

Biography



SIMA SAYYAHMELLI

Work Address: University of Wisconsin-Madison, Department of Neurological Surgery, School of Medicine and Public Health, K4/848 CSC, 600 Highland Ave, Madison, WI 53792-8660

Education and Postgraduate Training- March 2021- Present Assistant Researcher, Department of Neurological Surgery, University of Wisconsin- Madison, Madison, Wisconsin, USA

January 2021- March 2021 Research Associate, Department of Neurological Surgery, University of Wisconsin- Madison, Madison, Wisconsin, USA

September 2016- December 2021 Research fellow, Department of Neurological Surgery, University of Wisconsin- Madison, Madison, Wisconsin, USA

February 2016- September 2016 Neurosurgeon, Tabriz Medical University, Tabriz, Iran

September 2014- January 31st, 2016 Fellowship of neuro-oncology and epilepsy surgery, Cerrahpaşa medical faculty, Istanbul University, Turkey

September 2012- September 2014 Neurosurgeon, Tabriz Medical University, Tabriz, Iran

September 2011- September 2012 Chief Resident in Neurosurgery, Department of Neurological Surgery, Tabriz Medical University, Tabriz, Iran

September 2007- September 2012 Neurosurgery resident, Department of Neurological, Surgery, Tabriz Medical University, Tabriz, Iran

September 2006- September 2007 Physician, Tabriz Medical University, Tabriz, Iran

September 2000- September 2006 Medical Student, Faculty of Medicine, Tabriz Medical, University, Tabriz, Iran

Licensure and Certification

2006 Diploma of Medicine, Tabriz Medical University, Tabriz, Iran

2012 Certification of Specialization in Neurosurgery, Tabriz Medical University, Tabriz, Iran

2015 Diploma in neurosurgery, European Board of Neurological Surgery

2015 Fellow of the European Board of Neurological Surgery (FEBNS)

2016 Fellowship of neuro-oncology and epilepsy surgery, Cerrahpaşa medical faculty, Istanbul University, Turkey

Honors and Awards

2012 Top researcher at “the best scientific paper publication” of 10th Research festival of Tabriz Medical University, Tabriz, Iran

2012 European skull base travel award, U.K

2013 The best young researcher” of 11th Research festival of Tabriz Medical University, Tabriz, Iran

2013 AOspine Middle East Young Researcher Award

Memberships

2008- present American Association of Neurological Surgeons

2008- present Congress of Neurological Surgeons

2010-2014 Aospine

2012 - present European Association of Neurosurgical Societies

2012-2013 North American spine society

Editorial Responsibilities

Reviewer World Neurosurgery

Reviewer and Editorial Board Member Journal of Autoimmune Diseases and Rheumatology

Reviewer and Editorial Board Member SCIENCEDOMAIN International

Reviewer NEURAL REGENERATION RESEARCH

Reviewer BMJ case reports

Reviewer Techniques in Neurosurgery & Neurology

Reviewer Journal of Investigative Surgery

BIBLIOGRAPHY

Manuscripts

1. Alipanahi R, Sayyahmelli M, Ghojazadeh L, Sayyahmelli S. Common visual field defect in the open angle glaucoma eyes. *Rawal Medical Journal*,33(1):99-101, 2008.
2. Bilan N, Miabi Z, Sayyahmelli S. Diagnosis of airway malacia by virtual bronchoscopy. *Pediatrics* 121(Supplement 2); S158, 2008.
3. Shakeri M, Karimi K, Haddadi K, Sayyahmelli S. Prevalence of abdominal aortic aneurysm by Magnetic Resonance Images (MRI) in men over 50 years with low back pain. *Rawal Medical Journal* 34 (1), 1-6, 2009.
4. Shimia M, Sayyahmelli S. Traumatic displacement of the globe into the brain: report of a rare case and brief review of literature. *Rawal Med J.* 34(2):234-5, 2009.
5. Alipanahi R, Sayyahmelli S, Sayyahmelli M. Horner's syndrome: unusual complication after head and neck tumors surgery, *Rawal Medical Journal* 34(1); 17-18, 2009.
6. Alipanahi R, Sayyahmelli S, Sayyahmelli M. Ocular complications of functional endoscopic sinus surgery. *Tabriz Medical Journal* 2009.
7. Lotfinia I, Sayyahmelli S, Vahedi A. Huge cervical extradural schwannoma presenting as C2–C5 vertebral body lesion: a rare case report and literature review. *Neurosurgery Quarterly* 20(1):39-41, 2010.
8. Lotfinia I, Haddadi K, Sayyahmelli S. Computed tomographic evaluation of pedicle dimension and lumbar spinal canal. *Neurosurgery Quarterly.* 20(3):194-198, 2010.
9. Lotfinia I, Sayyahmelli S. Complications of percutaneous vertebroplasty: a clinical study and literature review. *Neurosurgery Quarterly.* 20(4):241-246, 2010.
10. Lotfinia I, Sayyahmelli S, Vahedi A. Cyst of the ligamentum flavum associated with spondylolisthesis: rare case report and literature review. *Neurosurgery Quarterly.* 20(4):247-249, 2010.
11. Lotfinia I, Sayyahmelli S, Gavami M. Postoperative computed tomography assessment of pedicle screw placement accuracy. *Turk Neurosurg.* 20(4):500-7, 2010.
12. Lotfinia I, Sayyahmelli S. Rare symptomatic osteochondroma of the spine in a very old patient. *Neurosurgery Quarterly.* 21(1):22-25, 2011.
13. Lotfinia I, Sayyahmelli S, Gavami M. Efficacy of anterior cervical discectomy and fusion on adjacent disc height. *Neurosurgery Quarterly.* 21(2):137-142, 2011.
14. Lotfinia I, Sayyahmelli S. Solitary thoracic spine osteochondroma: an unusual cause of Spinal Cord Compression. *Neurosurgery Quarterly.* 21(4):280-282, 2011.
15. Lotfinia I, Sayyahmelli S, Khallaghi E. Effects of serum level of osteoprotegerin on postlaminectomy epidural fibrosis. *Neurosurgery Quarterly.* 21(4):240-243, 2011.
16. Alipanahi R, Sayyahmelli M, Sayyahmelli S. Ocular complications of functional endoscopic sinus surgery. *J Pak Med Assoc.* 61(6):537-40, 2011.

