA). Tianjin, China July 1, 2018

**Invited Faculty**, International Endoscopic and Skull Base Surgery Conference — Lake Forum “*Surgical Video Session: Intrinsic Tumor*” The 7<sup>th</sup> International Symposium on Microneurosurgical Anatomy. ‘1<sup>st</sup> Rhoton Society Meeting. Tianjin, China July 1, 2018

**Faculty**, SNS Bootcamp. Rosemont IL July 13-14, 2018

**Invited Faculty**, ICCVS, IMS, Prague Neurosurgical Week 2018. Prague, Czech August 30, 2018

**Director**, First Midwest Microsurgery and Microvascular Anastomosis Course. University of Wisconsin. Madison, WI September 8, 2018.

**Speaker**, Cerebrovascular and Skull Base Symposium at the Brigham and Women's Hospital. Boston, Massachusetts September 22, 2018

**Speaker**, Congress of Neurological Surgeons. Houston, Texas October 6, 2018

**Faculty**, Endovascular and Vascular Techniques Course for Senior Residents. MERI Lab, Memphis, Tennessee October 12, 2018

**Invited Faculty and Speaker**, EANS Training Course. Dubrovnik, Croatia October 16, 2018

**Director**, Department of Neurological Surgery, "*Neuroanatomy "Hands-On" Dissection & Introduction to Neurosurgery*" Neuroscience Interest Group-UW Madison, UW School of Medicine & Public Health, Madison, WI. November 5, 2018

**Speaker**, Turkish Neurosurgical Society, Neuro-Oncology, Vascular, and Surgical Anatomy Group Annual Symposium. Istanbul, Turkey November 23- 25, 2018

**Invited Faculty and Speaker**, Spetzler Microneurosurgery Course: Posterior Approaches, Anatomy & Techniques, Barrow Neurological Institute. Phoenix, Arizona January 10-11, 2019

**Visiting Professor**, University of Washington 7<sup>th</sup> annual course. Seattle, WA January 24-27, 2019

**Faculty and Speaker**, 29<sup>th</sup> Annual North American Skull Base Society Meeting. Orlando, FL, February 15-17, 2019.

**Visiting Professor**, Mayo Clinic, Rochester, Minnesota, February 27 and 28, 2019.

**Moderator**, The Evandro de Oliveira Symposium. Mastery and Legacy in Neuroanatomy and the Surgery of Cerebrovascular Lesions, Complex Brain Tumors and Epilepsy, 2019 AANS Annual Scientific Meeting San Diego, CA; April 11, 2019.

**Panelist**, Breakfast Seminar 116. Anticoagulation for the Neurosurgeon and Hemostasis in Neurosurgery, 2019 AANS Annual Scientific Meeting Los Angeles, CA; April 15, 2019.

**Visiting Professor**, University of West Virginia. Pittsburgh, PA; April 18-19, 2019.

**Director**, “Microsurgery Reunion (Case Studies)”. University of Wisconsin, Madison, WI May 3, 2019

**Director**, The Eleventh Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University, University of Illinois-Chicago and Loyola University. Madison, Wisconsin. May 4, 2019.

**Faculty and Speaker**. Arkansas Neuroscience Institute Grand Opening Symposium, Little Rock, Arkansas June 15-16, 2019.

**Faculty**, Society of Neurological Surgeons, Neurosurgical Boot Camp “Fundamentals of Neurosurgery Course” for PGY1 Neurosurgery Residents. Chicago, Illinois, July 19-20, 2019.

**Guest Faculty and Speaker**, Evandro de Oliveira Cavernous Sinus Course, Little Rock, Arkansas August 24-27, 2019.

**Faculty and Speaker**, Inaugural Carle Illinois Microsurgery and Endoscopic Hands-On Course, University of Illinois, Urbana-Champaign, IL, August 30-31, 2019.

**Invited Faculty and Speaker**, Neuroanatomy and Cadaveric Dissection Course for Medical Students of University of Illinois Champaign-Urbana, Urbana-Champaign, IL, August 30, 2019.

**Director**, Second Annual Midwest Microsurgery and Microvascular Anastomosis Course. University of Wisconsin. Madison, WI September 14, 2019.

**Speaker**, the 81<sup>st</sup> Annual Meeting of the American Academy of Neurological Surgery, Rome, Italy, September 18- 21, 2019.

**Speaker**, The European Association of Neurosurgical Societies, TECHNOLOGY, TECHNIQUES, TRAINING AND TRANSPARENCY, Dublin, Ireland, September 24-28, 2019.

**Speaker**, 5<sup>th</sup> Cerebrovascular and Skull Base Symposium at the Brigham and Women’s Hospital. Boston, Massachusetts October 5, 2019

**Faculty and Speaker**, Brain Tumor Update: Benign Brain Tumors Symposia, Congress of Neurological Surgery (CNS), San Francisco, CA October 19-23, 2019.

**Director**, Department of Neurological Surgery, “*Neuroanatomy “Hands-On” Dissection & Introduction to Neurosurgery*” Neuroscience Interest Group-Madison, UW School of Medicine & Public Health, Madison, WI. October 15, 2019

**Faculty and Speaker**, 3D Surgical Neuroanatomy Symposia, Congress of Neurological Surgery (CNS), San Francisco, CA October 19-23, 2019.

**Speaker**, Adult Advisory Council Meeting, Madison, WI, October 22, 2019

**Speaker**, Bellin Hospital, Talk to Neurologist group, Green Bay, WI, November 5, 2019

**Speaker**, UW-Neurosurgery Grand Rounds, Madison, WI, November 6, 2019

**Speaker**, Emergency Provider Meeting, , Dubuque, IA, November 20, 2019

**Invited Guest**, 28th Annual meeting of Henan Province Neurosurgical Societies, Zhengzhou, China, December 13-15, 2019

**Speaker**, Bypass 2020 Anniversary Symposium, Semi-centennial of Brain Bypass Symposium, University Hospital Zurich, Switzerland, January 8-10, 2020

**Faculty and Speaker** “Special Session 6: Hearing and Cranial Nerve Rehabilitation in Acoustic Neuroma Surgery”, **Panelist** “Expert Debate 6: Hearing and Cranial Nerve Rehabilitation in Acoustic Neuromas”, **Moderator** “Video Session 4: Petroclival Meningiomas Surgery”, **Abstract Moderator**, NASBS 30th Annual Meeting, San Antonio, Texas, February 7-9, 2020

**Faculty and Speaker**, AVM Surgery, UW-Neurosurgery Professor Rounds, Madison, WI, March 27, 2020

**Faculty and Speaker**, Microsurgery in the new era: Complex skull base tumors. Curso Internacional de Neurocirugía Vascular y Endovascular CINVAE 2020, Mexico Webinar. April 23, 2020

**Faculty and Speaker**, The Role of Microanastomosis and Bypass in Endovascular Era: Where are we standing? Neurosurgical.TV, Neurosurgery Coach and Asian Medical Students & Residents Society of Neurosurgery (AMSRS) Webinar. April 25, 2020

**Faculty and Speaker**, The Role of Microanastomosis and Bypass in Endovascular Era; The Role of Bypass Surgery in the Endovascular Era. Gazi University Webinar. April 25, 2020

**Faculty and Speaker**, Anterior, Middle Third Ventricular & Thalamic Tumors, UW-Neurosurgery Professor Rounds, Madison, WI, April 28, 2020

**Faculty and Speaker**, Operating on So-called Inoperable Brain Tumors: Role of Neuroanatomy, Neurosurgical.TV, Neurosurgery Coach and Asian Medical Students & Residents Society of Neurosurgery (AMSRS) Webinar. May 9, 2020

**Faculty and Speaker**, Microsurgery of Arteriovenous Malformations: Technical Nuances, Neurosurgical.TV, Neurosurgery Coach and Asian Medical Students & Residents Society of Neurosurgery (AMSRS) Webinar. May 23, 2020

**Faculty and Speaker**, Is Micro-neurosurgery dying? Microsurgery versus ultra-microsurgery, UW-Neurosurgery Professor Rounds, Madison, WI, May 27, 2020

**Moderator**, Surgery for Arteriovenous Malformations. Master Symposium Webinars and International Society of Craniovertebral Junction and Spine. May 28, 2020

**Director**, Microsurgery Resurgence Webinars, July 11, 2020

**Faculty and Speaker**, Preoperative AVM embolization: It is almost never needed, University of Miami Neurosurgical Cerebrovascular and Skull Base Programs Webinars, July 23, 2020

**Faculty and Speaker**, Surgical Treatment of Arteriovenous Malformations: Microsurgical Technique and Nuances, The Neurosurgical Atlas by Dr. Aaron Cohen-Gadol Webinar, July 27, 2020

**Faculty and Speaker**, Translabrythine Approach for Optimizing Facial Nerve Outcome in Vestibular Schwannomas, Pakistan Neurosurgery Society Webinar, August 5, 2020

**Visiting Professor**, Role of Neuro-anatomy in Surgical treatment of Complex Intracranial Pathologies, University of Oklahoma Virtual Grand Rounds, August 7, 2020

**Director**, Microsurgery Resurgence Webinars, August 8, 2020

**Faculty, Speaker**, Anatomy and Surgery of Anterior Cerebral Artery Aneurysms, Cerebrovascular Samurais, 2<sup>nd</sup> Rhoton Society Virtual Meeting & 8th International Zoomposium on Microneurosurgical Anatomy, September 11, 2020

**Faculty, Speaker and Moderator**, A Journey of One Thousand Miles in Cerebral Bypass— From Laboratory Training to Complex Vascular and Neoplastic Cases, Bypass Surgery: To boldly go..., 2<sup>nd</sup> Rhoton Society Virtual Meeting & 8th International Zoomposium on Microneurosurgical Anatomy, September 12, 2020

**Invited Lecturer**, Role of Neuroanatomy on Skull Base Surgery. Ministry of Health, Republic of Uzbekistan, Samarkand State Medical Institute. Webinar, September 12, 2020

**Faculty and Panelist**, The Inseparable Twins: Cerebrovascular and Skull Base Surgery, 2<sup>nd</sup> Rhoton Society Virtual Meeting & 8th International Zoomposium on Microneurosurgical Anatomy, September 19, 2020

**Speaker**, Anatomy, Techniques and Career Planning in Neurosurgery, Mayo Clinic-Circle of Willis, September 24, 2020

**Speaker,** Anterior Skull Base Meningiomas Classification and Microsurgical Techniques for Resection, Dakar International Webinar, October 10, 2020

**Speaker,** Don't fit into your own shell! Micro-surgery advice from forever assistant / fellow, İZMİR On-line Neurosurgery, October 17, 2020

**Speaker,** Open Surgery for Brain Metastasis, UW- Madison Inaugural Multidisciplinary CNS Metastasis Update, October 17, 2020

