

# Curriculum Vitae: Academic

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*Abbreviated*



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## Amin Bardai Kassam, Doctor of Medicine

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### Education

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#### Postgraduate:

1996-1997	University of Ottawa Ottawa, Ontario, Canada	Course work completed towards Masters in Clinical Epidemiology
1992-1997	University of Ottawa Ottawa, Ontario, Canada	Neurological Surgery Residency Program Director: Charles Agbi, MD
1991-1992	Toronto Wellesley Hospital Toronto, Ontario, Canada	Surgical Internship Program Director: Allan Lossing, MD

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#### Graduate:

1987-1991	University of Toronto Toronto, Ontario, Canada	MD
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#### Undergraduate:

1985-1987	University of Toronto Toronto, Ontario, Canada	Major: Microbiology/Biochemistry (accepted early to Medical School prior to matriculation)
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### Appointments

#### Leadership:

2019-current	Chief Scientific Strategist, AdvocateAurora Healthcare
2014-current	Chairman, Department of Neurological Surgery, Aurora Medical Group
2013-current	Vice President Aurora Neurosciences Innovation Institute
2011-2013	Chief and Head of Division Neurological Surgery (interim), The Ottawa Hospital

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2009-2010	Medical Director Neuroscience Institute John Wayne Cancer Institute at Saint John's Health Center
2007-2009	Chairman Department of Neurological Surgery University of Pittsburgh School of Medicine
2006-2007	Interim Chairman Department of Neurological Surgery University of Pittsburgh School of Medicine
2002-2008	Director Minimally Invasive Endo Neurosurgery Centre (Service Line) University of Pittsburgh Medical Center

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## Academic:

2010-2013	Professor of Surgery (Neurological Surgery), University of Ottawa
2008-2009	Professor Department of Neurological Surgery University of Pittsburgh School of Medicine
2004-2008	Associate Professor (Secondary Appointment) Department of Otolaryngology University of Pittsburgh School of Medicine
2004-2008	Associate Professor (Tenure awarded February 1, 2007) Department of Neurological Surgery University of Pittsburgh School of Medicine
2000-2004	Assistant Professor (Joint Appointment) Department of Otolaryngology University of Pittsburgh School of Medicine
1998-2004	Assistant Professor Department of Neurological Surgery University of Pittsburgh School of Medicine
1997-1998	Visiting Instructor Department of Neurological Surgery University of Pittsburgh School of Medicine

## Non-Academic:

Available upon request.

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**Certification and Licensure****Specialty****Certification:**

August 28, 1996                      Royal College of Physicians and Surgeons of Canada

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**Medical Licensure:**

2013-present                      Medicine and Surgery, Wisconsin  
2009-present                      Medical Board of California  
1997-present                      Medical Physician and Surgeon, Commonwealth of Pennsylvania  
1992-present                      College of Physicians and Surgeons of Ontario  
1992-present                      Licentiate of Medical Council of Canada

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**Examination:**

1996 and 2006                      American Board of Neurological Surgery (Written)

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**Course Certifications:**

Available upon request.

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**Memberships in Professional and Scientific Societies**

2016-present                      Central Nervous System Tumors Track of ASCO's Scientific Program Committee  
2008-present                      International Meningioma Society  
2007-present                      Society for Neuro-Oncology  
2004-present                      European Skull Base Society  
2002-2006                      International College of Surgeons  
1999-present                      North American Skull Base Society  
1999-present                      Congress of Neurological Surgeons  
1999-present                      American Association of Neurological Surgeons  
1996-present                      Royal College of Physicians & Surgeons of Canada  
1994-present                      College of Physicians and Surgeons of Ontario

**Honors (selected)**

2019                      Honored Guest, Royal College of Surgeons, Thai Neurosurgical Society, Bangkok, Thailand  
  
2018                      Honored Guest, Argentina Skull Base Society, Buenos Aires, Argentina

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- 2016 Co-Chair of 7<sup>th</sup> World Congress of Endoscopic Surgery of Brain, Skull Base, and Spine
- 2012 Chair of the Division of Skull Base Surgery, Walter E. Dandy Neurosurgical
- 2012 Honored Guest Endo Vienna: 5<sup>th</sup> World Congress of Endoscopic Skull Base Surgery Society
- 2011 Presidents Citation Award Combined European Society, Barcelona Spain
- 2010 Honored Guest Asian Pacific Congress of Neurological Surgeons
- 2010 Ginde Oration, Bombay Hospital
- 2007 Honored Guest, Annual Meeting of the Société de Neurochirurgie de Langue Française (SNCLF) Paris, France
- 2007 Department of Neurological Surgery Annual Award for Faculty Teaching University of Pittsburgh School of Medicine
- 2007 Penfield Lecturer, Canadian Neurosurgical Society
- 2007, 2008, 2009 “Top Doctor”, *Pittsburgh Magazine*
- 2006 (cover story) “Top Doctor”, *Pittsburgh Magazine*
- 2006 Third International “Endoscopic Award”, Beijing Neurosurgical Institute
- 2006 Interurban Neurosurgical Society Lecturer
- 2005 Award for the Best Paper in eHealth: Applications of Telemedicine in the Operating Room, International Conference on Telemedicine and Multi-media Communication
- 2005 Co-Chair, 1<sup>st</sup> World Congress for Endoscopic Surgery of the Brain, Skull Base, and Spine
- 2005 President’s Invited Lecture, International Society of Pediatric Neurosurgeons
- 2005, 2006 Best Doctors in America
- 2005 Guest Editor, *Neurological Focus*
- 2004 Masters in Neurosurgery, Congress of Neurological Surgeons
- 2004 M.T. Richard Lecturer, University of Ottawa
- 2004 Hitselberger Lecturer, American Academy of Otolaryngology-Head and Neck Surgery
- 2003 Merit Award Ismaili Health Association, Aga Khan Health Board (U.S.A.)
- 2001 Summa Cum Laude Citation, American Society of Neuroradiology 39<sup>th</sup> Annual Scientific Meeting
- 2000 Above & Beyond Program, University of Pittsburgh Medical Center-Presbyterian Hospital
- 1991 Track Scholarship in Surgery, University of Toronto, Faculty of Medicine
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1990	George Brown Memorial Award for Research, University of Toronto, Faculty of Medicine
1988	American Assoc. of Neurology Experimental Research Competition
1988	Gold Medalist, Princeton Model United Nations Competition
1985	Ontario Scholar
1985	Canadian Achievement Award
1985	Aga Khan Academic Scholarship
1985	Frederick Urghart Academic Scholarship

