

Jaafar Basma, MD

Educational and working background

Jul 2014- Jun 2021	Neurosurgery residency , University of Tennessee Health Sciences Center – Memphis, Tennessee
Aug 2018-Feb 2019	Enfolded skull base and open vascular neurosurgery fellowship , Mr David G. Porter, North Bristol Trust, Bristol, United Kingdom
Jun 2012- Jan 2013	Post-doctoral research fellowship at the Arkansas Neuroscience Institute, Little Rock, Arkansas
2008-2012	BA in Philosophy , Lebanese University, Faculty of Human Sciences
2004-2011	M.D. , Université Saint Joseph, Faculté de Médecine, Beirut
2001 – 2004	Le Lycée National Hanawai High School (Tyre), Life Sciences Division

ECFMG certification

USMLE Step 1	Pass
USMLE Step 2-CK	Pass
USMLE Step 2-CS	Pass
USMLE Step 3	Pass

Certificates

2010-2011	Certificate of Biochemistry. Faculty of Medicine, Saint Joseph University
2008-2009	Certificate of Human Genetics. Faculty of Medicine, Saint Joseph University

Honors

2011	Ranked among first 10% in Medical School, Saint Joseph University
2004-2007	Dean's Honor List, Saint Joseph University – Faculty of Medicine
2004	Ranked third in Lebanon after the Lebanese baccalaureate national examination, Life Sciences Division. Earned a 7-year scholarship covering medical school expenses from the Lebanese Government as a result.

Research activity

Published/Accepted Papers

- 1- **Basma J**, Moore KA, Krisht K, Abuelem T, Arnautovic K, Michael LM, Aboud E, Krisht AF. Morphometric comparison of the pterional trans-sylvian and the pretemporal trans-clinoidal approaches to the posterior communicating artery. *Oper Neurosurgery*. 2020
- 2- **Basma J**, Krisht K, Krisht AF. Temporary clipping of the intracavernous internal carotid artery for proximal control. *Oper Neurosurgery* 2020.
- 3- **Basma J**, Guley N, Michael LM, Arnautovic KA, Boop FA, Sorenson JM. The evolutionary development of the brain as it pertains to neurosurgery. *Cureus*, Jan 2020
- 4- **Basma J**, Michael LM, Sorenson JM, Robertson JH. Deconstruction of the surgical approach to the jugular foramen region: anatomical study. *J Neurol Surg B Skull Base Part B*, Dec 2018
- 5- **Basma J**, Nguyen V, Mangham WM, Khan NR, Sorenson JM, Michael LM. Far lateral approach for clipping of a posterior inferior cerebellar artery aneurysm. *J Neurol Surg B Skull Base Part B*, Nov 2019
- 6- **Basma J**, Nguyen V, Sorenson J, Michael LM. Extended retrosigmoid approach for the resection of a pontomedullary junction cavernous malformation. *J Neurol Surg B Skull Base Part B*, Dec 2018
- 7- **Basma J**, Nguyen V, Sorenson J, Michael LM. Orbito-Pterional Approach with Extradural Clinoidectomy for the Resection of a Tuberculum Sellae Meningioma: Adapting the Strategy to the Microsurgical and Pathological Anatomy. *J Neurol Surg B Skull Base Part B*, Jan 2018
- 8- **Basma J**, Ryttefors M, Latini F, Pravdenkova S, Krisht A. Mobilization of the transcavernous oculomotor nerve during basilar aneurysm surgery: Biomechanical basis for better outcome *Neurosurgery*. 2014 Mar;10 Suppl 1:106-14
- 9- **Basma J**, Latini F, Ryttefors M, Abuelem T, Krisht A. Minimizing collateral brain injury using a protective layer of fibrin glue: technical note. *World Neurosurg*. 2015.
- 10- **Basma J**, Shafizadeh SF, Krisht AF. Skull base approaches to ventral and lateral brainstem: supratentorial approaches. *Contemp Neurosurg*. 2013 Dec;35:1-5
- 11- Taylor DT, **Basma J**, Jones GM, Lillard J, Wallace D, Ajmera S, Gienapp AJ, Michael LM. Predicting surgical intervention in cerebellar stroke: a quantitative retrospective analysis. *World Neurosurg*. Jun 2020.
- 12- Nguyen V, **Basma J**, Sorenson J, Michael M. Microvascular decompression for geniculate neuralgia through a retrosigmoid approach. *JNS Skull Base Part B*, Dec 2018
- 13- Nguyen V, **Basma J**, Klimo P, Sorenson J, Michael M. Orbito-Pterional Approach for the Resection of a Suprasellar Craniopharyngioma: Adapting the Strategy to the Microsurgical and Pathologic Anatomy. *JNS Skull Base Part B*, Jan 2018
- 14- Latini F, **Basma J**, Ryttefors M, Krisht A. Epidural approach for the microsurgical treatment of complex dural arterio-venous fistulas. *Acta Neurochir (Wien)*. 2014 Jan;156(1):93-5.
- 15- Michael LM, Nguyen V, **Basma J**, Mangham W, Khan NR, Sorenson JM. Far Lateral Approach