**Speaker,** Microsurgical Treatment of PICA and Vertebro-basilar Junction Aneurysms, Asian Congress of Neurological Surgeons (ACNS) Webinar, October 24, 2020

**Speaker,** Doing Complex Brain Surgeries with A-Team, Wisconsin State Assembly of Surgical Technologists (AST) Webinar, October 24, 2020

**Speaker,** Operating on So-called Inoperable Gliomas, UW-Neurosurgery Grand Rounds, Madison, WI, November 4, 2020

**Speaker,** Translabyrinthine approach for optimizing facial nerve outcome in vestibular schwannoma treatment, Neurosurgery Department, National Brain Center, Jakarta – Indonesia Webinar, November 7, 2020

**Speaker,** Posterior Petrosal Approach, Acibadem University, Online Skull Base Course - Masters with Turkish Rhoton Fellows, November 14, 2020

**Faculty, Panelist, and Speaker,** Orbitozygomatic Approaches to Middle Fossa and Cavernous Sinus, North American Skull Base Society (NASBS), Virtual Skull Base Workshop, November 18, 2020

**Visiting Professor,** Current State of Open Vascular Neurosurgery in Endovascular Era, Marmara University Medical School, Department of Neurosurgery Webinar, November 22, 2020

**Invited Faculty, Panelist, and Speaker,** Approach to Cerebral Aneurysms, WFNS Neurosurgical Anatomy Webinars, December 2, 2020

**Invited Faculty and Lecturer,** Is Neurosurgery Rocket Science? Daily Physics of Neurosurgery, Second International Congress of Neuroscience in Conjunction with AANS, ENMS, IPN, MSC & UNESCO; “The World of Neurosurgery in Your Fingertips” Webinar, December 19, 2020

**Director and Speaker,** Vestibular Schwannoma Surgery: Truth Told, Microsurgery Resurgence Webinars, December 19, 2020

**Speaker,** Complications avoidance and management in cerebrovascular surgery, Turkish Neurosurgery Association-Neurovascular Surgery Education and Training Group, January 16, 2021

**Moderator, Panelist, and Speaker,** To embolize or not to embolize: that is the question for arteriovenous malformations, The Journal of Neurosurgery; JNS Journal Club, Neurosurgical Focus- January 2021 Video; Posterior fossa arteriovenous malformations, January 26, 2021

**Director and Speaker,** Microsurgical Management of Midbrain Gliomas: Truth Told, Microsurgery Resurgence Webinars, January 30, 2021

**Speaker,** Contemporary Neurosurgical Approach To Unruptured Intracranial Aneurysms, Nervous System Surgery; Vascular Neurosurgery Symposium, February 6, 2021

**Speaker,** Microsurgery Training in Neurosurgery: Practical Tips in the Laboratory and Operating Room, İZMİR On-line Neurosurgery, February 6, 2021

**Speaker,** Clippology with the Masters, Barrow Neurological Institute, February 16, 2021

**Speaker,** Posterior Circulation Aneurysms, 7th WFNS Foundation ACNS Winter WEB Seminar, February 20, 2021

**Director and Speaker,** Exact Clipping of Aneurysms and Reconstruction of Complex Aneurysms: Truth Told, Microsurgery Resurgence Webinars, February 27, 2021

**Speaker,** Microsurgical Technique and Nuances in Cerebral AVMs, UW-Neurology Grand Rounds, Madison, WI, March 3, 2021

**Speaker,** Surgical Treatment of Complex Aneurysms in Endovascular Era, WFNS Neurosurgical Anatomy 9th Webinar, March 23, 2021

**Speaker,** Microsurgical Technique and Nuances in Cerebral AVMs, Ain Shams University; Neurosurgery Webinar Series, April 10, 2021

**Moderator and Speaker,** Tricks in Microsurgical Treatment of Vestibular Schwannomas, International Basic Neurosurgery Course (IBNC) Webinar V; The Tricks of Microneurosurgery, April 17, 2021

**Speaker,** Training and Career Planning on Abroad, Ankara university, April 24, 2021

**Speaker,** Approaches to The Thalamic Gliomas: Pitfalls and Surgical Tricks, II. White Matter Dissection Course and Surgery of Gliomas, Acıbadem University, Masters with Turkish Rhoton Fellows Group, May 8, 2021



**Director and Speaker,** Pterional Approach, Orbitozygomatic Approach, Anterior Clinoidectomy, and Unlocking the Cavernous Sinus, The 13th Annual Wisconsin Skull Base Course, Session 1, May 15, 2021.

**Speaker,** Dealing with Vascular Encasement in Skull Base Surgery, University of Miami Cerebrovascular and Skull Base International Symposium, May 20, 2021.

**Director and Speaker,** Far Lateral Transcondylar Approach, The 13th Annual Wisconsin Skull Base Course, Session 2, May 29, 2021.

**Speaker,** Complication avoidance and management of cerebral aneurysms, Cerebrovascular Committee of WFNS; Webinar # 40: Cerebral Aneurysms & AVMs, June 4, 2021.

**Speaker,** Operating on So-Called Inoperable Gliomas, the Neurosurgical Atlas, June 7, 2021.

**Speaker,** Microneurosurgery training from lab to operating room: tips and advices, ACNS-YNS Monthly Education Webinar for YNS, June 13, 2021.

**Speaker,** Neurosurgery as a career goal, İZMİR On-line Neurosurgery, July 3, 2021.

**Director,** Professor Dr. Mahmut Gazi Yaşargil; Father of Microneurosurgery, The Impact of the Micro-surgery, Session 1, Truth Told, Microsurgery Resurgence Webinars, July 6, 2021.

### **Speaking Engagements and Invited Lectures**

*“Pathophysiology and Animal Models of Cerebral Ischemia”.* Invited Lecturer in the Department of Neurosurgery, University of Illinois at Chicago, November 27, 1996

*“Brain Protection During Cerebrovascular Surgery: Lessons Learned from Laboratory”.* Invited Lecturer in the Department of Neurosurgery, Sevgi Hospital, Ankara, Turkey, January 3, 1997

*“Complications and Intensive Care After Carotid Endarterectomy”.* Invited Lecturer in the Department of Neurosurgery, Sevgi Hospital, Ankara, Turkey, January 4, 1997

*“Pathophysiology and Management of Traumatic Brain Injury: Mini-Review”.* Invited lecturer in the Department of Neurosurgery, Ankara University School of Medicine, Ankara, Turkey, June 10, 1998

*“Surgical Anatomy and Surgical Treatment of the Aneurysms of the Supraclinoid Internal Carotid Artery”* Department of Neurological Surgery, University of Miami, Miami, Florida, August 23, 2001 (Grand Rounds)

*“Intracranial Dural Arteriovenous Fistulas”*. Invited Lecturer in the Department of Neurology Grand Rounds, University of Miami. October 21, 2005.

*“Two-piece Orbitozygomatic Approach”* North American Skull Base Society 17<sup>th</sup> Annual Meeting pre-Meeting Course. Phoenix, Arizona. February 16, 2006

*“Microsurgical Approaches to Intrinsic Brain Lesions Based on Neuroanatomy. Case Presentations”*. Invited Speaker in 6<sup>th</sup> Annual Rosomoff Research Day, University of Miami, Miami, FL, June 10, 2006.

*“Is there any no man land left in the brain and skull base? Microsurgical neuroanatomy based intracranial microsurgery for tumors involving the skull base and intrinsic brain regions”*. Invited speaker in A Seminar on the Neurosurgical Aspects of the Multidisciplinary Brain Tumor Program. University of Wisconsin, Madison, WI August 3, 2006

*“Introduction to Skull Base Surgery”* Invited speaker in American Association of Neuroscience Nurses, University of Wisconsin, Madison, WI, October 18, 2006

*“Microsurgical Treatment Strategies in Difficult Access Tumors Involving Skull Base and Intrinsic Brain Regions”* Invited speaker in Brain Tumor Support Group, University of Wisconsin Hospital and Clinics, Madison, WI, November 21, 2006

*“Importance of Neuroanatomy in Training for Microneurosurgery”*. Invited speaker in Resident Education Session in 21<sup>st</sup> Turkish Neurosurgical Society Scientific Congress, Antalya, Turkey, April 20-24, 2007.

*“The role of Microsurgery in Cerebrovascular Surgery in the Present and Future”*. Invited speaker in 21<sup>st</sup> Turkish Neurosurgical Society Scientific Congress, Antalya, Turkey, April 20-24, 2007.

*“Microneurosurgical Approaches to the Skull Base Based on Neuroanatomy: Is there any no man land left in the brain and skull base?”* Invited speaker in 21<sup>st</sup> Turkish Neurosurgical Society Scientific Congress, Antalya, Turkey, April 20-24, 2007.

*“Cerebrovascular Surgery Cases Video Presentation”*. Masters Video Session in 21<sup>st</sup> Turkish Neurosurgical Society Scientific Congress, Antalya, Turkey, April 20-24, 2007

*“Intracranial Tumor Cases Video Presentation”*. Masters Video Session in 21<sup>st</sup> Turkish Neurosurgical Society Scientific Congress, Antalya, Turkey, April 20-24, 2007.

*“Principals of Microneurosurgery”*. Department of Neurological Surgery Grand Rounds. University of Wisconsin, Madison, WI. December 12, 2007.

*“Surgical Strategies in Microneurosurgery: Lessons Learned”*. Invited Lecturer in 20<sup>th</sup> Prof. Nurhan Avman Lecture. Ankara University School of Medicine, Ankara Turkey, March 8, 2008.

*“Post-auricular Transtemporal Approaches-Neurosurgical Perspective”*, Pre-meeting Course, 19<sup>th</sup> Annual Meeting of North American Skull Base Society, Vancouver, Canada, September 10th, 2008

*“Orbitozygomatic Approach”*, Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin and Medical College of Wisconsin. Madison, Wisconsin February 7, 2009.

*“Combined Transtemporal Approaches”*, Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin and Medical College of Wisconsin. Madison, Wisconsin February 7, 2009.

*“Far-lateral Transcondylar Approach”*, Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin and Medical College of Wisconsin. Madison, Wisconsin February 7, 2009.

*“Introduction to Neuroanatomy based Microneurosurgery”* . Neuroscience Interest Group Presentation. University of Wisconsin , Medical School. March 10, 2009. Madison, Wisconsin.

*“Blood Blister-like Aneurysms of the Supraclinoid Internal Carotid Artery”*. Breakfast Sessions. Diagnosis and Management of Vascular Lesions in the Severe Trauma Patient: Dissections, Pseudoaneurysms and Vasospasm. XIV World Congress of Neurological Surgery of the World Federation of Neurosurgical Societies, Boston, USA. August 30-September 4, 2009.