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## Publication Impact Score

Citations	15,596
Research Gate (RG) Score	46.82 (98 <sup>th</sup> Percentile)
Hirsch Index (h-index)	64
Link to RG Profile	<a href="https://www.researchgate.net/profile/Amin_Kassam">https://www.researchgate.net/profile/Amin_Kassam</a>
Link to LinkedIn Profile	<a href="https://www.linkedin.com/in/amin-kassam-md-a5198219/">https://www.linkedin.com/in/amin-kassam-md-a5198219/</a>

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## Publications

### Peer Reviewed Journal Articles

1. Juan Antonio Simal-Julián, Pablo Miranda-Lloret, Laila Pérez de San Román Mena, Pablo Sanromán-Álvarez, Alfonso García-Piñero, Rosa Sanchis-Martín, Carlos Botella-Asunción, **Amin Kassam**. *Impact of Multilayer Vascularized Reconstruction after Skull Base Endoscopic Endonasal Approaches*. J Neurol Surg B. February 2019. doi:10.1055/s-0039-1677705.
2. Srikant S. Chakravarthi, **Amin B. Kassam**, Melanie B. Fukui, Alejandro Monroy-Sosa, Nichelle Rothong, Joseph Cunningham, Jonathan E. Jennings, Neil Guenther, Jeremy Connelly, Tobias Kaemmerer, Kenneth C. Nash, Mark Lindsay, Janie Rissell, Juanita M. Celix, Richard A. Rovin. *Awake surgical management of third ventricular tumors: A preliminary safety, feasibility, and clinical applications study*. Oper Neurosurg (Hagerstown), 2019 Feb 12. doi: 10.1093/ons/opy405
3. Alejandro Monroy-Sosa, Jonathan Jennings, Srikant S. Chakravarthi, Melanie B. Fukui, Juanita M. Celix, Nathaniel Kojis, Mark Lindsay, Richard Rovin, **Amin B. Kassam**. *In reply: Microsurgical anatomy of the vertical rami of the superior longitudinal fasciculus: An intraparietal dissection study*. Oper Neurosurg (Hagerstown). 2019 Feb 1;16(2):75-77. doi.org/10.1093/ons/opy339
4. Alessandro Weiss, Paolo Perrini, Matteo De Notaris, Guadalupe Soria, Alarcon Carlos, Maura Castagna, Lodovico Lutzemberger, Orazio Santo Santonocito, Giuseppe Catapano, **Amin Kassam**, Alberto Prats-Galino, A. *Endoscopic Endonasal Transclival Approach to the Ventral Brainstem: Anatomic Study of the Safe Entry Zones Combining Fiber Dissection Technique with 7 Tesla Magnetic Resonance Guided Neuronavigation*. Oper Neurosurg (Hagerstown). 2019;16(2):239-249. doi:10.1093/ons/opy080.