for Resection of Transverse Ligament Cyst. JNLS-B Skull Base, March 2020

- 16- Nguyen V, Mangham W, **Basma J**, Khan NR, Sorenson JM, Michael LM. Resection of a Recurrent Cervicomedullary Junction Fibromyxoid Sarcoma through a Far Lateral Approach. JNLS-B Skull Base, March 2020
- 17- Khan NR, Moore K, **Basma J**, Hersh DS, Choudhri AF, Vaughn B, Klimo P. Ischemic stroke following elective craniotomy in children. J Neurosurg Pediatr. 2018 Dec 21:1-8.
- 18- Effendi S, Momin E, **Basma J**, Michael LM, Duckworth, E. The ultimate skull base maneuver does not involve removing bone: quantifying the benefits of the interfascial dissection. J Neurol Surg B Skull Base Part B, Jan 2019
- 19- Ryttefjors M, Latini F, **Basma J**, Krisht AF. Intraoperative intratumoral embolization of a complex recurrent hemangiopericytoma: technical report and review of the literature. J Neurol Surg A Cent Eur Neurosurg. 2015.
- 20- Sebaaly A, **Basma J**, Raffoul L, Okais N, Rizk T, Samaha E, Moussa R. Prosepective study of microdiscectomy for lumbar disc herniation: evolution of pain, quality of life and satisfaction of Lebanese patients at short and long term follow-up. J Med Liban. 2014.

Abstract Oral Presentations

- 1- **Basma J**, Moore KA, Krisht K, Abuelem T, Arnautovic K, Michael LM, Krisht AF. Morphometric comparison of the pterional trans-sylvian and the pretemporal trans-clinoidal approaches to the posterior communicating artery: anatomical study. (*Oral presentation at the CNS meeting in San Francisco*)
- 2- **Basma J**, Portera MV, Gordon WE, Mangham W, Klimo P. Surgical management and classification of cerebello-medullary angle tumors in 90 pediatric patients. (*Oral presentation at the next CNS meeting in San Francisco*)
- 3- **Basma J**, Moore KA, Krisht K, Abuelem T, Arnautovic K, Michael LM, Krisht A. Morphometric comparison of the pterional trans-sylvian and the pretemporal trans-clinoidal approaches to the posterior communicating artery: anatomical study. (*Arkansas Neuroscience Institute Grand Opening, Little Rock, Jun 2019*)
- 4- **Basma J**, Portera MV, Gordon WE, Mangham W, Klimo P. Surgical management and classification of cerebello-medullary angle tumors in 90 pediatric patients: importance of the extended suboccipital approach. (*North American Skull Base Society 29th Annual Meeting, Orlando Feb 2019*)
- 5- **Basma J**, Khan N, Michael LM, Sorenson JM, Robertson JH. Tailoring the retro-auricular distal cervical trans-temporal approach to jugular foramen lesions: surgical triangles, anatomical classification and review of 30 cases. (*North American Skull Base Society 29th Annual Meeting, Orlando Feb 2019*)
- 6- **Basma J**, Nguyen V, Saad H, Michael M, Robertson J, Sorenson J. The Transverse Process of the Atlas as a focal point in organizing the postero-lateral external skull base. (*North American Skull Base Society 28th Annual Meeting, San Diego Feb 2018*)
- 7- **Basma J**, Sorenson JM, Michael LM, Robertson JH. A Novel Anatomical Systematization of the

Jugular Foramen and the Infratemporal Fossa: Triangles of the Lateral External Skull Base. (Tennessee Neurosurgical Society Meeting, July 2016, Nashville, Tennessee). **Earned the Best Resident Presentation Award.**

- 8- **Basma J**, Krisht A. Mobilization of the Transcavernous Oculomotor Nerve: Advantages for Wider Exposure and Better Outcome. (Eighth International Congress on Meningiomas and the Cerebral Venous System and the Third International Symposium on the Cavernous Sinus, Little Rock, Arkansas – Nov 2012)
- 9- Portera MV, **Basma J**, Klimo P. Tumors of the lateral cerebello-medullary angle: anatomical classification and retrospective analysis of 60 pediatric patients. (AANS/CNS Section on Pediatric Neurological Surgery 47th Annual Meeting in Nashville, Dec 2018)
- 10- Latini F, **Basma J**, Ryttefors M, Krisht AF. Biomechanical Bases to the Mobilization of the Transcavernous Oculomotor Nerve During Basilar Aneurysm Surgery. (European Skull Base Society Congress, 26 - 28 June 2014, Paris , France)
- 11- Latini F, **Basma J**. Epidural Skull Base Approach for Aggressive Dural ArterioVenous Fistulas (DAVF). (European Skull Base Society Congress, 26 - 28 June 2014, Paris , France).