17. Alipanahi R, Sayyahmelli S. Acute papillitis in young female with toxoplasmosis. *Middle East Afr J Ophthalmol.* 18(3):249-51, 2011.
18. Alipanahi R, Sayyahmelli S. Outcomes of primary angle closure glaucoma management. *Journal of Pakistan Medical Association* 61(7):636-9, 2011.
19. Sayyahmelli S, Lotfinia I, Miabi Z. Magnetic resonance image findings in the early period after lumbar discectomy with satisfactory results. *Neurosurgery Quarterly.* 22(2):113-118, 2012.
20. Lotfinia I, Sayyahmelli S. Incidental Durotomy During Lumbar Spine Surgery. *Neurosurgery Quarterly.* 22(2):105-112, 2012.
21. Abbasiranjbar Z, Bahrami A, Shakeri M, Aliasgarzadeh A, Mobasseri M, Najafipour F, Ala A, Nourazarian M, Sayyahmelli S, Estakhri R, Parkhideh. Evaluation of Anterior Pituitary Function Following Traumatic Brain Injury. *Iranian Journal of Endocrinology and Metabolism* 13(5), 2012.
22. Lotfinia I, Sayyahmelli S, Mahdkhah A, Shoja MM. Intradural extramedullary primary hydatid cyst of the spine: a case report and review of literature. *European Spine Journal* 22 Suppl 3: S329-36, 2013.
23. Lotfinia I, Sayyahmelli S, Khosroshah MT, Vahedi N. Skin lesions in occult spinal dysraphism: a case series. *Neurosurgery Quarterly* 24 (1); 63–66, 2014.
24. Sayyahmelli S, Baran O, Tanriverdi T, Kocer N, Ak H. Immediate adverse reactions and anaphylaxis associated with gadolinium-based contrast agents in a patient with meningioma: case report and literature review. *British journal of medicine and medical research,* 10(1), 1-5, 2015.
25. Tanriverdi T, Kemerdere R, Baran O, Sayyahmelli S, Ozlen F, Isler C, Uzan M, Ozyurt E. Long-term surgical and seizure outcomes of frontal low-grade gliomas. *International Journal of Surgery* 33 Pt A:60-4, 2016.
26. Sayyahmelli S, Tanriverdi T. Posterior Fossa Metastazlarının Tedavi Yönetimi. *Türk Nöroşir Derg* 27(1):93-97, 2017.
27. Sayyahmelli S, Baran O, Uğurlar D, Kemerdere R, Antar V, Tanriverdi T. Intracranial intraventricular tumors: long-term surgical outcome of 25 patients. *Turkish Journal of Medical Sciences* 47(1):76-84, 2017.
28. Atukeren P, Turk O, Yanar K, Kemerdere R, Sayyahmelli S, Eren B, Tanriverdi T. Evaluation of ALCAM, PECAM-1 and selectin levels in intracranial meningiomas. *Clinical Neurology and Neurosurgery* 160:21-26, 2017.
29. Baran O, Sayyahmeli S, Tanriverdi T, Erdinçler P. Rapid recurrence of a malignant meningioma: case report. *Romanian Neurosurgery* 31(2); 178-181,2017.
30. Tanriverdi T, Sayyahmelli S, Kemerdere R, Atukeren P, Eren B. Selectins, activated leukocyte cell adhesion molecule, and platelet endothelial cell adhesion molecule-1 tissue levels in patients with low- and high-grade gliomas. *Journal of Neurological Sciences [Turkish]* 34(1), 2017.