5. Kessarín Panichpísal, Maharaj Singh, Adil Chohan, Paul Vilar, Reji Babygirija, Mary Hook, Sharon Matyas, Nathaniel Kojis, Rehan Sajjad, Thomas Wolfe, **Amin Kassam**, and Richard Adam Rovin. *Validation of Stroke Network of Wisconsin Scale at Aurora Health Care System*. *J Vasc Interv Neurol*. 2018;10(2):69-73. PMID: PMC6350874
6. Danielle Warner, Bryan Schwartz, Reji Babygirija, Richard Rovin, **Amin Kassam**, Lindsay Biddick, Rehan Sajjad, Adil Chohan, Kessarín Panichpísal. *Thrombolysis After Protamine Reversal of Heparin for Acute Ischemic Stroke After Cardiac Catheterization: Case Report and Literature Review*. *Neurologist*. 2018;23(6):194-196. doi:10.1097/NRL.000000000000204.
7. Srikant Chakravarthi, Alejandro Monroy-Sosa, Melanie B. Fukui, Lior Gonen, Thomas Wolfe, Thomas Gardner, Jonathan Jennings, Juanita Celix, Richard A Rovin, **Amin B. Kassam**. (2018). *Robotically-operated video optical telescopic (ROVOT-m) resection of an arteriovenous malformation with port- assisted intraoperative surgical devascularization: 2-Dimensional Operative Video*. *Oper Neurosurgery (Hagerstown)*. 2018 Sep 1;15(3):350-351. doi: 10.1093/ons/oxp267.
8. George Bobustuc, **Amin B. Kassam**, Richard Rovin, Sheila Jeudy, Joshua Smith, Beth Isley, Maharaj Singh, Ameya Paranjpe, Kalkunte Srivenugopal, Santhi Konduri. (2018). *MGMT Inhibition in ER Positive Breast Cancer leads to CDC2, TOP2A, AURKB, CDC20, KIF20A, Cyclin A2, Cyclin B2, Cyclin D1, ERα and Survivin Inhibition and Enhances Response to Temozolomide*. *Oncotarget*. Jul 3;9(51):29727-29742. eCollection 2018 Jul 3. doi: 10.18632/oncotarget.25696.
9. Srikant Chakravarthi, Alejandro Monroy-Sosa, Lior Gonen, Melanie Fukui, Nathaniel Kojis, Mark Lindsay, Sammy Khalili, Juanita Celix, Richard Rovin, Martin Corsten, **Amin Kassam**. (2018). *Re-analyzing the “Far Medial” (Transcondylar – Transtubercular) Approach Based on Three Anatomical Vectors: The Ventral Posterolateral Corridor*. *Journal of Neurosurgical Sciences*. Jun;62(3):347-355. doi: 10.23736/S0390-5616.18.04356-4.
10. Srikant S. Chakravarthi, Lior Gonen, A Monroy-Sosa, Sammy Khalili, **Amin B. Kassam**. (2017). *Endoscopic reconstructive methods of the anterior skull base*. *Seminars in Plastic Surgery*. Nov;31(4):203-213. doi: 10.1055/s-0037-1607274.
11. Srikant Chakravarthi, Srivathsa Veeraraghavan, Melanie Fukui, Jonathan Jennings, Richard Rovin, **Amin B. Kassam**. (2017). *Diagnostic Dilemma: An Unusual Case of Primary Intracranial, Intraparenchymal Epithelioid Hemangioma*. *J Neurol Stroke*. 2018;8(5):263–265. DOI: 10.15406/jnsk.2018.08.00322
12. Alejandro Monroy-Sosa, Jonathan E. Jennings, Srikant Chakravarthi, Melanie Fukui, Juanita Celix, Sarika Walia, Richard Rovin, **Amin Kassam**. (2017). *Microsurgical anatomy of the vertical rami of the superior longitudinal fasciculus: An intraparietal dissection study*. *Operative Neurosurgery*. 2018 Jun 5. doi: 10.1093/ons/opy077.
13. Akshay Sharma, Gabrielle E. Reith, Joseph E. Tanenbaum, James S. Williams, Nakao Ota, Srikant Chakravarthi, Sunil Manjila, **Amin Kassam**, Bulent Yapticilar (2017). *A morphometric survey of the parasellar region in more than 2700 skulls: emphasis on the middle clinoid process variants and implications in endoscopic and microsurgical approaches*. *Journal of Neurosurgery*, 2018 Jul;129(1):60-70. doi: 10.3171/2017.2.JNS162114.
14. Jonathan E. Jennings, **Amin B. Kassam**, Melanie Fukui, Srikant Chakravarthi, Alejandro Monroy-Sosa, Richard Rovin. *The Surgical White Matter Chassis: A Practical 3-D Atlas for*



- Planning Subcortical Surgical Trajectories*. Oper Neurosurgery (Hagerstown). 2018 May 1;14(5):469-482. doi: 10.1093/ons/oxp177.
15. **Amin B. Kassam**, Richard A. Rovin, Sarika Walia, Srikant Chakravarthi, Juanita Celix, Jonathan E. Jennings, Sammy Khalili, Lior Gonen, Alejandro Monroy-Sosa, Melanie Fukui. *The Operating Room of the Future vs. The Future of the Operating Room*. Otolaryngologic Clinics of North America. Amsterdam: Elsevier/Academic Press; 2017. Jun;50(3):655-671. doi: 10.1016/j.otc.2017.01.016.
  16. Lior Gonen, Srikant Chakravarthi, Alejandro Monroy-Sosa, Juanita Celix, Nathaniel Kojis, Maharaj Singh, Jonathan Jennings, Melanie B. Fukui, Richard Rovin, **Amin B. Kassam**. *Initial experience with a robotically-operated video optical telescopic microscope in cranial neurosurgery: feasibility, safety, and clinical applications*. Neurosurg Focus. May;42(5):E9. doi: 10.3171/2017.3.FOCUS1712
  17. Srikant S. Chakravarthi, Anthony Zbacnik, Jonathan Jennings, Melanie B. Fukui, Nathaniel Kojis, Richard A. Rovin, **Amin B. Kassam**. *White matter tract recovery following medial temporal lobectomy and selective amygdalohippocampectomy for tumor resection via a ROVOT-m port-guided technique: A case report and review of literature*. Interdisciplinary Neurosurgery. 2016;6:55-61. doi:10.1016/j.inat.2016.07.004.
  18. Zev A. Binder, Kelli M. Wilson, Vafi Salmasi, Brent A. Orr, Charles G. Eberhart, I-Mei Siu, Michael Lim, Jon D. Weingart, Alfredo Quinones-Hinojosa, Chetan Bettgowda, **Amin B. Kassam**, Alessandro Olivi, Henry Brem, Gregory J. Riggins, Gary L. Gallia. *Establishment and Biological Characterization of a Panel of Glioblastoma Multiforme (GBM) and GBM Variant Oncosphere Cell Lines*. PLoS ONE. 2016;11(3):e0150271. doi:10.1371/journal.pone.0150271.
  19. Mohamed A. Labib, Mitesh Shah, **Amin B. Kassam**, Ronald Young, Lloyd Zucker, Anthony Maioriello, Gavin Britz, Charles Agbi, JD Day, Gary Gallia, Robert Kerr, Gustavo Pradilla, Richard Rovin, Charles Kulwin, Julian Bailes. *The Safety and Feasibility of Image-Guided BrainPath-Mediated Transsulcal Hematoma Evacuation: A Multicenter Study*. Neurosurgery. 2017;80(4):515-524. doi:10.1227/NEU.0000000000001316.
  20. Javed Khader Eliyas, Ryan Glynn, Charles G. Kulwin, Richard Rovin, Ronald Young, Juan Alzate, Gustavo Pradilla, Mitesh V. Shah, **Amin Kassam**, Ivan Ciric, Julian Bailes. *Minimally-invasive trans-sulcal resection of Intra-ventricular and Peri-ventricular lesions through a tubular retractor system: Multi-centric experience and results*. World Neurosurgery 01/2016; DOI:10.1016/j.wneu.2015.12.100
  21. Daniel M. Prevedello, Leo F.S. Ditzel Filho, Juan C. Fernandez-Miranda, Domenico Solari, Marcelo Prudente do Espírito Santo, Allison M. Wehr, Ricardo L. Carrau, **Amin B. Kassam**. *Magnetic Resonance imaging fluid-attenuated inversion recovery sequence signal reduction after endoscopic endonasal transcribiform total resection of olfactory groove meningiomas* Surg Neurol Int. 2015 Oct 7;6:158. doi: 10.4103/2152-7806.166846. eCollection 2015.
  22. Dae-Hee Lee, Ying Zhang, **Amin B Kassam**, Myung-Jin Park, Paul Gardner, Daniel Prevedello, Stephanie Henry, Craig Horbinski, Jan H Beumer, Hussein Tawbi, Brian J Williams, Mark E Shaffrey, Merrill J Egorin, Roger Abounader, Deric M Park: *Combined PDGFR and HDAC inhibition overcomes PTEN disruption in Chordoma*. PLoS ONE 08/2015; 10(8). DOI:10.1371/journal.pone.0134426