*“Infratentorial Supracerebellar Transtentorial Approach to Posterior Medio-basal Temporal Region*. Video Session. XIV World Congress of Neurological Surgery of the World Federation of Neurosurgical Societies, Boston, USA. August 30-September 4, 2009.

*“Microsurgical Clipping of Giant Aneurysm of the Vertebral Artery via Far Lateral Transcondylar Approach Under Hypothermic Circulatory Arrest”* . Video Session. XIV World Congress of Neurological Surgery of the World Federation of Neurosurgical Societies, Boston, USA. August 30-September 4, 2009.

*“Pterional, One-piece and Two-piece Fronto-orbitozygomatic Craniotomies”* . Supra- and Infra-tentorial Microsurgical and Endoscopic Approaches to Lesions in the Ventricles, Intratentorial and Supratentorial Regions. Turkish Neurosurgical Society

Microsurgical Neuroanatomy Annual Course. Istanbul University, Cerrahpasa School of Medicine, Istanbul, Turkey. September 24, 2009.

*“Anterior Temporal Approaches. Subtemporal Approach, Middle Fossa Approach and Kawase’s Anterior (Medial) Petrosectomy”* . Supra- and Infra-tentorial Microsurgical and Endoscopic Approaches to Lesions in the Ventricles, Intratentorial and Supratentorial Regions. Turkish Neurosurgical Society Microsurgical Neuroanatomy Annual Course. Istanbul University, Cerrahpasa School of Medicine, Istanbul, Turkey. September 24, 2009.

*“Posterior Temporal Presigmoid Approaches. Retrolabyrinthine, Translabyrinthine and Transcochlear Modifications”* . Supra- and Infra-tentorial Microsurgical and Endoscopic Approaches to Lesions in the Ventricles, Intratentorial and Supratentorial Regions. Turkish Neurosurgical Society Microsurgical Neuroanatomy Annual Course. Istanbul University, Cerrahpasa School of Medicine, Istanbul, Turkey. September 24, 2009.

*“Microsurgical Approaches to the Pineal Region and Posterior Ambient Cistern”* . Supra- and Infra-tentorial Microsurgical and Endoscopic Approaches to Lesions in the Ventricles, Intratentorial and Supratentorial Regions. Turkish Neurosurgical Society Microsurgical Neuroanatomy Annual Course. Istanbul University, Cerrahpasa School of Medicine, Istanbul, Turkey. September 25, 2009.

*“Far Lateral Transcondylar Approach to the Cervico-medullary Junction”* . Supra- and Infra-tentorial Microsurgical and Endoscopic Approaches to Lesions in the Ventricles, Intratentorial and Supratentorial Regions. Turkish Neurosurgical Society Microsurgical Neuroanatomy Annual Course. Istanbul University, Cerrahpasa School of Medicine, Istanbul, Turkey. September 25, 2009.

*“Surgical Approaches to the 4<sup>th</sup> Ventricle and Cerebellopontine Angle”* . Supra- and Infra-tentorial Microsurgical and Endoscopic Approaches to Lesions in the Ventricles, Intratentorial and Supratentorial Regions. Turkish Neurosurgical Society Microsurgical Neuroanatomy Annual Course. Istanbul University, Cerrahpasa School of Medicine, Istanbul, Turkey. September 25, 2009.

*“Transcranial Approaches to the Prepontine Cistern- Pretemporal Transcavernous Approach”* . Supra- and Infra-tentorial Microsurgical and Endoscopic Approaches to Lesions in the Ventricles, Intratentorial and Supratentorial Regions. Turkish Neurosurgical Society Microsurgical Neuroanatomy Annual Course. Istanbul University, Cerrahpasa School of Medicine, Istanbul, Turkey. September 25, 2009.

*“Post-auricular Transtemporal Combined Approaches-Neurosurgical Perspective”*, Pre-meeting Course, 20<sup>th</sup> Annual Meeting of North American Skull Base Society, New Orleans, October 15th, 2009

*“Neuroprotective effects of mesenchymal stem cells derived from human embryonic stem cells in transient focal cerebral ischemia in rats”*. The American Academy of Neurological Surgery 71<sup>st</sup> Annual Meeting. Palm Beach, Florida. November 4-7, 2009.

*“Combined Transpetrosal Approaches”*. Department of Neurological Surgery Grand Rounds. University of Wisconsin, Madison, WI. December 23, 2009.

*“Human Embryonic Stem Cell Based Therapies in Focal Cerebral Ischemia”*. Society of University Neurosurgeons Annual Meeting. Miami, Florida March 20-24, 2010.

*“Pterional and Orbitozygomatic Craniotomies”*, Second Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee and University of Minnesota. Madison, Wisconsin April 10, 2010.

*“Case Presentations with Surgical Video Demonstrations”*, Second Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee and University of Minnesota. Madison, Wisconsin April 10, 2010.

*“Far-lateral Transcondylar Approach”*, Second Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee and University of Minnesota. Madison, Wisconsin April 10, 2010.

*“Advances in Skull Base Tumors”*. Brain Tumor Awareness Day. University of Wisconsin, Madison, WI. May 1, 2010.

*“Neuroanatomy Based Microsurgery for Brain Tumors”* . Brain Tumor Symposium. University of Wisconsin, Madison, September 17, 2010.

*“Neurovascular Surgical Video Case Presentations”*, Neurovascular Case Conference for Neurosurgery Residents. Oregon Health Science University, Department of Neurosurgery, Portland, Oregon, September 23, 2010.

*“Two-piece Orbitozygomatic Approach”*. Open and Endoscopic Endonasal Skull Base Surgery: A Hands on Cadaver Workshop for Neurosurgeons. Oregon Health and Science University, Portland, Oregon, September 25, 2010.

*“Neuroanatomy based Microneurosurgery”* . Neuroscience Interest Group Presentation. University of Wisconsin , Medical School. October 22, 2010. Madison, Wisconsin.

*“Impact of Neuroanatomy Education in Clinical Micro-neurosurgery”*. 13<sup>th</sup> National Congress of Anatomy with International Participation. October 28, 2010, Kyrenia, Cypress.

*“Challenging Cases in Intracranial Aneurysm Surgery: Surgical Video Demonstration for Neurosurgery Residents”*. Department of Neurosurgery, Ankara University, School of Medicine, Ankara, Turkey. November 3, 2010.

*“Skull Base Surgery”*. Invited Speaker at Gunderson Lutheran Hospital Noon Conference. November 19, 2010., La Crosse, WI.

*“Neuroanatomy based Intracranial Microsurgery”*. Invited Speaker at Mercy Hospital. March 23, 2011, Oshkosh, WI.

*“Memories of Last Sugita Fellow”*. Invited speaker. International Sugita Symposium. American Association of Neurological Surgeons Annual Meeting. Denver, Colorado, April 11, 2011.

*“Neuroanatomy- based Microneurosurgery”*. Invited Lecturer at University of Illinois College of Medicine at Urbana-Champaign, April 22, 2011, Urbana-Champaign, IL.

*“Pterional and Orbitozygomatic Craniotomies”*, Third Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee and University of Minnesota. Madison, Wisconsin May 14, 2011.

*“Surgical Video Demonstrations”*, Third Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee and University of Minnesota. Madison, Wisconsin May 14, 2011.

*“Far-lateral Transcondylar Approach”*, Third Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee and University of Minnesota. Madison, Wisconsin May 14, 2011.

*“Importance of Topographical Gross Neuroanatomy and Skull Base Anatomy Teaching in Training Neurosurgery Residents”*. Invited Lecture- Plenary Lecture. Joint Meeting of European Anatomical Societies. Bursa, Turkey. May 22, 2011.

*“Surgical Anatomy of Main Skull Base Approaches”*. Visiting Professor Lecture. Uludag University School of Medicine, Department of Neurosurgery. Bursa, Turkey May 20, 2011.

*“Microsurgical Treatment Principles of Intracranial Aneurysms”*. Visiting Professor Lecture. Uludag University School of Medicine, Department of Neurosurgery. Bursa, Turkey May 20, 2011.

*“Blood Blister-like Aneurysms of the Supraclinoid Internal Carotid Artery”*. Visiting Professor Lecture. Uludag University School of Medicine, Department of Neurosurgery. Bursa, Turkey May 20, 2011.

*“Neuroanatomical Basis of Microneurosurgery”*. Visiting Professor Lecture. Uludag University School of Medicine, Department of Neurosurgery. Bursa, Turkey May 21, 2011.

*“Cerebral AVMs: Natural History, Treatment Alternatives and Microneurosurgery”*. Visiting Professor Lecture. Uludag University School of Medicine, Department of Neurosurgery. Bursa, Turkey May 21, 2011.

*“Neuroanatomy-based Microneurosurgery”*. Society of University Neurosurgeons Annual Meeting. Athens, Istanbul and Izmir June 22-26, 2011.

*“Microsurgery for Insular Tumors”*. Grand Round Lecture. Department of Neurological Surgery. University of Wisconsin, July 20, 2011.

*“Microsurgical Treatment Principles of Anterior Circulation Aneurysms”*. Grand Round Lecture. Department of Neurological Surgery. University of Wisconsin, July 27, 2011.

*“Skull Base Surgery and Neuroanatomy based Microneurosurgery”* . Neuroscience Interest Group Presentation. University of Wisconsin , Medical School. November 29, 2011.

*“Neurosurgical Case Studies”*. In-service talk for operating room staff. University of Wisconsin Hospital. January 4, 2012.

*“Post-auricular Transtemporal Combined Approaches-Neurosurgical Perspective”*, Pre-meeting Course, 23rd Annual Meeting of North American Skull Base Society, Las Vegas, Nevada, February 16th, 2012

*“Microsurgical Treatment Principles of Anterior Communicating Artery Aneurysms”*. Invited Speaker. The 3<sup>rd</sup> Annual Winter Symposium. Uludag University. Uludag, Bursa, Turkey. March 1-4, 2012.

*“Techniques, Pitfalls and Challenges in Microsurgical Treatment of Complex, Large and Giant Intracranial Aneurysms”*. Invited Speaker. The 3<sup>rd</sup> Annual Winter Symposium. Uludag University. Uludag, Bursa, Turkey. March 1-4, 2012.

*“How reliable is indocyanine-green video angiography? University of Wisconsin experience in first 109 aneurysms.”*. Invited Speaker. The 3<sup>rd</sup> Annual Winter Symposium. Uludag University. Uludag, Bursa, Turkey. March 1-4, 2012.

*“Challenges in Treatment of Paraclinoid Aneurysms”*. Invited Speaker. The 3<sup>rd</sup> Annual Winter Symposium. Uludag University. Uludag, Bursa, Turkey. March 1-4, 2012.

*“Dealing with Intraoperative Rupture of Intracranial Aneurysms”*. Invited Speaker. The 3<sup>rd</sup> Annual Winter Symposium. Uludag University. Uludag, Bursa, Turkey. March 1-4, 2012.