31. Ocak U, Ocak PE, Cikla U, Sayyahmelli S, Baskaya MK. Vascular complications of the gunshot wounds to the head. *Contemporary Neurosurgery* 39(17):1-7, 2017.
32. Baran O, Kemerdere R, Yuksel O, Sayyahmelli S, Akkaya N, Tanriverdi T, Kafadar AM. Effect of External Ventricular Drainage on Serum Sodium Levels in Adult Neurosurgical Patients /Eriskin Norosirurji Hastalarinda Eksternal Ventrikuler Drenajin Serum Sodyum Duzeyine Etkisi." *Bezmialem Science* 6: 84-89, 2018
33. Sayyahmelli S, Baskaya MK. Microsurgical resection of large thoracic intramedullary hemangioblastoma with long segment syrinx: 3D operative video. *Operative Neurosurgery* Oct 1;15(4):470, 2018
34. Sayyahmelli S, Dogan I, Baskaya MK. Microsurgical resection of posterior third ventricular/pineal region papillary tumor via supracerebellar infratentorial approach: 3D operative video. *Operative Neurosurgery* Dec 1;15(6): E87, 2018
35. Sayyahmelli S, Aydin I, Wheeler B, Baskaya MK. Mapping of the internal capsule with subcortical stimulation for gross total resection of a thalamic metastatic tumor. *Neurosurgical Focus* Oct;45(VideoSuppl2) V7, 2018
36. Sayyahmelli S, Kina H, Ucer M, Salamat S, Baskaya MK. Frontal lobe intracerebral schwannoma mimicking metastatic lesion in a patient with papillary thyroid carcinoma. *Journal of Surgical Case Reports* Aug 20;2018(8): ryj212, 2018.
37. Sayyahmelli S, Ahmetpahic A, Baskaya MK. Gross total resection of large cerebellopontine angle meningioma with a supratentorial extension via retrosigmoid approach with suprameatal drilling and tentorial sectioning. *Journal of Neurological Surgery: Skull Base* Dec; 79 (Suppl 5); S399-S401, 2018
38. Sayyahmelli S, Roche J, Baskaya MK. Microsurgical gross total resection of a large residual/recurrent vestibular schwannoma via translabyrinthine approach. *Journal of Neurological Surgery: Skull Base* Dec; 79 (Suppl 5); S387-S388, 2018
39. Sayyahmelli S, Ucer M, Baskaya MK. Microsurgical gross total resection of a WHO grade II cerebellopontine angle ependymoma in an adult. *Journal of Neurological Surgery: Skull Base* Dec; 79 (Suppl 5); S426-S427, 2018
40. Aydin I, Sayyahmelli S, Pyle M, Baskaya MK. Gross total resection of a jugular foramen thyroid medullary metastasis via a transjugular transsigmoid approach. *Journal of Neurological Surgery: Skull Base* Dec; 79 (Suppl 5); S424-S425, 2018
41. Sayyahmelli S, Baskaya MK. Microsurgical resection of anaplastic ependymoma of the cerebellopontine angle in an adult. *Operative Neurosurgery* Mar 1;16(3): E91, 2019
42. Sayyahmelli S, Aycan A, Erginoglu U, Baskaya MK. Spinal hemangioblastoma: clinical presentation, radiology and treatment. *Contemporary Neurosurgery* 41(9):1-7, 2019
43. Sayyahmelli S, Baskaya MK. Microsurgical resection of a large cavernous malformation of the medulla oblongata. *Neurosurgical Focus Video* 1 (1): V25, 2019

44. Sayyahmelli S, Aydin P, Baskaya MK. Delayed onset abducens nerve palsy following uncomplicated large cystic vestibular schwannoma resection: Case Report. *Journal of Neurological Surgery: Skull Base* 80: e37–e40, 2019.
45. Sayyahmelli S, Ruan J, Wheeler B, Baskaya MK. Microsurgical Resection of a Glioblastoma Multiforme of the Medulla Oblongata with Intraoperative Subcortical Stimulation and Mapping. *Neurosurgical Focus Video* 1 (2): V1, 2019.
46. Sayyahmelli S, Baskaya MK. Microsurgical gross total resection of foramen magnum meningioma via far lateral approach. *Journal of Neurological Surgery: Skull Base* 80 (suppl S4): S360–S362, 2019
47. Sayyahmelli S, Dogan I, Wieland AM, Pyle M, Baskaya MK. Aggressive, multidisciplinary staged microsurgical resection of a giant cervicomedullary junction chordoma. *Journal of Neurological Surgery: Skull Base* 80 (suppl S4): S378–S379, 2019
48. Li Y, Sayyahmelli S, Baskaya MK. Spontaneous Subarachnoid Hemorrhage from a Pure Pial Arterial Malformation in the Lateral Cerebellomedullary Junction: Clinical Images with Surgical Video. *World Neurosurgery*: 135 (1), 214-216, 2020.
49. Sayyahmelli S, Kessely YC, Chen X, Dempsey RJ, Baskaya MK, From Avicenna to Present, History of International Fellowship and Observership: University of Wisconsin-Madison Experience. *Turkish Neurosurgery* 135:214 - 216, 2020.
50. Parmar V, Cikla U, Sayyahmelli S, Ozaydin B, Tumturk A, Ahmed AS, Baskaya MK. Intraoperative clip drilling modification of aneurysm clips: Revisiting old technique in new era. *World Neurosurgery* 139: 361-369, 2020.
51. Tahmazoglu B, Kartum, T, Kemerdere R, Sayyahmelli, S, Yeni, S, Tanriverdi T. Seizure Outcome in Adult Patients with Isolated Focal Cortical Dysplasia in Modern Era. *Cerrahpaşa Medical Journal* 44(2): 86-92, 2020.
52. Sayyahmelli S, Ozaydin B, Sahin B, Erginoglu U, Cikla U, Baskaya MK. Surgical Strategies for Cerebral Revascularization in Cases with Limited Bypass Conduit Options and Unexpected Intraoperative Difficulties. *World neurosurgery* 141: e959-e970, 2020.
53. Erginoglu U, Sayyahmelli S, Baskaya MK. Trigeminal Neuralgia Caused by Vascular Compression from the Petrous Carotid Artery with Bony Erosion and Meckel's Cave Encephalocele: Clinical Imaging with Surgical Video. *World Neurosurgery* 145: 360-362, 2021.
54. Soylemez B, Turan Y, Sayyahmelli S, Baskaya MK. Demonstration of Microsurgical Technique and Nuances for the Obliteration of Complex Intracranial Dural Arteriovenous Fistulas in Three Consecutive Cases: Operative Video. *World Neurosurgery* 145: 434, 2021
55. Sayyahmelli S, Ruan J, Avci E, Baskaya MK. Demonstration of Microsurgical Technique and Nuances for the Resection of a Midbrain Tectal Glioma via the Transcollicular Approach: 3-Dimensional Operative Video. *Operative Neurosurgery* (in press)
56. Elshamy W, Ozaydin B, Sayyahmelli S, Salamat S, Baskaya MK. A Neurenteric Cyst of the Cavernous Sinus: A case report. *Journal of Neurological Surgery: Reports* (in press).