23. Daniel M. Prevedello, Domenico Solari, Ricardo L. Carrau, Paul Gardner, **Amin B. Kassam**: *Endoscopic Endonasal Approach for Craniopharyngiomas*. Volume 26, Issue 3, July 2015, Pages 363–375, doi:10.1016/j.nec.2015.03.013
24. Daniela Iancu, Cheemum Lum, Muhammad E Ahmed, Rafael Glikstein, Marlise P Dos Santos, Howard Lesiuk, Mohamed Labib, and **Amin B Kassam**: *Flow diversion in the treatment of carotid injury and carotid-cavernous fistula after transsphenoidal surgery*. *Interventional Neuroradiology* 05/2015; 21(3). DOI:10.1177/1591019915582367
25. **Amin B. Kassam**, Mohamed A. Labib, Mohammed Bafaquh, Diana Ghinda, Joseph Mark, David Houlden, Melanie B. Fukui, Thanh Nguyen, Martin Corsten, Cameron Piron, Richard Rovin: *Part I: The challenge of functional preservation: an integrated systems approach using diffusion-weighted, image-guided, exoscopic-assisted, transulcal radial corridors*. *Innovative Neurosurgery*. 01/2015; DOI:10.1515/ins-2014-0011
26. **Amin B. Kassam**, Mohamed A. Labib, Mohammed Bafaquh, Diana Ghinda, Melanie B. Fukui, Thanh Nguyen, and Martin Corsten: *Part II: an evaluation of an integrated systems approach using diffusion-weighted, image-guided, exoscopic-assisted, transulcal radial corridors*. *Innovative Neurosurgery*. 01/2015; DOI:10.1515/ins-2014-0012
27. Danielle de Lara, Leo F S Ditzel Filho, Daniel M Prevedello, Ricardo L Carrau, Pornthep Kasemsiri, Bradley A Otto, **Amin B Kassam**: *Endonasal Endoscopic Approaches to the Paramedian Skull Base*. *World Neurosurgery* 12/2014; 82(6S). DOI:10.1016/j.wneu.2014.07.036
28. Pornthep Kasemsiri, Ricardo L Carrau, Leo F S Ditzel Filho, Daniel M Prevedello, Bradley A Otto, Matthew Old, Danielle de Lara, **Amin B Kassam**: *Advantages and Limitations of Endoscopic Endonasal Approaches to the Skull Base*. *World Neurosurgery* 12/2014; 82(6S). DOI:10.1016/j.wneu.2014.07.022
29. Alexander Gont, Jennifer E L Hanson, Sylvie J Lavictoire, Manijeh Daneshmand, Garth Nicholas, John Woulfe, **Amin Kassam**, Vasco F Da Silva, Ian A.J. Lorimer: *Inhibition of glioblastoma malignancy by Lgl1*. *Oncotarget* 10/2014; 5(22). DOI:10.18632/oncotarget.2580
30. Benjamin Ritsma, **Amin Kassam**, Dariush Dowlatsahi, Thanh Nguyen, Grant Stotts: *Minimally Invasive Subcortical Parafascicular Transsulcal Access for Clot Evacuation (Mi SPACE) for Intracerebral Hemorrhage*. 08/2014; 2014. DOI:10.1155/2014/102307
31. D Bresson, N McLaughlin, L F S Ditzel Filho, C F Griffiths, R L Carrau, D F Kelly, and **A.B. Kassam**: *Endoscopic endonasal approach for the treatment of schwannomas of the pterygopalatine fossa: Case report and review of the literature*. *Neurochirurgie* 06/2014; 60(4). DOI:10.1016/j.neuchi.2014.03.009
32. Juan Antonio Simal-Julián, Pablo Miranda-Lloret, Carlos Botella-Asunción, and **Amin Kassam**: *Erratum to: Full endoscopic endonasal expanded approach to the petroclival region: optimizing the carotid-clival window*. *Acta Neurochirurgica* 06/2014; 156(10). DOI:10.1007/s00701-014-2154-1
33. Sung-Joo Yuh, John Woulfe, Martin J Corsten, Ricardo L Carrau, Daniel M Prevedello, **Amin B Kassam**: *Diagnostic Imaging Dilemma of a Clival Lesion and Its Clinical Management Implications*. *Journal of Neurological Surgery, Part B: Skull Base* 06/2014; 75(3). DOI:10.1055/s-0033-1363171