*“Microsurgical Treatment Principles of Cerebral Vascular Malformations”*. Invited Speaker. The 3<sup>rd</sup> Annual Winter Symposium. Uludag University. Uludag, Bursa, Turkey. March 1-4, 2012.

*“Importance of Neuroanatomy in Intracranial Microneurosurgery”*. Invited Lecturer at University of Illinois College of Medicine at Urbana-Champaign, May 8, 2012, Urbana-Champaign, IL.

*“Orbitozygomatic Approach”*, The Fourth Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee and University of Minnesota. Madison, Wisconsin. May 12, 2012.

*“Luncheon Case and Video Demonstration”*, The Fourth Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee and University of Minnesota. Madison, Wisconsin May 12, 2012.

*“Far-lateral Transcondylar Approach”*, Fourth Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee and University of Minnesota. Madison, Wisconsin May 12, 2012.

*“Neuroanatomical Basis of Intracranial Microneurosurgery”*. The 12<sup>th</sup> Helsinki Live Course. University of Helsinki, Helsinki, Finland. June 3-5, 2012.

*“Neuroanatomical Basis for Microsurgical Treatment of Complex Intracranial Tumors”* . Tumor Board Conference. Riverview Hospital, Wisconsin Rapids, WI. June 27, 2012.

*“Aneurysms, Aneurysmal SAH– and Post-operative Care Expectations.”* Neuroscience Nursing Education Series, UWHC, Madison, WI August 28, 2012.

*“Microsurgical Treatment of Complex Intracranial Tumors”* . Endocrinology Conference. St. Elizabeth Hospital, Appleton, WI. September 27, 2012.

*“Neurosurgery is not a Rocket Science!”* CEO Leadership Conference for Health Care Leaders. University of Wisconsin School of Medicine and Public Health, Madison, WI October 12, 2012.

*“Presentation of Complex Neurosurgical Cases”* Neurology Conference St. Agnes Hospital, Fond du Lac, WI. October 24, 2012.

*“Importance of Neuro-anatomy in Neurosurgery.”* Neuroscience Interest Group, UW School of Medicine and Public Health, Madison, WI November 2, 2012.



*“Sphenoclinoidal meningiomas: Extradural clinoidectomy. Surgical anatomy, technique and tips”*. The 8<sup>th</sup> International Congress on Meningiomas and Cerebral Venous System (ICOMCVS) and the 3<sup>rd</sup> International Symposium on the Cavernous Sinus (ISOCS), Little Rock, Arkansas, November 4-7, 2012

*“Microsurgical treatment principles of intracranial aneurysms”*. Invited Lecturer in 5<sup>th</sup> Prof. Erdem Tuncbay Lecture. Ege University Faculty of Medicine, Izmir, Turkey, February 23, 2013.

*“Importance of neuroanatomy based microneurosurgery in surgical treatment of complex intracranial tumors”*. Invited Lecturer in 5<sup>th</sup> Prof. Erdem Tuncbay Lecture. Ege University Faculty of Medicine, Izmir, Turkey, February 23, 2013.

*“Microsurgical treatment of cerebral vascular malformations (AVMs and cavernomas)”*. Invited Lecturer in 5<sup>th</sup> Prof. Erdem Tuncbay Lecture. Ege University Faculty of Medicine, Izmir, Turkey, February 23, 2013.

*“Neurosurgery residency training in the USA”*. Invited Lecturer in 5<sup>th</sup> Prof. Erdem Tuncbay Lecture. Ege University Faculty of Medicine, Izmir, Turkey, February 23, 2013.

*“Surgical Anatomy and Approaches to Acoustic Neuromas. How I do it”* in Practical Clinic “Nuts and bolts of posterior fossa surgery: How I do it. The 81<sup>st</sup> Annual Meeting of American Association of Neurological Surgeons. New Orleans, La April 27, 2013.

*“Orbitozygomatic Approach”*, The Fifth Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota and Rush University. Mequon, Wisconsin. May 4, 2013.

*“Luncheon Case and Video Demonstration”*, The Fifth Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota and Rush University. Mequon, Wisconsin. May 4, 2013.

*“Far-lateral Transcondylar Approach”*, The Fifth Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota and Rush University. Mequon, Wisconsin. May 4, 2013.

*“Is Neurosurgery rocket science?”*. Invited Lecturer at University of Illinois College of Medicine at Urbana-Champaign, May 7, 2013, Urbana-Champaign, IL.

*“Neurosurgery is not rocket science! Importance of neuroanatomy in surgical treatment of complex intracranial lesions”* The 13<sup>th</sup> Helsinki Live Demonstration Course in Operative Microneurosurgery. Helsinki, Finland, June 2, 2013.

*“Surgical Treatment of Complex CNS Pathologies”* . Finley Hospital Tumor Board Conference. Dubuque, Iowa. October 2, 2013.

*“Microsurgical Treatment of Complex Intracranial Tumors”* . Aspirus Hospital Neuroscience Conference. Wausau, WI, November 1, 2013.

*“Beginning of Your Academic Career: Questions and Answers”*. The 82nd Annual Meeting of American Association of Neurological Surgeons. San Francisco April 6, 2014.

*“Orbitozygomatic Approach”*, The Sixth Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University and Loyola University. Madison, Wisconsin. May 2, 2014.

*“Extradural clinoidectomy”*, The Sixth Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University and Loyola University. Madison, Wisconsin. May 2, 2014.

*“Luncheon Case and Video Demonstration”*, The Sixth Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University and Loyola University. Madison, Wisconsin. May 2, 2014.

*“Retrosigmoid craniotomy”*, The Sixth Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University and Loyola University. Madison, Wisconsin. May 2, 2014.

*“Far-lateral Transcondylar Approach”*, The Sixth Annual Wisconsin Skull Base Course for Neurosurgery Resident at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University and Loyola University. Madison, Wisconsin. May 2, 2014.

*“Neuroanatomical Basis of Microsurgical Approaches to Lesions in Eloquent Brain Regions.”* The Society of University Neurosurgeons. The Annual Meeting. July 17-20, 2014, Seattle, WA.

*“Neuroanatomical Basis of Microsurgical Approaches to Lesions in Eloquent Brain Regions.”* Practical Course on October 19, 2014. “Surgical management of Tumors in Eloquent Regions”. Congress of Neurological Surgeons Annual Meeting. Boston, Massachusetts. October 18-22, 2014.

*“Introduction of CNS International Division”*. Congress of Neurological Surgeons Annual Meeting. Boston, Massachusetts. October 18-22, 2014.

*“Neuro-anatomy Based Microsurgery for Treatment of Complex Intracranial Lesions”*. Bellin Hospital Tumor Board. Green Bay, Wisconsin. October 28, 2014.

*“End-to-Side Bypass Using Superficial Temporal Artery or Radial Artery in Extracranial to Intracranial Bypass”*. The First Microvascular Surgery Course for residents of Neurosurgery, Plastic Surgery and Otolaryngology at University of Wisconsin-Madison. Madison, Wisconsin. November 15, 2014.

*“Orbitozygomatic Approach, Anterior Clinoidectomy and Exposure of Cavernous Sinus”* 4th Annual Advanced Open and Endoscopic Techniques in Complex Skull Base Surgery, Homer Stryker Center, Mahwah, NJ March 21, 2015

*“Complex Skull Base and Cerebrovascular – Complications Session”* 4th Annual Advanced Open and Endoscopic Techniques in Complex Skull Base Surgery, Homer Stryker Center, Mahwah, NJ March 21, 2015

*“Neurosurgery is not rocket science!”*. Invited Lecturer at University of Illinois College of Medicine at Urbana-Champaign, March 31, 2015, Urbana-Champaign, IL.

*“Basic surgical principles in aneurysm surgery (craniotomy, sylvian fissure dissection & temporary clipping)”*. International Basic Neurosurgery Course. The 4<sup>th</sup> Term. Vascular Neurosurgery. Belek-Antalya, Turkey. April 15, 2015

*“Posterior circulation aneurysms”*. International Basic Neurosurgery Course. The 4<sup>th</sup> Term. Vascular Neurosurgery. Belek-Antalya, Turkey. April 16, 2015

*“Giant aneurysms, fusiform and dissecting aneurysms”*. International Basic Neurosurgery Course. The 4<sup>th</sup> Term. Vascular Neurosurgery. Belek-Antalya, Turkey. April 16, 2015

*“Extracranial-intracranial bypass surgery”*. International Basic Neurosurgery Course. The 4<sup>th</sup> Term. Vascular Neurosurgery. Belek-Antalya, Turkey. April 17, 2015

*“Neurosurgery Residency Training in the USA”*. 29<sup>th</sup> Turkish Neurosurgical Scientific Annual Meeting. Belek-Antalya, Turkey April 18, 2015

*“Neuroanatomical Basis For Microsurgical Treatment of Complex Lesions in Eloquent Brain Regions.”* 29<sup>th</sup> Turkish Neurosurgical Scientific Annual Meeting. Belek-Antalya, Turkey April 19, 2015

*“3D Video presentation of clipping of a giant pericallosal aneurysm and thalamic cavernous angioma resection”* in Practical Clinic “How to Tackle Difficult Cranial cases. A step-by-step 3D Case-based Presentation”. The 83<sup>rd</sup> Annual Meeting of American Association of Neurological Surgeons. Washington DC, May 4, 2015.

*“Beginning of Your Academic Career: Questions and Answers”*. The 83<sup>rd</sup> Annual Meeting of American Association of Neurological Surgeons. Washington DC, May 4, 2015.

*“Orbitozygomatic Approach and Extradural Anterior Craniotomy”*, The Seventh Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University, University of Illinois-Chicago and Loyola University. Madison, Wisconsin. May 16, 2015.

*“Luncheon Case and Video Demonstration”*, The Seventh Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University, University of Illinois-Chicago and Loyola University. Madison, Wisconsin. May 16, 2015.

*“Far Lateral Transcondylar Approach”*, The Seventh Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University, University of Illinois-Chicago and Loyola University. Madison, Wisconsin. May 16, 2015.

*“Neuroanatomical Basis of Microsurgical Approaches to Lesions in Eloquent Brain Regions.”* Practical Course on September 27, 2015. “Surgical management of Tumors in Eloquent Regions”. Congress of Neurological Surgeons Annual Meeting. Boston, Massachusetts. September 26-30, 2015.

*“Is aneurysm surgery rocket science? Importance of anatomy in treatment of complex aneurysms”*. Invited Speaker. European Association of Neurological Surgeons Annual Meeting. Madrid, Spain. October 18-21, 2015.

*“Microvascular Anastomosis: Neurosurgical Perspective”*. The Second Annual Microvascular Surgery Course for residents of Neurosurgery, Plastic Surgery and Otolaryngology at University of Wisconsin-Madison. Madison, Wisconsin. November 14, 2015.

