

Curriculum Vitae

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Name: Kalil G. Abdullah, M.D., MSc

Office Address: 5323 Harry Hines Blvd
MC 8855, Dallas TX 75390-8855

Work Phone: 215-603-6019

Work E-Mail: Kalil.Abdullah@utsouthwestern.edu

Work Fax: 214-648-2822

Place of Birth: Buffalo, NY

Education

2016-2019	MSc (Merit)	Health Economics, Policy, and Management	The London School of Economics, London, U.K.
2007-2012	M.D.	Medical Degree	Cleveland Clinic Lerner College of Medicine, Cleveland, OH
2004-2007	B.S. (Summa Cum Laude)	Molecular Biotechnology	Arizona State University, Tempe, AZ

Postdoctoral Training

2018-2019	Chief Resident	Neurosurgery	Hospital of the University of Pennsylvania, Philadelphia, PA
2012-2019	Resident	Neurosurgery	Hospital of the University of Pennsylvania, Philadelphia, PA
2017-2018	Fellow	Open and endoscopic neurosurgical oncology	Wellington Regional Hospital, New Zealand
2015-2017	Postdoctoral Fellow	Glioma Cell Biology	Department of Radiation Oncology, University of Pennsylvania, Philadelphia, PA

Faculty Academic Appointments

2019-Present	Assistant Professor	Neurological Surgery	UT Southwestern Medical Center, Dallas, TX
2019- Present	Associate Member	Simmons Comprehensive Cancer Center	UT Southwestern Medical Center, Dallas, TX
2016- 2019	Instructor	Department of Neurosurgery, Perelman School of Medicine	University of Pennsylvania, Philadelphia, PA

Current Licensure and Certification

Licensure

2019- Present: Texas Medical Board

2014- Present: Commonwealth of Pennsylvania

Board and Other Certification

Board Eligible, American Board of Neurological Surgeons

Honors and Awards

2017	American Brain Tumor Young Investigator Award	Congress of Neurological Surgeons, Best Abstract
2015	Resident Liaison to the European Association of Neurological Surgeons	Congress of Neurological Surgeons
2012	Scholarship Award and Attendee	TEDMED
2012	The Alfred P. Maschke Award for Excellence in the Art and Practice of Medicine	Cleveland Clinic Lerner College of Medicine
2009	Graduate Student Research Award	Cleveland Clinic Neurological Institute Symposium
2009	Research Award	Stryker and Depuy Medical
2008	Howard Hughes Medical Institute Scholar at the National Institutes of Health	Howard Hughes Medical Institute/National Institutes of Health
2007	Full Merit Scholarship	Cleveland Clinic Lerner College of Medicine
2006	Undergraduate Research Fellowship	School of Life Sciences, Arizona State University
2006	Sun Award Scholar	Arizona State University
2005	Space Grant Award	NASA
2002	Captain	Chandler High School Varsity Football Team, Chandler, AZ

Appointments at Hospitals/Affiliated Institutions

<u>Current</u>			
2019	Attending Physician	Neurosurgery	UT Southwestern Medical Center, Dallas, TX
2019	Attending Physician	Neurosurgery	Texas Health Resources-Dallas, Dallas, TX
2019	Attending Physician	Neurosurgery	Parkland Memorial Hospital, Dallas, TX

Other Professional Positions

2018-Present	Senior Fellow	Leonard Davis Institute for Health Economics, University of Pennsylvania, Philadelphia, PA	
2020- Present	Unaffiliated Neurotrauma Consultant	National Football League, Dallas Cowboys	

Major Administrative/Leadership Positions

2019- Present	Director	Integrated Brain Tumor Research Program at UT Southwestern	
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Committee Service (*Member, unless noted otherwise*)

2019- Present	Dechard Endowment Committee	Parkland Hospital	
2019- Present	Neurosurgery Resident Applicant Review Committee	UT Southwestern	
2019- Present	Joint Admissions Medical Program	University of Texas Health System	

Professional Societies

2015-2017	Pennsylvania Neurosurgical Society (Executive Committee as State Resident Representative)		
2014-2016	Congress of Neurological Surgeons (Resident Representative, Education Committee)		
2019- Present	Congress of Neurological Surgeons		
2019- Present	American Association of Neurological Surgeons (Provisional Member, transitional application pending)		
2019- Present	Society for Neuro-Oncology		

Editorial Activities

Editorial Board

2020- present	Cureus
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Ad Hoc Reviewer