57. Sayyahmelli S, Sayyahmelli S, Erginoglu U, Baskaya MK. Neurotoxic Effects of Ammonia in a Patient with Ornithine Transcarbamylase Deficiency and Bilateral Brain Abscesses: Case Report. *The Neurohospitalist* (in press).
58. Sayyahmelli S, Sun Z, Avci E, Baskaya MK. Role of Extradural Clinoidectomy and Optic Unroofing in Resection of an Anterior Clinoidal Meningioma with Encasement of the Internal Carotid Artery and its Branches. *Journal of Neurological Surgery: Skull Base* (in press).
59. Sayyahmelli S, Avci E, Ozaydin B, Baskaya MK. Transcavernous Approach for Gross Total Resection of a Dumbbell-Shaped Giant Trigeminal Schwannoma. *Journal of Neurological Surgery: Skull Base* (in press).
60. Sayyahmelli S, Erginoglu U, Roche J, Baskaya MK. Gross Total Resection of a Chondrosarcoma Involving the Cavernous Sinus, Petrous Apex and Clivus via Combined Transcavernous and Kawase Approach: Surgical Video. *Journal of Neurological Surgery: Skull Base* (in press).
61. Elshamy W, Soylemez B, Sayyahmelli S, Keser N, Baskaya MK. Transcavernous Resection of a Giant Extensive Chondrosarcoma with Endoscopic Assistance. *Journal of Neurological Surgery: Skull Base* (in press).
62. Sayyahmelli S, Sayyahmelli S, Aydin I, Baskaya MK. Supracerebellar Transtentorial Approach: Anatomic Description, Operative Technique, and Clinical Applications. *Contemporary Neurosurgery* 43 (1): 1- 6, 2021

Submitted Papers

1. Sayyahmelli S, Sayyahmelli S, Ozaydin B, Erginoglu U, Keles A, Sun Z, Baskaya MK. Safety and Efficacy of Microsurgery for Complex Cranial Pathologies in the Ultra-Geriatric Population. *Acta Neurochirurgica* (submitted).
2. Aycan A, Eren B, Celik S, Karagoz Guzey F, Gonullu E, Saglam E, Sayyahmelli S, Kuyumcu F, Akyol ME, Tas, Cetin E. Treatment and outcomes of patients with metastatic spinal cord compression: A Double-center Study. *European Spine Journal* (submitted).
3. Hanalioglu S, Sahin B, Sayyahmelli S, Ozaydin B, Erginoglu U, Aycan A, Baskaya MK. Can Microsurgery Provide Superior Outcomes for Poor-Grade Aneurysmal Subarachnoid Hemorrhages in the Endovascular Era? *Journal of Neurosurgery* (submitted).
4. Sayyahmelli S, Sayyahmelli S, Baskaya MK. Hyperperfusion Hemorrhage Following Double Barrel STA-MCA Bypass for Moyamoya Disease: Operative Video, *World Neurosurgery* (submitted)

Book Chapters

1. Sayyahmelli S and Alipanahi R. Screening for Abdominal Aortic Aneurysm. In Grundmann RT (Ed): *Diagnosis and Treatment of Abdominal and Thoracic Aortic Aneurysms Including the Ascending Aorta and the Aortic Arch*, InTech; 25-36, 2011.
2. Sayyahmelli S and Alipanahi R. Cyclodestructive Procedures. In Rumelt S (Ed). *Glaucoma - Basic and Clinical Concepts*. InTech 443-450, 2011.