*“Microsurgical treatment of so-called inoperable tumors.”* Divine Savior Hospital, Oncology Board, Portage, WI. November 23, 2015.

*“Role of anatomy in treatment of neoplastic and vascular lesions”*. Turkish Neurosurgical Society Neuroanatomy and Neurovascular Sections Joint Symposium. Ankara, Turkey. December 26-27, 2015.

*“Posterior approaches to the pineal region, tentorial incisura and posterior III<sup>rd</sup> ventricle.”* Turkish Neurosurgical Society Neuroanatomy and Neurovascular Sections Joint Symposium. Ankara, Turkey. December 26-27, 2015.

*“Role of Microsurgery in Treatment of Cerebral Arteriovenous Malformations.”* Turkish Neurosurgical Society Neuroanatomy and Neurovascular Sections Joint Symposium. Ankara, Turkey. December 26-27, 2015.

*“Surgical Video Presentations of Complex Vascular Lesions”.* Turkish Neurosurgical Society Neuroanatomy and Neurovascular Sections Joint Symposium. Ankara, Turkey. December 26-27, 2015.

*“Dealing with Cerebral Issues in Daily Practice: Micro-suturing”.* North American Skull Base Society 26<sup>th</sup> Annual Meeting. Scottsdale, AZ, February 12-14, 2016.

*“3D Video Presentations of 1) Large hypervascular acoustic neuroma, 2) Supracerebellar approach for resection of large tentorial meningioma, 3) STA-M4 bypass with radial artery interposition graft for revascularization, 4) Microsurgical treatment of superior petrosal DAVF”* in Plenary Session, 3D Video Techniques in Skull Base Surgery. North American Skull Base Society 26<sup>th</sup> Annual Meeting. Scottsdale, AZ, February 12-14, 2016.

*“Importance of Neuroanatomy for Treatment of Complex Vascular Lesions”.* Joint Meeting of the 12<sup>th</sup> International Conference of Cerebrovascular Surgery and 1<sup>st</sup> Interim Meeting of Asian Australasian Society Neurological Surgeons. February 26-28, 2016. Mumbai, India.

*“Dealing with Vascular Complications”.* Joint Meeting of the 12<sup>th</sup> International Conference of Cerebrovascular Surgery and 1<sup>st</sup> Interim Meeting of Asian Australasian Society Neurological Surgeons. February 26-28, 2016. Mumbai, India.

*“Far-lateral Transcondylar Approach”.* Second Annual Course for Microscopic and Endoscopic Approaches to Central Skull Base. University Of Colorado School of Medicine, Center for Innovations. March 3-6, 2016. Aurora, CO.

*“3D Video Presentation of Translabyrinthine approach for resection of large acoustic neuroma and Giant Pericallosal Aneurysm”.* Second Annual Course for Microscopic and Endoscopic Approaches to Central Skull Base. University of Colorado School of Medicine, Center for Innovations. March 3-6, 2016. Aurora, CO.

*“Vascular Complications of Cranial Microsurgery”* Second Annual Course for Microscopic and Endoscopic Approaches to Central Skull Base. University of Colorado School of Medicine, Center for Innovations. March 3-6, 2016. Aurora, CO.

*“Complex Vascular Cases in 3D”.* 3D Anatomy and Approaches to the Supratentorial Area and Skull Base. The 84<sup>th</sup> Annual Meeting of American Association of Neurological Surgeons. Chicago, Illinois, April 30-May 4, 2016.

*“Resection of Complex and so-called Inoperable Brain Tumors”.* Tumor Board Conference. Mercy Hospital, Janesville, WI, May 10, 2016.

*“Surgical Treatment of Complex and So-called Inoperable Neoplastic or Vascular Lesions”*. Neuology Associates Dinner Meeting. Stevens Point, WI, May 11, 2016.

*“Microsurgical Treatment of So-called Inoperable Brain Lesions”*. Founders Day University of Wisconsin Alumni Antigo Chapter, Antigo, WI, May 13, 2016.

*“Orbitozygomatic Approach and Extradural Anterior Clinoidectomy”*, The Eighth Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, University of Illinois-Chicago and Loyola University. Madison, Wisconsin. May 14, 2016.

*“Luncheon Case and Video Demonstration”*, The Eighth Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University, University of Illinois-Chicago and Loyola University. Madison, Wisconsin. May 14, 2016.

*“Far Lateral Transcondylar Approach”*, The Eighth Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University, University of Illinois-Chicago and Loyola University. Madison, Wisconsin. May 14, 2016.

*“Anterior Interhemispheric Approaches to the Lateral Ventricle Tumors”*. CNS 3D Anatomy Course for Senior Residents. Houston, TX. August 18-21, 2016.

*“Microsurgical Treatment of Posterior Inferior Cerebellar Artery Aneurysms”*. Surgical Neuroanatomy II (Infratentorial). Practical Course PC28, CNS 2016 Annual Meeting, San Diego, California, September 24-28, 2016

*“Intra-dural Spine Tumor Surgery”* Senior Resident Course: Technical Foundations in Neurosurgery, CNS 2016 Annual Meeting, San Diego, California. September 24-28, 2016

*“3D Video Presentation of Transsylvian Resection of Dominant Insular Glioma, Anterior Transcallosal Resection of Thalamic Astrocytoma, Translab Resection of 4 cm Vestibular Schwannoma, Transsigmoid Resection of Jugular Foramen Paraganglioma”*. Complex Skull Base and Brain Tumor Surgery: 3D Surgical Anatomy and Technical Nuances. Practical Course, CNS 2016 Annual Meeting, San Diego, California, September 24-28, 2016

*“Importance of Neuroanatomy of Surgical Treatment of So-called Inoperable Brain Tumors”* Grand Rounds, Marshfield Clinic Neurology and Neurosurgery, Marshfield, WI. September 9, 2016

*“Microvascular Anostomosis: Neursurgical Perspective”*. The Third Annual Microvascular Surgery Course for residents of Neurosurgery, Plastic Surgery and Otolaryngology at University of Wisconsin-Madison. Madison, Wisconsin. November 5, 2016.

*“Transcondylar Approach: Step by Step”* Tenth Annual Microscopic/Endoscopic Skull Base Surgery Course. Allegheny General Hospital, Dept. of Neurosurgery, Pittsburgh, PA. November 10, 2016

*“Posterior Circulations Aneurysms/complications and Avoidance”* Posterior Fossa Case Presentations/Complications Avoidance, Tenth Annual Microscopic/Endoscopic Skull Base Surgery Course. Allegheny General Hospital, Dept. of Neurosurgery, Pittsburgh, PA. November 10, 2016

*“Importance of Neuroanatomy in Surgical Treatment of so-called Inoperable Brain Tumors”*. Neurosurgery & Neurology Grand Rounds. Temple University School of Medicine, Philadelphia, PA. December 16, 2016.

*“Microvascular repair of vascular injuries and challenging bypass cases”*. “Master Video Session 1: Microvascular anastomosis, bypass and vascular repair. The 27<sup>th</sup> Annual Meeting of North American Skull Base Society, March 3-5, 2017. New Orleans, Louisiana, USA.

*“Role of microsurgical neuro-anatomy in selection of approach to complex petroclival meningiomas”*. “Main Topic Session 7: Petroclival meningiomas:Philosophy, techniques and results. The 27<sup>th</sup> Annual Meeting of North American Skull Base Society, March 3-5, 2017. New Orleans, Louisiana, USA.

*“3D Video Presentation of Bonnet Bypass for Carotid Occlusion and Resection of Large Chondrosarcoma through Combined Dolenc and Kawase Approaches.”* Third Annual Course for Microscopic and Endoscopic Approaches to Central Skull Base. University of Colorado School of Medicine, Center for Innovations. March 13-17, 2017. Aurora, CO.

*“Far-lateral Transcondylar Approach”*. Third Annual Course for Microscopic and Endoscopic Approaches to Central Skull Base. University of Colorado School of Medicine, Center for Innovations. March 13-17, 2017. Aurora, CO.

*“Complications Session”* Third Annual Course for Microscopic and Endoscopic Approaches to Central Skull Base. University of Colorado School of Medicine, Center for Innovations. March 13-17, 2017. Aurora, CO.

*“Microsurgical Techniques for Hemostasis”*. Breakfast Seminar 106. Anticoagulation for the Neurosurgeon and Hemostasis in Neurosurgery, 2017 AANS Annual Scientific Meeting Los Angeles, CA April 24, 2017

*“Microsurgery for Giant and Large Aneurysms: From Simple to Most Complex”*. Breakfast Seminar 208. Endovascular vs. Microsurgical Techniques for the Optimal Treatment of Intracranial Aneurysms, 2017 AANS Annual Scientific Meeting Los Angeles, CA April 25, 2017

*“Surgery for Complex Vascular lesions in Endovascular Era”*. Spanish Neurosurgical Society Annual Meeting with The Society of British Neurological Surgeons. May 17-20, 2017. Barcelona, Spain.

**Key Note Speaker.** *“Role of topographical anatomy in treatment of so-called inoperable brain tumors”*. International Symposium of Neurosurgery and Spine Surgery in the 9<sup>th</sup> Annual Meeting of Bosnia-Herzegovina American Academy of Science and Art. May 27, 2017. Teslic, Bosnia-Herzegovina.

*“Role of Neuroanatomy in Treatment of Complex Vascular Lesions”*. International Symposium of Neurosurgery and Spine Surgery in the 9<sup>th</sup> Annual Meeting of Bosnia-Herzegovina American Academy of Science and Art. May 27, 2017. Teslic, Bosnia-Herzegovina.

**Invited Lecturer.** *“Is Neurosurgery Really Rocket Science? Use of Topographical Anatomy in Treatment of so-called Inoperable Brain Tumors”*. Houston Neurological Society Annual Meeting. June 8, 2017, Houston, Texas.

*“Does Microsurgery Still Have a Role in Treatment of Complex Vascular Lesions in Endovascular Era?”*. Visiting Professor Grand Rounds. Baylor College of Medicine. June 9, 2017. Houston, Texas.

*“Is gross total resection of so-called inoperable brain tumors possible?”* Finley Tumor Board, Dubuque, IA June 28, 2017.

*Extracranial to Intracranial Bypass in Cases with Limited Bypass Conduit Options: Pushing the Envelope Further*, World Federation of Neurosurgical Societies, XVI World Congress of Neurosurgery, August 20-25, 2017 Istanbul, Turkey.

*“Role of Anatomy in Selecting Surgical Treatment for Giant and Large Aneurysms: From Complex to Most Complex”*. World Federation of Neurosurgical Societies, XVI World Congress of Neurosurgery, August 20-25, 2017 Istanbul, Turkey.