34. Mohamed A Labib, Daniel M Prevedello, Ricardo Carrau, Edward E Kerr, Cristian Naudy, Hussam Abou-Al Shaar, Martin Corsten, **Amin Kassam**: *A Road Map to the Internal Carotid Artery in Expanded Endoscopic Endonasal Approaches to the Ventral Cranial Base*. *Neurosurgery* 04/2014; 10. DOI:10.1227/NEU.0000000000000362
35. Kasemsiri Pornthep, Prevedello Daniel M, Otto Bradley A, Old Matthew, Filho Leo F Ditzel, Teknos Ted, Ozer Enver, Agrawal Amit, **Kassam Amin B**, Carrau Ricardo L: *Surgical Treatment of Nasopharyngeal Malignancies: Role of Endoscopic Endonasal Approaches*. 01/2014; DOI:10.15383/jnpc.14
36. D. Bresson, N. McLaughlin, L.F.S. Ditzel Filho, C.F. Griffiths, R.L. Carrau, D.F. Kelly, **A.B. Kassam**: *Endoscopic endonasal approach for the treatment of schwannomas of the pterygopalatine fossa: Case report and review of the literature*. DOI:10.1016/j.neuchi.2014.03.009
37. Carlos Alarcon, Matteo de Notaris, Kenneth Palma, Guadalupe Soria, Alessandro Weiss, **Amin Kassam**, Alberto Prats-Galino: *Anatomic Study of the Central Core of the Cerebrum Correlating 7-T Magnetic Resonance Imaging and Fiber Dissection With the Aid of a Neuronavigation System*. *Neurosurgery* 12/2013; 10. DOI:10.1227/NEU.0000000000000271
38. David A Houlden, Chantal A Turgeon, Thomas Polis, John Sinclair, Stuart Coupland, Pierre Bourque, Martin Corsten, and **Amin Kassam**: *Intraoperative flash VEPs are reproducible in the presence of low amplitude EEG*. *International Journal of Clinical Monitoring and Computing* 11/2013; 28(3). DOI:10.1007/s10877-013-9532-8
39. Pornthep Kasemsiri, Daniel Monte Serrat Prevedello, Bradley Alan Otto, Matthew Old, Leo Ditzel Filho, **Amin Bardai Kassam**, and Ricardo Luis Carrau: *Endoscopic endonasal technique: Treatment of paranasal and anterior skull base malignancies*. *Brazilian journal of otorhinolaryngology* 11/2013; 79(6). DOI:10.5935/1808-8694.20130138
40. Alexander Gont, Jennifer E L Hanson, Sylvie J Lavictoire, Doris A E Parolin, Manijeh Daneshmand, Ian J Restall, Mathieu Soucie, Garth Nicholas, John Woulfe, **Amin Kassam**, Vasco F Da Silva, Ian AJ Lorimer: *PTEN loss represses glioblastoma tumor initiating cell differentiation via inactivation of Lgl1*. *Oncotarget* 07/2013; 4(8). DOI:10.18632/oncotarget.1164
41. Srinivas Bulusu, **Amin B Kassam**, David A Houlden, and Fahad Alkherayf: *Intraoperative neurophysiological monitoring during circulatory arrest using deep hypothermia: A case report during brain aneurysm clipping*. *The Neurodiagnostic journal* 06/2013; 53(2).
42. Brian J Williams, Daniel M S Raper, Erin Godbout, T David Bourne, Daniel M Prevedello, **Amin B Kassam**, Deric M Park: *Diagnosis and Treatment of Chordoma*. *Journal of the National Comprehensive Cancer Network: JNCCN* 06/2013; 11(6).
43. Pornthep Kasemsiri, C Arturo Solares, Ricardo L Carrau, J Drew Prosser, Daniel M Prevedello, Bradley A Otto, Matthew Old, **Amin B Kassam**: *Endoscopic endonasal transpterygoid approaches: Anatomical landmarks for planning the surgical corridor*. *The Laryngoscope* 04/2013; 123(4). DOI:10.1002/lary.23697
44. Nancy McLaughlin, Ricardo L Carrau, Daniel F Kelly, Daniel M Prevedello, and **Amin B Kassam**: *Teamwork in skull base surgery: An avenue for improvement in patient care*. *Surgical Neurology International* 03/2013; 4(1). DOI:10.4103/2152-7806.109527