3. Sayyahmelli S, Tanriverdi T. Konjenital Kraniyal ve Spinal Malformasyonlar. In Çocuk ve Ergende Nörolojik Hastalıklara Yaklaşım Rehber Kitabı 2015.
4. Sayyahmelli S, Leonhard L, Ozaydin B, Roche J. Vestibular Schwannomas: Neurology, Neurophysiology and Anatomy. In Baskaya MK, Pyle M, Roche J. (Eds). Vestibular schwannoma Surgery. A Video Guide. Pages 15-58, Springer, 2019 (ISBN 978-3-319-99298-3).
5. Ocak P, Dogan I, Sayyahmelli S, Baskaya MK. Retrosigmoid Approach for Vestibular Schwannoma Surgery. In Baskaya MK, Pyle M, Roche J. (Eds). Vestibular schwannoma Surgery. A Video Guide. Pages 105-133, Springer, 2019 (ISBN 978-3-319-99298-3).
6. Dawkins D, Sayyahmelli S, Baskaya MK. Posterior Circulation Aneurysms. In Cerebrovascular Surgery-Controversies, standards, and advances. Kato Y and Ansari A (Ed). (submitted)

International Collaborative Studies

1. Tuberculum Sellae Meningioma study, UCSF
 2. Prediction of Adverse Events after Microsurgery for Intracranial Unruptured aneurysMs (PRAEMIUM) study. International, multicenter study, Department of Neurosurgery, University Hospital Zürich, Switzerland
- Projects with IRB Approval
1. Cerebral Bypass chart review (ID: 2018-1090, PI: MUSTAFA BASKAYA)
 2. Cerebral revascularization in complex intracranial pathologies (ID: 2016-1398, PI: MUSTAFA BASKAYA)
 3. Review of Suprasellar and Parasellar Meningiomas Diagnosed or Treated at the University of Wisconsin Hospital and Clinics (ID: 2013-0944, PI: MUSTAFA BASKAYA)
 4. Epidemiological and Outcome Review of Patients Admitted to University of Wisconsin Hospital and Clinics with Diagnosis of Subarachnoid Hemorrhage and Intracranial Aneurysms (ID: 2015-0856, PI: MUSTAFA BASKAYA)
 5. Colloid Cysts (ID: 2019-0432, PI: MUSTAFA BASKAYA)
 6. Intracranial pathologies (ID: 2019-0307, PI: MUSTAFA BASKAYA)
 7. Retrospective Chart review of Foramen Magnum Meningioma cases (ID: 2019-0523, PI: MUSTAFA BASKAYA)
 8. High-grade gliomas in eloquent areas (ID: 2019-0397, PI: MUSTAFA BASKAYA)
 9. Functional Outcome in traumatic and spontaneous intracranial hemorrhages (ID: 2015-1015, PI: MUSTAFA BASKAYA)
 10. Effects of antiplatelet use on cranial surgery (ID: 2014-0107, PI: MUSTAFA BASKAYA)
 11. Incidence of vein thrombosis complicating operations at the skull base 5-year renewal (ID: 2015-1470, PI: MUSTAFA BASKAYA)

12. Surgical treatment of thalamic tumors chart review (ID: 2016-1264, PI: MUSTAFA BASKAYA)
13. Review of Vestibular Schwannomas Diagnosed or Treated at the University of Wisconsin Hospital and Clinics from 2005-2017 (ID: 2017-0700, PI: MUSTAFA BASKAYA)
14. Vascular Injury chart review (ID: 2018-1436, PI: MUSTAFA BASKAYA)
15. Review of Insular Tumors Diagnosed or Treated at the University of Wisconsin Hospital and Clinics from 2005-2017 (ID: 2017-0986 , PI: MUSTAFA BASKAYA)
16. Contact Database for Participation in Neurological Patient Research Studies (ID: 2014-11186, PI: MICHAEL KOENIGS)
17. Anterior Clinoidectomy (ID: 2019-1492, PI: MUSTAFA BASKAYA)
18. Geriatric Neurosurgery (ID: 2020-0201, PI: MUSTAFA BASKAYA)
19. Pituitary Tumor Surgery Chart Review (ID: 2020-0123, PI: MUSTAFA BASKAYA)
20. Surgical approaches to temporal lobe tumors (ID: 2020-0067, PI: MUSTAFA BASKAYA)
21. UW Neurosurgery Inpatient/Outpatient Outcomes; 5-year renewal (ID: 2015-1166, PI: Joshua Medow)
22. Oneida Protocol (ID: 2019-1550, PI: Robert Dempsey)
23. HCRN Core Data Project (ID: 2019-1393, PI: Raheel Ahmed)
24. Carotid Plaque Study II (ID: 2015-0289, PI: Robert Dempsey)
25. UW RCC (ID: 2014-0187, PI: Robert Dempsey)
26. NIRS 5-year replacement (ID: 2017-1180, PI: Joshua Medow)
27. EVD Stealth Study (ID: 2017-1487, PI: Azam Ahmed)
28. MOST trial (ID: 2019-0284, PI: Azam Ahmed)
29. SATURN (ID: 2020-0145, PI: Azam Ahmed)
30. Sleep SMART study (ID: 2019-0561, PI: Robert Dempsey)
31. ARCADIA-CSI (ID: 2019-1506, PI: Luke Bradbury)
32. PNCR – Pediatric Neurosurgery Clinical Research Review (ID: 2019-0183, PI: Bermans Iskandar)
33. SLIP II Registry (ID: 2018-0873, PI: Daniel Resnick)
34. Review of Peripheral Nerve Surgery at the University of Wisconsin Hospital and Clinics and Meriter from 2009-present (ID: 2013-1411, PI: Amgad Hanna)
35. NEMR – Endoscopic Neurosurgical Review; 5-year replacement (ID: 2017-0706, PI: Bermans Iskandar)
36. MRgLITT Registry (ID: 2019-0289, PI: Raheel Ahmed)