*“Cerebrovascular Bypass in Challenging Cases With Limited Alternatives”* 13<sup>th</sup> ICCVS Conference Nagoya Japan. October 27 to October 29, 2017. Session 4 Extra cranial – Intracranial bypass (USA experience). Nagoya, Japan October 28, 2017.

*Role of Anatomy in Surgical Management of Complex AVMs*. Session 14 Surgical Anatomy of Complex Vascular Lesion. 13<sup>th</sup> ICCVS Conference. Nagoya Japan, October 29 2017.



*“Trigeminal Schwannomas: Surgical Treatment”*. How To Safely Operate: In, Through, and Around the Cavernous Sinus: Hands-On Cadaver Workshop with Live Surgery and Life-Like Simulation. Arkansas Neuroscience Institute, Little Rock, Arkansas October 12-15, 2017.

*Transcondylar Approach: Step By Step*. Allegheny General Hospital – 11<sup>th</sup> Annual Microscopic/Endoscopic Skull Base Surgery Course and Vascular Bypass Lab, Pittsburgh, Pennsylvania November 15-18, 2017

*“Far-lateral Transcondylar Approach”*. The Fourth Annual Course for Microscopic and Endoscopic Approaches to Central Skull Base. University of Colorado School of Medicine, Center for Innovations. March 14-17, 2018. Aurora, CO.

*“Bonnet Bypass for Cerebral Sschemia: 3D”* and *“Translab approach for Resection of 4 cm Hypervascular Acoustic Neuroma: 3D”*. Operative Video Session. The Fourth Annual Course for Microscopic and Endoscopic Approaches to Central Skull Base. University of Colorado School of Medicine, Center for Innovations. March 16, 2018. Aurora, CO.

*“Microsurgical Treatment of Blister-like Aneurysm with Prophylactic Bypass and Clip Reconstruction”* and *“Microsurgery for Resection of Dominant Superior Temporal Gyrus AVM”*. 3D Operative Video Session. The Fourth Annual Course for Microscopic and Endoscopic Approaches to Central Skull Base. University of Colorado School of Medicine, Center for Innovations. March 17, 2018. Aurora, CO.

*“ Surgical Anatomy for Cerebrovascular Surgery”* and *“ Importance of Anatomy in Surgical treatment of Complex Intracranial Aneurysms and AVMs”*. 1<sup>st</sup> Rhoton Society Meeting, &the International Symposium on Microneurosurgical Anatomy (ISMA). July 1, 2018. Tianjin, China.

*“Surgical Video Session: Intrinsic Tumor”*. International Endoscopic and Skull Base Surgery Conference — Lake Forum. The 7th International Symposium on Microneurosurgical Anatomy. ‘1st Rhoton Society Meeting. July 1, 2018. Tianjin, China

*“Bonet bypass for ischemia”*. International Endoscopic and Skull Base Surgery Conference — Lake Forum. The 7th International Symposium on Microneurosurgical Anatomy. ‘1st Rhoton Society Meeting. July 1, 2018. Tianjin, China

*“Importance of anatomy in surgical resection of so-called inoperable tumors”*. International Endoscopic and Skull Base Surgery Conference — Lake Forum. The 7th International Symposium on Microneurosurgical Anatomy. ‘1st Rhoton Society Meeting. July 1, 2018. Tianjin, China

*“ICCVS 1: Aneurysms, Role of neuro-anatomy in surgical management of complex intracranial aneurysms”*. ICCVS, IMS, Prague Neurosurgical Week. August 30, 2018. Prague, Czech.

*“ICCVS Role of anatomy in selecting approach to petroclival meningioma”*. ICCVS, IMS, Prague Neurosurgical Week. September 1, 2018. Prague, Czech.

*“Vascular issues in skull base lesions”*. ICCVS, IMS, Prague Neurosurgical Week. September 1, 2018. Prague, Czech.

*“Challenges in approaching supra-parasellar tumors. Case by case discussions”*. ICCVS, IMS, Prague Neurosurgical Week. September 1, 2018. Prague, Czech.

*“First Midwest Microsurgery and Microvascular Anastomosis Course”*. University of Wisconsin. September 8, 2018. Madison, WI

*“Decision Making—Bypass for Ischemia / Moya Moya”* Cerebrovascular and Skull Base Symposium at the Brigham and Women’s Hospital. September 22, 2018 . Boston, Massachusetts

*“How to Operate—ACOM Aneurysm Open and Endovascular Techniques”* and video presentation. *“ACOM aneurysm open surgery.”* Cerebrovascular and Skull Base Symposium at the Brigham and Women’s Hospital. September 22, 2018 . Boston, Massachusetts

*“Intraoperative Complication Management Aneurysm rupture during repair”*. Cerebrovascular and Skull Base Symposium at the Brigham and Women’s Hospital. September 22, 2018 . Boston, Massachusetts

*“How Do We Operate? Technical Pearls for Achieving the Goal.” “ACOM Aneurysm Open Techniques and Endo Techniques”* Cerebrovascular and Skull Base Symposium at the Brigham and Women’s Hospital. September 22, 2018 . Boston, Massachusetts

*“Practical Course PC09-3D Surgical Neuroanatomy (Supratentorial)”*. Congress of Neurological Surgeons. October 6, 2018. Houston, Texas

*“Animal Labs/Virtual Simulators/Flow Models”* Endovascular and Vascular Techniques Course for Senior Residents. MERI Lab. October 12, 2018. Memphis, Tennessee

*“Posterior Circulation Aneurysm Surgery”* Endovascular and Vascular Techniques Course for Senior Residents. MERI Lab. October 12, 2018. Memphis, Tennessee

*“Choice of approach to the anterior fossa”* Discussion, Group Leader, Session I. EANS Training Course. October 16, 2018. Dubrovnik, Croatia

*“Chordoma/chondrosarcoma”* EANS Training Course. October 16, 2018. Dubrovnik, Croatia

*“Neuroanatomy “Hands-On” Dissection & Introduction to Neurosurgery”* Neuroscience Interest Group-UW Madison, UW School of Medicine & Public Health, November 5, 2018. Madison, WI

*“Anterior, Middle Third Ventricular & Thalamic Tumors”* Turkish Neurosurgical Society, Neuro-Oncology, Vascular, and Surgical Anatomy Group Annual Symposium. November 23- 25, 2018. Istanbul, Turkey

*“Surgical Approaches to Fourth Ventricular and Paraventricular Lesion”* Turkish Neurosurgical Society, Neuro-Oncology, Vascular, and Surgical Anatomy Group Annual Symposium. November 23- 25, 2018. Istanbul, Turkey

*“Microsurgical resection of so-called inoperable tumors involving mesencephalon, pineal region and posterior 3<sup>rd</sup> ventricle”* Turkish Neurosurgical Society, Neuro-Oncology, Vascular, and Surgical Anatomy Group Annual Symposium. November 23- 25, 2018. Istanbul, Turkey

*“Midline falcotentorial meningiomas: Gross total resection versus subtotal resection?”* Turkish Neurosurgical Society, Neuro-Oncology, Vascular, and Surgical Anatomy Group Annual Symposium. November 23- 25, 2018. Istanbul, Turkey

*“Challenging Bypass Cases”* Turkish Neurosurgical Society, Neuro-Oncology, Vascular, and Surgical Anatomy Group Annual Symposium. November 23- 25, 2018. Istanbul, Turkey

*“Midline Callosal and Limbic System AVMs”* Turkish Neurosurgical Society, Neuro-Oncology, Vascular, and Surgical Anatomy Group Annual Symposium. November 23- 25, 2018. Istanbul, Turkey

*“Posterior Circulation Aneurysms”* Turkish Neurosurgical Society, Neuro-Oncology, Vascular, and Surgical Anatomy Group Annual Symposium. November 23- 25, 2018. Istanbul, Turkey

*“Far Lateral approach, Clinical Applications”* Spetzler Microneurosurgery Course: Posterior Approaches, Anatomy & Techniques, Barrow Neurological Institute. January 10-11, 2019. Phoenix, Arizona

*“Posterior Interhemispheric, Interhemispheric Approaches”* Spetzler Microneurosurgery Course: Posterior Approaches, Anatomy & Techniques, Barrow Neurological Institute. January 10-11, 2019. Phoenix, Arizona

*“The role of Microanastomosis Bypass in the endovascular era”.* University of Washington 7<sup>th</sup> annual course. January 24-27, 2019. Seattle, WA

*“Avoidance and Management of Vascular Injuries”*. Main Topic 9: Avoidance of Complication in Skull Base Surgery, 29<sup>th</sup> Annual North American Skull Base Society Meeting. February 15-17, 2019, Orlando, FL.

*“Rhoton Room: Open Posterior Skull Base and Jugular Foramen, Transcervical; Far-lateral transcondylar live cadavric dueling dissection”*. 29<sup>th</sup> Annual North American Skull Base Society Meeting. February 15-17, 2019, Orlando, FL.

*“Case Presentations and Discussion with the Neurosurgery Residents”*. Mayo Clinic, Visiting Professor, February 27 and 28, 2019, Rochester, Minnesota.

*“Soccer and Neurosurgery”*. Mayo Clinic, Visiting Professor, February 27 and 28, 2019, Rochester, Minnesota.

*“Lessons and advices from a forever resident/fellow: case discussions”*. Mayo Clinic, Visiting Professor, February 27 and 28, 2019, Rochester, Minnesota.

*“Microsurgical Techniques for Hemostasis: From Simple to Most Complex”*. Breakfast Seminar 116. Anticoagulation for the Neurosurgeon and Hemostasis in Neurosurgery, 2019 AANS Annual Scientific Meeting Los Angeles, CA; April 15, 2019.

*“Role of anatomy and microsurgical training in the lab when dealing with so-called inoperable and complex cases”*. University of West Virginia. Pittsburgh, PA; April 18-19, 2019.

*“Is Brain Tumor Surgery Rocket Science? Case by Case Discussion”* Finley Tumor Board, Dubuque, IA April 24, 2019.

*“Demonstration of basic principles of microsurgical resection of AVMs”*. Microsurgery Reunion (Case Studies). University of Wisconsin, Madison, WI May 3, 2019

*“Extended middle fossa and transcavernous approach in resection of dumbbell-shaped giant trigeminal schwannoma”*. Microsurgery Reunion (Case Studies). University of Wisconsin, Madison, WI May 3, 2019

*“Surgical treatment of giant fusiform aneurysm of proximal pericallosal artery with trapping and STA-to-A3 bypass with radial artery interposition graft”*. Microsurgery Reunion (Case Studies). University of Wisconsin, Madison, WI May 3, 2019

*“Role of extradural clinoidectomy and optic unroofing in resection of clinoidal meningioma – encasement of ICA and its branches”*. Microsurgery Reunion (Case Studies). University of Wisconsin, Madison, WI May 3, 2019

*“Microvascular decompression of V3 branch of trigeminal nerve: a rare case of vascular compression by petrous ICA”*. Microsurgery Reunion (Case Studies). University of Wisconsin, Madison, WI May 3, 2019

*“Orbitozygomatic Approach and Extradural Anterior Craniotomy”*, The Eleventh Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, University of Illinois-Chicago and Loyola University. Madison, Wisconsin. May 4, 2019.