45. Arnau Benet, Daniel M Prevedello, Ricardo L Carrau, Jordina Rincon-Torroella, Juan C Fernandez-Miranda, Alberto Prats-Galino, **Amin B Kassam**: *Comparative Analysis of the Transcranial "Far Lateral" and Endoscopic Endonasal "Far Medial" Approaches: Surgical Anatomy and Clinical Illustration*. *World Neurosurgery* 01/2013; 81(2). DOI:10.1016/j.wneu.2013.01.091
46. Leo F. S. Ditzel Filho, Nancy McLaughlin, Damien Bresson, Domenico Solari, **Amin B Kassam**, Daniel F Kelly: *The Supraorbital Eyebrow Craniotomy for Removal of Intra-axial Frontal Brain Tumors: A Technical Note*. *World Neurosurgery* 01/2013; 81(2). DOI:10.1016/j.wneu.2012.11.051
47. Martin Corsten, **Amin Kassam**, Dakheel Al-Mutairi, Ricardo Carrau, and Daniel Prevedello: *Reverse Harvesting Sequence of Nasoseptal Flaps During Endoscopic Skull Base Surgery: Technical Modification to Deal With the Severe Septal Spur*. *The Laryngoscope* 01/2013; 123(1). DOI:10.1002/lary.23624
48. Mohamed Ahmed Labib, Daniel M Prevedello, Juan C Fernandez-Miranda, Sanan Sivakanthan, Arnau Benet, Victor Morera, Ricardo Carrau, **Amin Kassam**: *The Medial Opticocarotid Recess: An Anatomic Study of an Endoscopic "Key Landmark" for the Ventral Cranial Base*. *Neurosurgery* 12/2012; 72(1 Suppl Operative). DOI:10.1227/NEU.0b013e318271f614
49. Nancy McLaughlin, Daniel F Kelly, Daniel M Prevedello, Ricardo L Carrau, and **Amin B Kassam**: *Hemostasis Management during Completely Endoscopic Removal of a Highly Vascular Intraparenchymal Brain Tumor: Technique Assessment*. *Journal of Neurological Surgery. Part A: Central European Neurosurgery* 10/2012; 75(1). DOI:10.1055/s-0032-1325631
50. Nancy McLaughlin, Ricardo L Carrau, **Amin B Kassam**, Daniel F Kelly: *Neuronavigation in Endonasal Pituitary and Skull Base Surgery Using an Autoregistration Mask without Head Fixation: An Assessment of Accuracy and Practicality*. *Journal of Neurological Surgery. Part A: Central European Neurosurgery* 10/2012; 73(6). DOI:10.1055/s-0032-1326943
51. Nancy McLaughlin, Daniel F Kelly, Daniel M Prevedello, Kiarash Shahlaie, Ricardo L Carrau, **Amin B Kassam**: *Endoscopic Endonasal Management of Recurrent Petrous Apex Cholesterol Granuloma*. *Journal of Neurological Surgery, Part B: Skull Base* 06/2012; 73(3). DOI:10.1055/s-0032-1312706
52. Maria Koutourousiou, Paul A Gardner, Matthew J Tormenti, Stephanie L Henry, Susan T Stefko, **Amin B Kassam**, Juan C Fernandez-Miranda, Carl H Snyderman: *Endoscopic Endonasal Approach for Resection of Cranial Base Chordomas: Outcomes and Learning Curve*. *Neurosurgery* 05/2012; 71(3). DOI:10.1227/NEU.0b013e31825ea3e0
53. Pornthep Kasemsiri, Ricardo L Carrau, Daniel M Prevedello, Leo FS Ditzel Filho, Danielle de Lara, Bradley A Otto, and **Amin B Kassam**: *Indications and limitations of endoscopic skull base surgery*. *Future Neurology* 05/2012; 7(3). DOI:10.2217/fnl.12.22
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### Response

- a) Monroy-Sosa A, Chakravarthi SS, Fukui M, Rovin RA, **Kassam A.** (2018). In reply: Microsurgical anatomy of the vertical rami of the superior longitudinal fasciculus: An intraparietal dissection study. *Operative Neurosurgery*. ACCEPTED. In Press.
  - b) Chakravarthi S, Rovin R, **Kassam A.** (2018). Letter: Microsurgical Clipping of an Anterior Communicating Artery Aneurysm Using a Novel Robotic Visualization Tool in Lieu of the Binocular Operating Microscope: Operative Video. *Operative Neurosurgery*. Sep 1;15(3):E28. doi: 10.1093/ons/opy076.
  - c) **Amin Kassam**, Mohamed A Labib, Daniel M Prevedello, Ricardo Carrau: *In Reply: An Endoscopic Roadmap of the Internal Carotid Artery*. *Neurosurgery* 06/2015; 77(1). DOI:10.1227/NEU.0000000000000770
  - d) Daniel M. Prevedello, Ricardo L. Carrau, **Amin B. Kassam**: *Endoscopic endonasal surgery Response*. *Journal of Neurosurgery* 06/2011; 114(6).
  - e) Emiro Caicedo-Granados, Ricardo Carrau, **Amin Kassam**, Carl H Snyderman, Daniel Prevedello, Juan Fernandez-Miranda, Paul Gardner: *In Response to Pedicled Nasoseptal Flap Is Not the Standard of Care for Skull Base Defects*. *The Laryngoscope* 04/2011; 121(4). DOI:10.1002/lary.21552
  - f) Prevedello, Daniel M.D., Carrau, Ricardo L. M.D., **Kassam, Amin B. M.D.** Endoscopic endonasal surgery. Department of Neurological Surgery, The Ohio State University, Columbus, Ohio; Neuroscience Institute, John Wayne Cancer Institute at Saint John's Health System, Santa Monica, California; and University of Ottawa, Ontario, Canada. This paper: published online December 17, 2010; DOI: 10.3171/2010.6.JNS10691.
  - g) **Kassam, Amin B. M.D.**, Prevedello, Daniel M. M.D., Gardner, Paul A M.D. Endonasal resection of craniopharyngiomas. Division of Neurosurgery. The University of Toronto and the Hospital for Sick Children, Toronto, Ontario, Canada. *J Neurosurg* 109:1–5, 2008.
  - h) Welch, William C., **Kassam, Amin.** Preoperative Evaluation of Neurovascular Compression in Patients with Trigeminal Neuralgia by Use of Three-dimensional Reconstruction from Two Types of High-Resolution Magnetic Resonance Imaging. *Neurosurgery* 40:958–964, 1997.
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### Conference Proceedings