Abstract Poster Presentations

- 1- **Basma J**, Anagnostopoulos C, Sorenson JM, Pichierri A. The transverse process of the atlas to the asterion line as an anatomical landmark: anatomical and radiographic study. (distinction award at NASBS meeting 2019)
- 2- **Basma J**, Krisht AF, Yasargil DC, Yasargil MG. Ball-tipped bipolar coagulation in the resection of challenging intracranial lesions: analysis of surgical advantages. (CNS meeting in San Francisco Oct 2019)
- 3- **Basma J**, Guley N, Michael M, Aranautovic K, Boop F, Sorenson J. Evolutionary Causal Forces Driving the Cerebral Design: Understanding the Four-Dimensional Anatomy of the Brain. AANS Meeting, New Orleans Apr 2018. **Won AANS poster third place award in the History section.**
- 4- **Basma J**, Michael M, Sorenson J, Robertson J. Morphometric Deconstruction of the Anatomy, Approaches and Angles of Attack to the Jugular Foramen, AANS Meeting, new Orleans Apr 2018
- 5- **Basma J**, Saad H, Abuelem T, Krisht AF. Posterior “Carotid Tip” Aneurysms Projecting in the Anterior Perforating Substance. AANS Meeting, new Orleans Apr 2018
- 6- Taylor DT, **Basma J**, et al. Predicting surgical intervention in patients with large acute cerebellar strokes. AANS meeting 2020.
- 7- Saad H, **Basma J**, Daabak KM, Aboud ET, Krish. Using the cavernous carotid for proximal control: a novel approach to temporary clipping (Digital poster presentation at the 2017 WFNS meeting)
- 8- Saad H, **Basma J**, Daabak KM, Aboud ET, Krish. Using the cavernous carotid for proximal control: a novel approach to temporary clipping (Digital poster presentation at the 2016 CNS meeting)
- 9- **Basma J**, Shafizadeh S, Moore N, Krisht A. Skull base approaches to the brainstem: quantitative

and comparative three-dimensional reconstruction of operative views to cranial nerve origins
(*Digital poster presentation at the 2013 CNS meeting*)

10- Neira R, Pena R, **Basma J**, Shafizadeh S, Pravdenkova S, Krisht A. Results of Modern Microsurgical Treatment of Anterior Choroidal Aneurysms Centered on Pathological Anatomy and Neck Remodeling (*Digital poster presentation at the 2013 CNS meeting*)

Book Chapters

- 1- **Basma J**, Mahoney D, Tudose A, Taylor DT, Sorenson JM. Anatomy of the brainstem. *In Pediatric Brainstem Surgery. Jallo et al.*
- 2- **Basma J**, Sorenson JM. Surgical anatomy of the posterior fossa. *In Skull Base Surgery of the Posterior Fossa. Couldwell et al.*
- 3- **Basma J**, Chuang J, Boop, F. Pediatric Intramedullary Spinal Cord Tumors. *In Spinal Cord Tumors. Gokaslan et al.*
- 4- **Basma J**, Nguyen V, Sorenson JM. Intracranial procedures in the supine, semi-sitting and sitting position. *In Positioning in Neurosurgery, Hamm et al.*
- 5- **Basma J**, Hoit D. Organization of the operating room for neurosurgical procedures. *In Positioning in Neurosurgery, Hamm et al.*
- 6- **Basma J**, Hamm W. Preanesthesia evaluation for the planned procedure. *In Positioning in Neurosurgery, Hamm et al.*
- 7- Sorenson JM, **Basma J**, Brown MT, Grande A, Robertson JH. Visualization and optics in neurosurgery, in Youmans and Winn Neurological Surgery 8e.
- 8- Vachani J, **Basma J**, Lawton M, Arthur A. Role of AANS Simulation Courses in Neurosurgical Residency and Fellowship Training, *in Simulation in Neurosurgery, Al Aaraj et al.*
- 9- Aboud ET, Aboud T, **Basma J**, Saad H, Wei Hsun Y, Aboud G, Krisht AF. Pseudo aneurysm surgery simulation using the live cadaver model. *In Textbook of Simulation in Healthcare: Neurosurgery.*