37. DNA Methylation in Familial Chiari I Malformation (ID: 2021-0384, PI: Bermans Iskandar)
38. UW19068: Glioma Protocol (ID: 2019-1308, PI: Mahua Dey)
39. C-arm Cone Beam CTP Guided Interventions for Treatment of Cerebral Ischemia (ID: 2015- 0482, PI: Beverly Kienitz) Projects with institutional animal care and use committee (IACUC)
1. Microsurgical Training Course (ID:M005381-R01, PI: MUSTAFA BASKAYA) Scientific Course Instructor
1. Microsurgery Reunion course, 2017, University of Wisconsin, Madison, WI
 2. Skull Base Course, 2017, University of Wisconsin, Madison, WI
 3. Microsurgery Reunion course, 2018, University of Wisconsin, Madison, WI
 4. Skull Base Course, 2018, University of Wisconsin, Madison, WI
 5. Microsurgery Reunion course, 2019, University of Wisconsin, Madison, WI
 6. Skull Base Course, 2019, University of Wisconsin, Madison, WI
 7. Second Annual Microsurgery and Microvascular Anastomosis Course, 2019, University of Wisconsin, Madison, WI
 8. The 13th Annual Wisconsin Skull Base Course, Session 1, May 15, 2021.
 9. The 13th Annual Wisconsin Skull Base Course, Session 2, May 29, 2021.

Presentations

1. Sayyahmelli M, Alipanahi R, Sayyahmelli S, Sayyahmelli S, Gasemi H. Orbital complication after sinus surgery. IX congress of MEACO, 2007, Dubai, UAE.
2. Alipanahi R, Sayyahmelli M, Sayyahmelli S, Morsali S. Needle revision of failed filtering bleb with low-dose and high-dose subconjunctival injection of mitomycin-c. XXV congresses of the ESRS, 2007, Stockholm, Sweden.
3. Alipanahi R, Mostafaie A, Sayyahmelli M, Sayyahmelli S. Nopentrating glaucoma surgery outcomes. XXV congresses of the ESRS, 2007, Stockholm, Sweden.
4. Alipanahi R, Morsali S, Sayyahmelli S. Developmental congenital ocular tumors: a rare clinicopathologic report of globe xantoma in 8-month child. 8th Royan international twin congress 2007, Tehran, Iran.
5. Alipanahi R, Morsali S, Sayyahmelli S. Stem cells in ophthalmology. 8th Royan international twin congress 2007, Tehran, Iran.
6. Sayyahmelli S, Alipanahi R, Sayyahmelli M, Sayyahmelli S, Ghasemi H, Sayyahmelli SA. Retrobulbar optic neuritis and multiple sclerosis. Saudi journal of ophthalmology 2008, Riyadh, Saudi [oral presentation].