1. Diana Ghinda, M. Labib, M. Bafaquh, C. Agbi, **A. Kassam**: *A Transulcul Exoscopic Radial Corridor Approach for the Management of Primary Intracranial Hemorrhage*. Congress of Neurological Surgeons., San Francisco, US; 10/2013
2. Diana Ghinda, M. Labib, M. Bafaquh, C. Agbi, **A. Kassam**: *The Diffusion Tensor Imaging (DTI) Guided Transulcul Exoscopic Radial Corridor Approach for the Resection of Lesions in the Sensorimotor Area*. Congress of Neurological Surgeons., San Francisco, US; 10/2013
3. Arnau Benet, Daniel Prevedello, Jordina Rincon-Torroella, Ricardo Carrau, J.C. Fernandez-Miranda, L. Ditzel Filho, Alberto Prats-Galino, **Amin Kassam**: *Comparative analysis of the transcranial "far lateral" versus the endoscopic endonasal "far medial" approach: surgical anatomy and clinical illustration..* 22nd Annual North American Skull Base Society Meeting (NASBS).; 02/2012
4. Matthew J. Tormenti, Ricky Madhok, Riccardo Carrau, Carl H. Snyderman, **Amin B. Kassam**, Paul A. Gardner: *Endoscopic Endonasal Resection of the Odontoid Process-Clinical Outcomes*. AANS Annual Meeting 2010; 08/2010
5. Akio Soeda, Myung-Jin Park, Dae-Hee Lee, Arlan Mintz, Johnathan Engh, Toru Iwama, Takahiro Kunisada, Ian F. Pollack, **Amin B. Kassam**, Deric M. Park: *A Single CD133-Positive Cell is capable of producing Glioma population diversity*. 3rd Quadrennial Meeting of the World-Federation-of-Neuro-Oncology/6th; 12/2009
6. Akio Soeda, Dae-Hee Lee, Arlan H. Mintz, Johnathan A. Engh, Ian F. Pollack, **Amin B. Kassam**, Deric M. Park: *Inhibition of p38a/b promotes self-renewal of Human Glioma Stem Cells by enhancing expression of egfr and cd133*. Joint Meeting of the; 10/2009
7. Hideho Okada, Frank S. Lieberman, Pawel Kalinski, L. Dade Lunsford, **Amin Kassam**, Arlan H. Mintz, David L. Bartlett, Charles K. Brown, Herbert Zeh, Theresa L. Whiteside, Lisa H. Butterfield, Ronald L. Hamilton, Andres M. Salazar, Ian F. Pollack: *Type 1 Dendritic Cell (dc) vaccines in combination with poly-iclc in participants with recurrent malignant glioma*. 17th International Conference on Brain Tumor Research and Therapy; 04/2009
8. Sheila A. Alexander, Leslie Hoffman, Dianxu Ren, Yvette Conley, Samuel M. Poloyac, Jeffrey Balzer, **Amin Kassam**, Matthew Gallek: *No pathway biomarkrrs of cv after sah*. 38th Critical Care Congress of the Society-of-Critical-Care-Medicine; 12/2008
9. Elizabeth Crago, P. Sherwood, J. Kuo, A. Hricik, M. Horowitz, **A. Kassam**, S. Poloyac: *Cerebrospinal fluid 20-hete is associated with poor neuropsychological outcomes after aneurysmal subarachnoid hemorrhage*. 38th Critical Care Congress of the Society-of-Critical-Care-Medicine; 12/2008
10. Myung-Jin Park, **Amin Kassam**, Paul Gardner, Daniel M. Prevedello, Akio Soeda, Frank Lieberman, Andrew Rosenberg, Deric M. Park: *Platelet-Derived Growth Factor stimulates Chordoma growth and invasion by activating the pi3k/akt/mTOR signaling pathway*. 13th Annual Meeting of the Society-for-Neuro-Oncology (SNO); 10/2008
11. Hideho Okada, Frank Lieberman, Pawel Kalinski, Xinmei Zhu, L. Dade Lunsford, **Amin Kassam**, Arlan Mintz, David Bartlett, Charles Brown, Herbert Zeh, Theresa Whiteside, Lisa Butterfield, Ronald Hamilton, Andres Salazar, Ian Pollack: *Vaccination with type-1 dendritic cells pulsed with multiple glioma-associated antigen peptides in combination with POLY-ICLC*

- in patients with recurrent malignant glioma.* 12th Annual Meeting of the Society-for-Neuro-Oncology; 10/2007
12. B. Liu, R.J. Scwabassi, Q. Liu, **A. Kassam**, C.-C. Li, M. Sun: *Automatic tracking of region of interest in neurosurgical video.* Bioengineering Conference, 2005. Proceedings of the IEEE 31st Annual Northeast; 05/2005
  13. Mingui Sun, Qiang Liu, Jian Xu, Bing Liu, Chengquan Hu, **A. Kassam**, R.J. Scwabassi: *A multimedia system for remote neurosurgical monitoring.* Intelligent Signal Processing and Communication Systems, 2004. ISPACS 2004. Proceedings of 2004 International Symposium on; 12/2004
  14. U Duvvuri, RL Carrau, LA Zimmer, CH Snyderman, **AB Kassam**: *Minimally invasive approach for the resection of esthesioneuroblastoma.* 3rd International Chicago Symposium on Malignancies of the Chest and; 10/2004
  15. EA Crago, Y Kong, M Kerr, H Yonas, M Horowitz, **A Kassam**: *Relationship between aneurysm site and outcomes following subarachnoid hemorrhage.* 33rd Critical Care Congress of the Society-of-Critical-Care-Medicine; 12/2003
  16. Stephen Thomas, **Amin Kassam**, William Edward Rothfus: *Neuroimaging of Endonasal Skullbase Surgery: An Expanding Frontier.* Radiological Society of North America 2006 Scientific Assembly and Annual Meeting;
  17. Yonas H, Jungreis C, Fukui M, Wechsler L, Goldstein S, Gebel J, **Kassam AB**. Emergent stroke evaluation: CT/CT angiography/Xenon CT. Proceedings of the American Society of Neuroradiology, 1999
  18. Fukui M, Jungreis C, **Kassam AB**, Gebel J, Ashton C, Karakus A, Yonas H. Xenon computed tomography as a means to predict outcome from spontaneous intracerebral hemorrhage. Proceedings of the American Society of Neuroradiology, 1999.