*“Luncheon Case and Video Demonstration”*, The Eleventh Annual Wisconsin Skull Base Course for Neurosurgery Residents at University of Wisconsin-Madison, Medical College of Wisconsin-Milwaukee, University of Minnesota, Rush University, University of Illinois-Chicago and Loyola University. Madison, Wisconsin. May 4, 2019.

*“Microsurgery for Complex and Challenging Intracranial Cases; Case by Case Discussion”*, Neuroscience Group, Neenah, WI. May 29, 2019

*“From Micro-neurosurgery to Ultra-micro-neurosurgery Influence of Little Rock School on my Surgical Journey”*. Arkansas Neuroscience Institute Grand Opening Symposium, Little Rock, Arkansas June 15-16, 2019.

*“Surgical Video Demonstrations”* Arkansas Neuroscience Institute Grand Opening Symposium, Little Rock, Arkansas June 17, 2019.

*“Operating on So-called Inoperable Brain Tumors, Case Based Discussion”* Swedish American Hospital, Rockford, IL, July 15, 2019

*“Fifth Nerve Schwannoma”* Evandro de oliveira cavernous sinus course, Little Rock, Arkansas , August 24-27, 2019.

*“Surgical Video Demonstrations”* Evandro de oliveira cavernous sinus course, Little Rock, Arkansas , August 24-27, 2019.

*“Neurosurgery is not rocket science.”* Neuroanatomy and Cadaveric Dissection Course for Medical Students of University of Illinois Champaign-Urbana, Urbana-Champaign, IL, August 30, 2019.

*“Far Lateral Approach and Its Variations”* Inaugural Carle Illinois Microsurgery and Endoscopic Hands-On Course, University of Illinois, Urbana-Champaign, IL, August 30-31, 2019.

*“Case Presentations and Surgical Videos”* Second Annual Midwest Microsurgery and Microvascular Anastomosis Course. University of Wisconsin. Madison, WI September 14, 2019.

*“Maximal Safe Resection in Thalamic Gliomas is Superior to Biopsy: Personal Reflections on 40 Cases”* the 81<sup>st</sup> Annual Meeting of the American Academy of Neurological Surgery, Rome, Italy, September 18- 21, 2019.

*“Staged Transsphenoidal and Transcranial Surgeries in Giant / Complex Pituitary Tumors”* The European Association of Neurosurgical Societies, TECHNOLOGY, TECHNIQUES, TRAINING AND TRANSPARENCY, Dublin, Ireland, September 24-28, 2019.

*“Arterial Encasement and Intraoperative Management in Skull Base Meningiomas”* The European Association of Neurosurgical Societies, TECHNOLOGY, TECHNIQUES, TRAINING AND TRANSPARENCY, Dublin, Ireland, September 24-28, 2019.

*“Occluded Bypass Salvage Strategies”* 5<sup>th</sup> Cerebrovascular and Skull Base Symposium at the Brigham and Women’s Hospital. Boston, Massachusetts October 5, 2019

*“Chordomas and chondrosarcomas”* Brain Tumor Update: Benign Brain Tumors Symposia, Congress of Neurological Surgery (CNS), San Francisco, CA October 19-23, 2019.

*“Large anterior clinoidal meningioma encasing ICA, ACA & MCA resection via extradural clinoidectomy and optic unroofing”* 3D Surgical Neuroanatomy Symposia, Congress of Neurological Surgery (CNS), San Francisco, CA October 19-23, 2019.

*“Compilation of high grade insular glioma cases encasing lenticulostriate arteries”* 3D Surgical Neuroanatomy Symposia, Congress of Neurological Surgery (CNS), San Francisco, CA October 19-23, 2019.

*“A Neurenteric Cyst of the Cavernous Sinus”* 3D Surgical Neuroanatomy Symposia, Congress of Neurological Surgery (CNS), San Francisco, CA October 19-23, 2019.

*“Is brain tumor surgery rocket science?”*, Adult Advisory Council Meeting, Madison, WI, October 22, 2019

*“Update on So-Called Inoperable Brain Tumors”*, Bellin Hospital, Talk to Neurologist group, Green Bay, WI, November 5, 2019

*“Surgical Strategies for Cerebral Revascularization When There are Limited Bypass Conduit Options and Unexpected Intraoperative Difficulties”*, UW-Neurosurgery Grand Rounds, Madison, WI, November 6, 2019

*“Emergency Referrals to Neurosurgery other than Traumatic Brain Injury; Case by Case Discussions”*, Emergency Provider Meeting , Dubuque, IA, November 20, 2019

*“Microsurgery of Complex Tumors in New Era”*, 28th Annual meeting of Henan Province Neurosurgical Societies, Zhengzhou, China, December 13-15, 2019

*“Neurovascular Surgery in the Endovascular Era”*, 28th Annual meeting of Henan Province Neurosurgical Societies, Zhengzhou, China, December 13-15, 2019

*“STA with Interposition Graft: Variations and Tricks”*, Masters Session, Bypass 2020 Anniversary Symposium, Semi-centennial of brain bypass Symposium, University Hospital Zurich, Switzerland, January 8-10, 2020

*“Is Translabyrinthine Approach Reasonable to Optimize Facial Outcomes”*, NASBS 30th Annual Meeting, San Antonio, Texas, February 9, 2020

*“AVM Surgery”*, UW-Neurosurgery Professor Rounds, Madison, WI, March 27, 2020

*“Microsurgery in the new era: Complex skull base tumors”*, Curso Internacional de Neurocirugía Vascular y Endovascular CINVAE 2020, Mexico Webinar. April 23, 2020

*“The Role of Microanastomosis and Bypass in Endovascular Era: Where are we standing?”* Neurosurgical.TV, Neurosurgery Coach and Asian Medical Students & Residents Society of Neurosurgery (AMSRS) Webinar. April 25, 2020

*“The Role of Microanastomosis and Bypass in Endovascular Era; Endovasküler Çağda Bypass Cerrahisinin Rolü”*. Gazi University Webinar. April 25, 2020

*“Anterior, Middle Third Ventricular & Thalamic Tumors”*, UW-Neurosurgery Professor Rounds, Madison, WI, April 28, 2020

*“Operating on So-called Inoperable Brain Tumors: Role of Neuroanatomy”*, Neurosurgical.TV, Neurosurgery Coach and Asian Medical Students & Residents Society of Neurosurgery (AMSRS) Webinar. May 9, 2020

*“Microsurgery of Arteriovenous Malformations: Technical Nuances”*, Neurosurgical TV, Neurosurgery Coach and Asian Medical Students & Residents Society of Neurosurgery (AMSRS) Webinar. May 23, 2020

*“Is Micro-neurosurgery dying? Microsurgery versus ultra-microsurgery”*, UW-Neurosurgery Professor Rounds, Madison, WI, May 27, 2020

*“Preoperative AVM embolization: It is almost never needed”*, University of Miami Neurosurgical Cerebrovascular and Skull Base Programs Webinars, July 23, 2020

*“Surgical Treatment of Arteriovenous Malformations: Microsurgical Technique and Nuances”*, The Neurosurgical Atlas by Dr. Aaron Cohen-Gadol Webinar, July 27, 2020

*“Translabyrinthine Approach for Optimizing Facial Nerve Outcome in Vestibular Schwannomas”*, Pakistan Neurosurgery Society Webinar, August 5, 2020

*“Role of Neuro-anatomy in Surgical treatment of Complex Intracranial Pathologies”*, University of Oklahoma Virtual Grand Rounds, August 7, 2020

*“Anatomy and Surgery of Anterior Cerebral Artery Aneurysms”*, Cerebrovascular Samurais, 2<sup>nd</sup> Rhoton Society Virtual Meeting & 8th International Zoomposium on Microneurosurgical Anatomy, September 11, 2020

*“A Journey of One Thousand Miles in Cerebral Bypass— From Laboratory Training to Complex Vascular and Neoplastic Cases”*, Bypass Surgery: To boldly go..., 2<sup>nd</sup> Rhoton Society Virtual Meeting & 8th International Zoomposium on Microneurosurgical Anatomy, September 12, 2020

*“Role of Neuroanatomy on Skull Base Surgery”*, Ministry of Health, Republic of Uzbekistan, Samarkand State Medical Institute. Webinar, September 12, 2020

*“Anatomy, Techniques and Career Planning in Neurosurgery”*, Mayo Clinic- Circle of Willis, September 24, 2020

*“Anterior Skull Base Meningiomas Classification and Microsurgical Techniques for Resection”*, Dakar International Webinar, October 10, 2020

*“Don't fit into your own shell! Micro-surgery advice from forever assistant / fellow”*, İZMİR On-line Neurosurgery, October 17, 2020

*“Open Surgery for Brain Metastasis”*, UW- Madison Inaugural Multidisciplinary CNS Metastasis Update, October 17, 2020

*“Microsurgical Treatment of PICA and Vertebro-basilar Junction Aneurysms”*, Asian Congress of Neurological Surgeons (ACNS) Webinar, October 24, 2020

*“Doing Complex Brain Surgeries with A-Team”*, Wisconsin State Assembly of Surgical Technologists (AST) Webinar, October 24, 2020

*“Operating on So-called Inoperable Gliomas”*, UW-Neurosurgery Grand Rounds, Madison, WI, November 4, 2020

*“Translabrynthine approach for optimizing facial nerve outcome in vestibular schwannoma treatment”*, Neurosurgery Departement, National Brain Center, Jakarta – Indonesia Webinar, November 7, 2020

*“Posterior Petrosal Approach”*, Acibadem University, Online Skull Base Course - Masters with Turkish Rhoton Fellows, November 14, 2020

*“Orbitozygomatic Approaches to Middle Fossa and Cavernous Sinus”*, North American Skull Base Society (NASBS), Virtual Skull Base Workshop, November 18, 2020

*“Current State of Open Vascular Neurosurgery in Endovascular Era”*, Marmara University, Marmara Neurosurgery Online Meeting, November 22, 2020



*“Approach to Cerebral Aneurysms”*, WFNS Neurosurgical Anatomy Webinars, December 2, 2020

*“Is Neurosurgery Rocket Science? Daily Physics of Neurosurgery”*, Second International Congress of Neuroscience; *“The world of neurosurgery in your fingertips”* Webinar, December 19, 2020

*“Vestibular Schwannoma Surgery: Truth Told”*, Microsurgery Resurgence Webinars, December 19, 2020