7. Sayyahmelli S, Ghasemi H, Sayyahmelli S, Alipanahi R, Sayyahmelli M, Sayyahmelli SA. Lacrimal Drainage obstruction and dacryocystorhinostomy in children. Saudi journal of ophthalmology 2008, Riyadh, Saudi.
8. Sayyahmelli S, Ghasemi H, Sayyahmelli S, Alipanahi R, Sayyahmelli M, Sayyahmelli SA. Causes of childhood visual impairment. Saudi journal of ophthalmology 2009, Riyadh, Saudi.
9. Alipanahi R, Sayyahmelli M, Sayyahmelli SA, Sayyahmelli S. Retinal sensitivity and retinal nerve fiber layer thickness measured by optical coherences tomography in ocular hypertension. Saudi journal of ophthalmology 2009, Riyadh, Saudi.
10. Alipanahi R, Sayyahmelli M, Sayyahmelli SA, Sayyahmelli S. Corneal curvature and central corneal thickness in eyes with secondary open angle glaucoma. Saudi journal of ophthalmology 2009, Riyadh, Saudi.
11. Alipanahi R, Sayyahmelli S. Ocular manifestations of multiple sclerosis. First local symposium of MS, 2005, Tabriz, Iran.
12. Alipanahi R, Morsali S, Taheri N, Naderi N, Sayyahmelli S, Mamaghani S. Follow up of the patient with massive orbital myiasis infestation Multiple sclerosis. An update with practical guidelines for ophthalmologists. XVI Ophthalmology congress of Iran, 2006, Tehran, Iran.
13. Alipanahi R, Sayyahmelli S, Morsali S, Rahimi S, Mamaghani S. Diabetes mellitus, hypertension and anemia with cataract development and progression. XVI Ophthalmology congress of Iran, 2006, Tehran, Iran.
14. Sayyahmelli S, Alipanahi R, Sayyahmelli M. Vision and hearing loss in older adults. XVI Ophthalmology congress of Iran, 2006, Tehran, Iran.
15. Alipanahi R, Mostafaie A, Morsali S, Sayyahmelli S, Etemadi J. Psychologic Management of loss of vision. XVI Ophthalmology congress of Iran, 2006, Tehran, Iran.
16. Alipanahi R, Sayyahmelli S. Psychiatric disorder in patients with Antiglaucoma medication treatment. 14th International congress of neurology and clinical electrophysiology, 2007, Tehran, Iran.
17. Alipanahi R, Morsali S, Sayyahmelli S. Indication and effect of immunosuppression therapy in secondary glaucoma patients with uveitis. 6th biennial congress on immunology, Asthma & allergy, 2007, Tabriz, Iran.
18. Sayyahmelli S, Alipanahi R, Gassemie H. Functional magnetic resonance imaging corresponds to Humphrey perimetry in a patient with cerebral cause. XVII ophthalmology congress of Iran, 2007, Tehran, Iran.
19. Alipanahi R, Morsali S, Sayyahmelli S. Comparison of biometric parameters in primary glaucoma and cataract patients, Ophthalmology congress of Iran, 2008, Tehran, Iran.
20. Alipanahi R, Sayyahmelli S, Sayyahmelli S, Ghasemi H. Optic nerve head and peripapillary retinal nerve fiber layer (Pnfl) evaluation in optic neuritis and multiple sclerosis by optical coherence tomography. Ophthalmology congress of Iran, 2008, Tehran, Iran.

21. Alipanahi R, Sayyahmelli S. Sayyahmelli S, Ghasemi H. Patients with acute sixth nerve palsy and hypercholesterolemia. Ophthalmology congress of Iran, 2008, Tehran, Iran.
22. Alipanahi R, Mamaghani S, Sayyahmelli S, Sayyahmelli S. Diabetes and hypertension in isolated sixth nerve palsy. Ophthalmology congress of Iran, 2008, Tehran, Iran.
23. Lotfinia I, Sayyahmelli S. Complications of percutaneous vertebroplasty. Catalonia Palace of Congresses, 2011, Barcelona, Spain.
24. Sayyahmelli S, Lotfinia I. Efficacy of Anterior cervical discectomy and fusion on adjacent Disc height Final. Global Spine Congress, 2011.
25. Sayyahmelli S, Alipanahi R. Skin markers of occult spinal dysraphism in children. AANS/CNS Section on Pediatric Neurological Surgery, 2013, Toronto, Canada.
26. Sayyahmelli S, Alipanahi R, Sayyahmelli S. Anterior cervical discectomy and fusion with polyetherether ketone (PEEK) cage; single institute results and literature review. Aospine 2014, Xi'an China.
27. Sayyahmelli S, Alipanahi R, Sayyahmelli S, Sayyahmelli SA. Transsphenoidal microsurgical management of pituitary adenomas. Istanbul, 2014, Istanbul, Turkey [oral presentation].
28. Sayyahmelli S. Magnetic resonance image findings in the early period after lumbar discectomy with satisfactory results. AoSpine 2014, Xi'an China [oral presentation].
29. Sayyahmelli S. Intraoperative cortical mapping: past, present, future. 2014, Cerrahpaşa medical faculty, Istanbul University, Turkey [oral presentation].
30. Sayyahmelli S, Alipanahi R, Sayyahmelli S. Complications of Percutaneous Vertebroplasty: A Clinical Study. 29th Annual Scientific Congress of the Turkish Neurosurgical Society, 2015, Antalya, Turkey [oral presentation].
31. Sayyahmelli S, Alipanahi R, Sayyahmelli S. Postoperative computed tomography assessment of pedicle screw placement accuracy. 29th Annual Scientific Congress of the Turkish Neurosurgical Society, 2015, Antalya, Turkey [oral presentation].
32. Sayyahmelli S, Alipanahi R, Sayyahmelli S. Skin lesions in occult spinal dysraphism. 29th Annual Scientific Congress of the Turkish Neurosurgical Society, 2015, Antalya, Turkey [oral presentation].
33. Sayyahmelli S, Alipanahi R, Sayyahmelli S. Evaluation of anterior pituitary function following traumatic brain injury. 29th Annual Scientific Congress of the Turkish Neurosurgical Society, 2015, Antalya, Turkey [oral presentation].
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35. Sayyahmelli S, Baskaya MK. Spinal thoracic intramedullary hemangioblastoma. Microsurgery Reunion course, 2017, University of Wisconsin, Madison, WI [oral presentation].