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## Professional Activities

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### Teaching

### Invited Keynote/Plenary Addresses

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1. Technological Innovations in Skull Base Surgery. 9<sup>th</sup> International Milano Masterclass, March 24, 2017.
2. Perpetual Innovation and integrated service line delivery model. 2016 Neuroscience Symposium; Boca Raton, May 14, 2016.
3. Innovation and the Emerging World. Aga Khan University, Karachi, Pakistan. April 10-12, 2016.
4. White Matter Mapping Based Endoscopy: the 13 Cranial Nerve – Could it be? Endovienna 5th World Congress of Endoscopic Skull Base Surgery, Vienna, Austria, March 29, 2012.
5. Lessons Learned from the first decade of endoscopic skull base surgery and 1000 patients: 360°corridor surgery. Neurosurgery Past, Present and the Future. McMaster University Research Day, Oct 2011. (Adjudicator).

6. Lessons Learned from the first decade of endoscopic skull base surgery and 1000 patients: 360°corridor surgery. Neurosurgery Past, Present and the Future. Minimally Invasive Neurological Society Conference, Mackinaw Island, Michigan, 19-Jul-11.
7. Expanded Endoscopic Approaches to the Paramedian Skull Base and Management of the Carotid Artery at the Skull Base, Mastery of Advanced Head and Neck Reconstruction, Houston Texas, Feb 23, 2011.
8. Lessons Learned from the first decade of endoscopic skull base surgery and 1000 patients: 360°corridor surgery. Asian Pacific Congress of Neurological Surgery, Kula Lampoor, Nov 22, 2010.
9. Lessons Learned from the first decade of endoscopic skull base surgery and 1000 patients: 360°corridor surgery. Bronson Neurosciences Symposium, Kalamazoo Michigan. June 24, 2010.
10. Lessons Learned from the first decade of endoscopic skull base surgery and 1000 patients: 360°corridor surgery. 9th Congress of the Spanish Society Skull Base. June 10, 2010.
11. The lessons I learned from Minimally Invasive Brain and Skull Base Surgery after the first decade and 1000 cases. V Rhinology Congress. Sao Paulo, Brazil, May 13, 2010.
12. Minimally Invasive Skull Base Surgery: Lessons Learned from the 1,000 patients and first decade of endoscopic skull base surgery. 30th Annual Meeting of Japanese Congress of Neurological Surgeons, Yokohama, Japan, May 7-10, 2010.
13. Multiple corridors to the skull base: a combination of microscopy and endoscopy. 15th Annual Meeting of the Japanese Society for Neuroendoscopy, Tokyo, Japan, November 21, 2008.
14. The first decade of endoscopic skull base surgery. Personal experience in 1,000 patients: outcomes, complications and results. XXVII Congress of the Brazilian Neurosurgery Society, Iguassu Falls, Brazil, September 16, 2008.
15. Endoscopic skull base surgery: from the crista galli to the odontoid. Experience over a decade and 1,000 cases – lessons learned. 20th Memorial Meeting of the Japanese Society for Skull Base Surgery, Tokyo, Japan, July 7, 2008.
16. The evolution of endoscopic skull base surgery. 20th Memorial Meeting of the Japanese Society for Skull Base Surgery, Tokyo, Japan, July 6, 2008.
17. A decade of personal experience of endoscopic skull base surgery, with special emphasis on meningioma surgery. Reunion Annuelle, Société de Neurochirurgie de Langue Française, Paris, France, November 26, 2007.
18. Endoscopic skull base surgery. The first decade: my personal experience in 700 patients – outcomes and complications. 8th Congress of the European Skull Base Society, Prague, Czech Republic, May 5, 2007.
19. Modular approach along the coronal plane from the foramen ovale to the foramen ovale. 4th Biennial Milano Masterclass, Milan, Italy, March 25, 2007.
20. Transcendent leadership: advocacy through innovation and critical review of treatment options: endoscopic cranial surgery for tumor: ready for prime time? 56th Annual Meeting, Congress of Neurological Surgeons, Chicago, Illinois, October 10, 2006.
21. Principles and current limitations of endo-neurosurgery. Interurban Neurosurgical Society Annual Meeting, Chicago, Illinois, March 3, 2006.
22. Minimally invasive neurosurgery. Montreal, Quebec, Canada, June 12, 2006.

23. Principles of endoNeurosurgery. 1st World Congress for Endoscopic Surgery of the Brain, Skull Base and Spine. Pittsburgh, PA, September 30, 2005.
  24. Principles of endoNeurosurgery. President's Invited Lecture, International Society of Pediatric Neurosurgery, Vancouver, BC, Canada, September 15, 2005.
  25. Expanded endonasal approach: an evolving paradigm to the anterior and central skull base. 7th Congress of the European Skull Base Society, Fulda, Germany, May 19, 2005.
  26. Update on stroke management: evidenced based management of carotid stenosis. The Harkim Keynote Address, Neurosciences Conference, Washington, Pennsylvania, May 5, 2000.
  27. New concepts in vascular compression of the cranial nerves and brain stem; mainstreaming neurosurgery. Southern Medical Association Annual Meeting, New Orleans, Louisiana, November 20, 1998.
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**Selected Peer-Reviewed Platform Lectures**

Available upon request.

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**Invited Lectures: International**

Available upon request.

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**Invited Lectures: National**

Available upon request.

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**Invited Lectures: Local**

Available upon request.

**Panel Moderator**

Available upon request.

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**Panel Lectures**

Available upon request.

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**Eponymous Lectures**

Available upon request.

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**Visiting Professorships**

Available upon request.

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**Cadaveric and Live Surgery/Instructional Courses Taught**

Available upon request.

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**On-Site Surgical Proctoring**

Available upon request.

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**Selected Peer Reviewed Poster Presentations**

Available upon request.

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**Fellows Trained**

Available upon request.

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**Visiting Scholars**

Available upon request.

**Research**

Available upon request.

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**Clinical Trials**

Available upon request.

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**Patents and Inventions (awarded and pending)**

Available upon request.

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**Editorial Board Memberships**

Available upon request.

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**Ad Hoc Reviewer**

Available upon request.

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**Service**

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Available upon request.