*“Complications avoidance and management in cerebrovascular surgery”*, Turkish Neurosurgery Association-Neurovascular Surgery Education and Training Group, January 16, 2021

*“To embolize or not to embolize: that is the question for arteriovenous malformations”*, The Journal of Neurosurgery; JNS Journal Club, Neurosurgical Focus- January 2021 Video; Posterior fossa arteriovenous malformations, January 26, 2021

*“Microsurgical Management of Midbrain Gliomas: Truth Told”*, Microsurgery Resurgence Webinars, January 30, 2021

*“Contemporary Neurosurgical Approach To Unruptured Intracranial Aneurysms”*, Nervous System Surgery; Vascular Neurosurgery Symposium, February 6, 2021

*“Microsurgery Training in Neurosurgery: Practical Tips in the Laboratory and Operating Room ”*, İZMİR On-line Neurosurgery, February 6, 2021

*“Clippology with the Masters”*, Barrow Neurological Institute, February 16, 2021

*“Posterior Circulation Aneurysms”*, 7th WFNS Foundation ACNS Winter WEB Seminar, February 20, 2021

*“Exact Clipping of Aneurysms and Reconstruction of Complex Aneurysms: Truth Told”*, Microsurgery Resurgence Webinars, February 27, 2021

*“Microsurgical Technique and Nuances in Cerebral AVMs”*, UW-Neurosurgery Grand Rounds, Madison, WI, March 3, 2021

*“Surgical Treatment of Complex Aneurysms in Endovascular Era”*, WFNS Neurosurgical Anatomy 9th Webinar, March 23, 2021

*“Microsurgical Technique and Nuances in Cerebral AVMs”*, Ain Shams University; Neurosurgery Webinar Series, April 10, 2021

*“Tricks in Microsurgical Treatment of Vestibular Schwannomas”*, International Basic Neurosurgery Course (IBNC) Webinar V; The Tricks of Microneurosurgery, April 17, 2021

*“Training and Career Planning on Abroad”*, Webinar for students and residents at the University of Ankara Medical School. April 24, 2021

*“Approaches to The Thalamic Gliomas: Pitfalls and Surgical Tricks”*, II. White Matter Dissection Course and Surgery of Gliomas, Acıbadem University, Masters with Turkish Rhoton Fellows Group, May 8, 2021

*“Pterional Approach, Orbitozygomatic Approach, Anterior Clinoidectomy, and Unlocking the Cavernous Sinus”*, The 13th Annual Wisconsin Skull Base Course, Session 1, May 15, 2021.

*“Dealing with Vascular Encasement in Skull Base Surgery”*, University of Miami Cerebrovascular and Skull Base International Symposium, May 20, 2021.

*“Far Lateral Transcondylar Approach”*, The 13th Annual Wisconsin Skull Base Course, Session 2, May 29, 2021.

*“Complication avoidance and management of cerebral aneurysms”*, Cerebrovascular Committee of WFNS; Webinar # 40: Cerebral Aneurysms & AVMs, June 4, 2021.

*“Operating on So-Called Inoperable Gliomas”*, the Neurosurgical Atlas, June 7, 2021.

June 7, 2021.

*“Microneurosurgery training from lab to operating room: tips and advices”*, ACNS-YNS Monthly Education Webinar for YNS, June 13, 2021.

*“Neurosurgery as a career goal”*, İZMİR On-line Neurosurgery, July 3, 2021.

*“Professor Dr. Mahmut Gazi Yaşargil; Father of Microneurosurgery, The Impact of the Micro-surgery, Session 1”*, Truth Told, Microsurgery Resurgence Webinars, July 6, 2021.

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### **Published Comments**

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### **Submitted Papers**

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### **Books**

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  98. Bozkurt M, Canbay S, Fidan E, Akture E, Salamat MS, **Baskaya MK**. Microsurgical anatomy of the dorsal thoracic rootlets and dorsal root entry zones. European Association of Neurosurgical Societies Annual Meeting. Bratislava, Slovakia. October 24-27, 2012. [oral presentation]
  99. Bauer A, Uluc K, **Baskaya MK**. Management of clivus chordoma invading through dura to brainstem: A surgical video presentation. The 8<sup>th</sup> International Congress on Meningiomas and Cerebral Venous System (ICOMCVS) and the 3<sup>rd</sup> International Symposium on the Cavernous Sinus (ISOCS), Little Rock, Arkansas, November 4-7, 2012
  100. Agrawal B, **Baskaya MK**. Microsurgical resection of tuberculum sellae meningioma with extradural clinoidectomy and optic unroofing. A surgical video presentation. The 8<sup>th</sup> International Congress on Meningiomas and Cerebral Venous System (ICOMCVS) and the 3<sup>rd</sup> International Symposium on the Cavernous Sinus (ISOCS), Little Rock, Arkansas, November 4-7, 2012
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106. Uluc K, Cikla U, Swanson K, **Baskaya MK**. A novel technique of arachnoid retraction in microneurosurgical resection. North American Skull Base Meeting. Tampa, Florida. February 20-22, 2015. [poster presentation].
107. Cikla U, Salamat S, Arman A, **Baskaya MK**. Mapping of the Blood Supply of the Internal Capsule in Cadaveric Brain by a Novel Technique . Congress of Neurological Surgeons Annual meeting, September 26-30, 2015. New Orleans, La. [poster presentation].
108. Cikla U, Salamat S, **Baskaya MK**. The Sulci Variations of the Inferior Surface of the Temporal Lobe. Congress of Neurological Surgeons Annual Meeting, September 26-30, 2015. New Orleans, La. [poster presentation].
109. Kujoth G, Cikla U, **Baskaya MK**. Monitoring Ischemic Cerebral Injury in Spontaneously Hypertensive Rats by Diffusion Tensor Imaging. Congress of Neurological Surgeons Annual meeting, September 26-30, 2015. New Orleans, La. [poster presentation].
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113. Peker HO, Eser P, Sahin B, Aydin I, Dinc C, Kanaliyev S, Cikla U, **Baskaya MK**. Surgical approaches for thalamic gliomas. XVI World Congress of Neurosurgery of the World Federation of Neurosurgical Societies, August 20-25, 2017. Istanbul, Turkey [oral presentation].

114. Hanalioglu S, Sahin B, Cikla U, Keser N, Aydin I, **Baskaya MK**. Results of microsurgery for poor-grade aneurysmal subarachnoid hemorrhage in the endovascular era. XVI World Congress of Neurosurgery of the World Federation of Neurosurgical Societies, August 20-25, 2017. Istanbul, Turkey [poster presentation].
115. Hanalioglu S, Sahin B, Cikla U, Kozan A, Aydin I, Peker HO, Dinc C, Ocak PE, Ocak U, **Baskaya MK**. Safety of perioperative aspirin use in brain tumor surgery: To stop or not to stop? XVI World Congress of Neurosurgery of the World Federation of Neurosurgical Societies, August 20-25, 2017. Istanbul, Turkey [poster presentation].
116. Cikla U, Hanalioglu S, Sahin B, Aydin I, Dinc C, Ocak PE, Peker HO, **Baskaya MK**. Intracranial aneurysms and metabolic syndrome: Multiplicity and risk of rupture. XVI World Congress of Neurosurgery of the World Federation of Neurosurgical Societies, August 20-25, 2017. Istanbul, Turkey [oral presentation].
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118. Aydin I, Hanalioglu S, Peker HO, Sahin B, Dinc C, Ocak P, Cikla U, **Baskaya MK**. A natural corridor to reach the lesions around the fourth ventricle: The tonsillouvular fissure approach. XVI World Congress of Neurosurgery of the World Federation of Neurosurgical Societies, August 20-25, 2017. Istanbul, Turkey [oral presentation].
119. **Baskaya MK**. Results of Microsurgery for Poor Grade Aneurysmal Subarachnoid Hemorrhage in Endovascular Era. 79<sup>th</sup> Annual Scientific Meeting of the American Academy of Neurological Surgery. September 13-16, 2017. Santa Barbara, CA. [oral presentation]
120. Ocak P, Digan I, Ocak U, Dinc C, **Baskaya MK**. Facial nerve outcome and extent of resection in cystic versus solid vestibular schwannomas in radiosurgery era: Is near-perfect possible? The 28<sup>th</sup> Annual Meeting of North American Skull Base Society. February 16-18, 2018. Coronado, CA. [oral presentation]
121. **Baskaya MK**, Cikla U. Revascularization for cerebral ischemia: step by step demonstration of bonnet bypass. August 29<sup>th</sup> - September 3<sup>rd</sup> 2018, Prague, Czech Republic [oral presentation].

122. **Baskaya MK**, Cikla U. Microsurgical obliteration of supraclinoid giant aneurysm via trapping and EC-IC bypass after failed flow diverting stenting. August 29th - September 3rd 2018, Prague, Czech Republic [oral presentation].
123. Cikla U, Schmidt B, **Baskaya MK**. Combined transpetrosal and subtemporal approach for petroclival meningioma: microsurgical technique. August 29th - September 3rd 2018, Prague, Czech Republic [oral presentation].
124. Cikla U, **Baskaya MK**. Microsurgical resection of Spetzler-Martin grade IV limbic AVM via interhemispheric approach. August 29th - September 3rd 2018, Prague, Czech Republic [oral presentation].
125. Cikla U, **Baskaya MK**. Paramedian supracerebellar transtentorial approach for meningioma resection. August 29th - September 3rd 2018, Prague, Czech Republic [oral presentation].
126. Ozaydin B, Cikla U, **Baskaya MK**. Microsurgical resection of anterior clinoidal meningioma via extradural anterior clinoidectomy and optic unroofing. August 29th - September 3rd 2018, Prague, Czech Republic [oral presentation].
127. Sayyahmelli S, Cikla U, **Baskaya MK**. Gross total resection of large cerebellopontine angle meningioma with a supratentorial extension via retrosigmoid approach with suprameatal drilling and tentorial sectioning. August 29th - September 3rd 2018, Prague, Czech Republic [oral presentation].
128. **Baskaya MK**, Sayyahmelli S, Cikla U. Demonstration of emergent clipping of ruptured pericallosal aneurysm which continued to rupture prematurely during skin incision. August 29th - September 3<sup>rd</sup>, 2018, Prague, Czech Republic [oral presentation].
129. **Baskaya MK**. Maximal safe resection in thalamic gliomas is superior to biopsy” Personal reflections on 40 cases. Annual Meeting of American Academy of Neurological Surgeons. [oral presentation]
130. Dawkins D, Harvey E, Li K, Aagaard-Kienitz B, Niemann D, **Baskaya MK**, Schafer S, Strother C, Ahmed A. E-174 Recognition of SAH patients at high risk for symptomatic vasospasm: responses to acetazolamide challenge. Journal of NeuroInterventional Surgery 12 (Suppl 1), A124-A124, 2020. [Conference paper]