36. Baran O, Tanriverdi T, Kemerdere R, Sayyahmelli S, Isler C, Ozlen F, Uzan M, Ozyurt E. Long-Term Surgical and Seizure Outcomes of Frontal Low-Grade Gliomas, 2017, WORLD FEDERATION OF NEUROSURGICAL SOCIETIES, XVI. World Congress of Neurosurgery, Istanbul, Turkey [Poster presentation].
37. Baran O, Sayyahmelli S, Ugurlar D, Kemerdere R, Antar V, Tanriverdi T. Intracranial Intraventricular Tumors: Long-Term Surgical Outcome of 25 Patients, 2017, WORLD FEDERATION OF NEUROSURGICAL SOCIETIES, XVI. World Congress of Neurosurgery, Istanbul, Turkey [Poster presentation].
38. Baran O, Kemerdere R, Yuksel O, Sayyahmelli S, Akkaya N, Tanriverdi T, Kafadar AM. Effect of External Ventricular Drainage on Serum Sodium Levels in Adult Neurosurgical Patients, 2017, WORLD FEDERATION OF NEUROSURGICAL SOCIETIES, XVI. World Congress of Neurosurgery, Istanbul, Turkey [Poster presentation].
39. Sayyahmelli S, Baskaya MK. Microsurgical resection of large petroclival, tentorial based meningioma via combined transpetrosal, translabyrinthine and subtemporal approaches. Microsurgery Reunion course, 2018, University of Wisconsin, Madison, WI [oral presentation].
40. Sayyahmelli S, Baskaya MK. Two comparison cases of falco-tentorial meningiomas to demonstrate importance of straight sinus occlusion in the extent of surgical resection: technical nuances. Microsurgery Reunion course, 2018, University of Wisconsin, Madison, WI [oral presentation].
41. 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].
42. 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 3rd, 2018, Prague, Czech Republic [Oral presentation].
43. Ozaydin B, Sayyahmelli S, Keser N, Ezgi E, Duru B, Cikla U, Baskaya MK. Cerebral revascularization surgery: strategies in cases with limited bypass graft options. Department of neurological surgery Research Day, October 18, 2018 [Poster presentation].
44. Keser N, Cikla U, Ozaydin B, Duru B, Ezgi E, Aycan A, Sayyahmelli S, MD, Baskaya MK. Vertebral Artery Revascularization Surgery Using Occipital Artery: An Anatomical Feasibility Study. Department of neurological surgery Research Day, October 18, 2018
[Poster presentation].
45. Sayyahmelli S, Baskaya MK. Two-stage resection of thalamic gliomas: video demonstration in 3 cases. Microsurgery Reunion course, 2019, University of Wisconsin, Madison, WI [Oral presentation].
46. Sayyahmelli S, Baskaya MK. Microsurgical resection of recurrent/previously radiated hemangiopericytoma in the infratemporal fossa. Microsurgery Reunion course, 2019, University of Wisconsin, Madison, WI [Oral presentation].
47. Sayyahmelli S, Baskaya MK. Management of lenticulostriate arteries engulfed within the GBM in the dominant insula: demonstration of microsurgical technique. Microsurgery Reunion course, 2019, University of Wisconsin, Madison, WI [Oral presentation].

48. Scerbak J, Lapteva O, Sahin OS, Ksanas U, Barkauskiene A, Lengvenis G, Ozaydin B, Sayyahmelli S, Erginoglu U, Yavuz F, Cikla U, Baskaya MK. Locating the Distal Dural Ring on 3D CT Angiography for Classification of Paraclinoid Aneurysms. Department of Neurological Surgery Research Day, October 18, 2020 [Poster presentation].
49. Burkard J, Erginoglu U, Ozaydin B, Sayyahmelli S, Dempsey RJ, Baskaya MK. Treatment of Third Ventricle Colloid Cysts: A Meta-Analysis of Outcomes for Three Surgical Approaches. Department of neurological Neurological Surgery Day, October 23, 2020 [Poster presentation].
50. Ozaydin B, Erginoglu U, Sayyahmelli S, Baskaya MK. Ovoid-Shaped Foramen Magnum Might Be Associated with Lower Extent of Resection and Higher Complication Rates in Surgical Treatment of Anterolateral Foramen Magnum Meningiomas. Department of Neurological Surgery Research Day, October 23, 2020 [Poster presentation].
51. Sayyahmelli S. Microsurgical anatomy of the anterior cerebral artery (ACA), anterior communicating artery and distal ACA, University of Wisconsin Global Weekly Skull Base and Neuroanatomy Resident Course in Conjunction with Turkish Neurosurgical and Pakistan Neurosurgical Societies, MICROSURGICAL NEUROANATOMY, SKULL BASE AND MICRONEUROSURGERY, December 17, 2020 [Oral presentation].
52. Sayyahmelli S. Magnetic Resonance Image Findings in the Early Period After Lumbar Discectomy with Satisfactory Results, WFNS Foundation ACNS Summer WEB Seminar, July 10th-11th, 2021 [Oral presentation].
53. Sayyahmelli S. Intracranial intraventricular tumors: long-term surgical outcome of 25 patients, WFNS Foundation ACNS Summer WEB Seminar, July 10th-11th, 2021 [Oral presentation].
54. Chagharvand S, Sayyahmelli S, Baskaya MK, Darsie M. First reported case of Lactobacillus rhamnosus ventriculitis, likely a probiotic-induced infection. Neurocritical care society meeting, October 26-29th, 2021, Chicago, IL [poster presentation].