2015-present	PLOS One
2016-present	ACS Biomaterials Science and Engineering
2016- present	The Physician and Sportsmedicine
2019- Present	World Neurosurgery

Grant Support

<u>Present</u>	<i>Department of Neurosurgery, UT Southwestern</i>
	Integrated metabolic analysis of intrinsic brain tumors
	Principal Investigator
	<i>O'Donnell Brain Institute at UT Southwestern- Director's Award</i>
	Metabolic drivers of gliomagenesis
	Principal Investigator

Pending/Submitted	<i>NIH R01- Exploiting Pyrimidine Nucleotide Synthesis Dependence for IDH Mutant Glioma Therapy</i>
	Principal Investigator
	Submitted 6/2020

<u>Past</u>	<i>American Medical Association Seed Grant</i>
	The 9p21 locus for cardiovascular disease
	Principal Investigator
	\$2500, 2008
	<i>American Medical Association Seed Grant</i>
	The use of self-assembling injectable hydrogels for sustained intracranial drug delivery in glioblastoma
	Principal Investigator
	\$5000, 2016
	<i>NIH T32 Postdoctoral Grant in Neuroengineering and Medicine</i>
	The use of self-assembling injectable hydrogels for sustained intracranial drug delivery in high grade glioma

	Funded as Trainee
	<i>Institute for Translational Medicine and Therapeutics of the Perelman School of Medicine at the University of Pennsylvania (CTSA)</i>
	Intracranial delivery of a delayed-release hydrogel for treatment of glioblastoma
	Principal Investigator
	\$25000, 2017
	<i>Penn University Scholars Program</i>
	Identifying the economic life cycle of glioblastoma at an academic medical center: developing a novel economic scale for measuring benefit”
	Principal Investigator for training grant, 2018

Clinical Trials Activities

<u>Present</u>	
	<i>Monteris Medical</i>
2019- Present	Laser Ablation of Abnormal Neurological Tissue Using Robotic NeuroBlate System (LAANTERN). Role: PI (site)
2019- Present	A Randomized, Double Blind Phase II Trial of Surgery, Radiation Therapy Plus Temozolomide and Pembrolizumab With and Without HSPPC-96 in Newly Diagnosed Glioblastoma (GBM). Role: Co-PI
2020-Present	ALLIANCE A071801 PHASE III trial of post-surgical single fraction stereotactic radiosurgery (SRS) compared with fractionated SRS (FSRS) for resected metastatic brain disease. Role: Co-PI

Teaching Activities

<u>Dissertation committees</u>	
2019	Thesis advisor and mentor, Charles Fencil, candidate for MPH at Drexel University, Philadelphia, PA
2019	Undergraduate scholar mentor, Fahad Ahmed, Penn undergraduate, now Penn med matriculant
<u>Graduate and medical student trainees</u>	
2019- Present	Eric Montgomery, UTSW Medical Student
2019- Present	Cylaina Bird, UTSW Medical Student
2017-2019	Andrew Azzam, University of Pennsylvania medical student
2017-2019	Fahad Ahmed, Penn undergraduate, now Penn medical student matriculant
2018-2019	Charles Fencil, Drexel University medical student, now neurosurgery applicant
2018-2019	Anna-Claire Siena, University of Pennsylvania medical student

2016-2017	Joseph Durgin, University of Pennsylvania medical student
2015-2019	Prateek Agarwal, University of Pennsylvania medical student, now University of Pittsburgh neurosurgery resident
2013-2014	Edward Larkin, University of Pennsylvania medical student, now Business Development Analyst with Palantir Technologies
2012-2016	H. Wesley Phillips, University of Pennsylvania medical student, now UCLA Neurosurgery resident
2009-2010	Jeffrey Clark, Cleveland Clinic medical student, now University of Washington Psychiatry fellow
2009-2013	Daniel Lubelski, Cleveland Clinic medical student, now Johns Hopkins Neurosurgery resident
2007-2010	Kenneth Mackinlay, Miami University of Ohio undergraduate, now University of Louisville orthopedic surgery resident

Invited Lectures

<u>International</u>		
2012	Complications Following Use of RhBMP-2 In Anterior Lumbar Interbody Fusion	SpineWeek in conjunction with North American Spine Society, Amsterdam, Netherlands
2011	Open Door Laminoplasty with Preservation of Posterior Structures	Global Spine Congress, Barcelona, Spain
<u>National</u>		
2015	Cost benefit estimates of the use of topical vancomycin to prevent surgical site infection after craniotomy	American Association of Neurological Surgeons Annual Meeting. Washington, DC
2013	Adult intramedullary spinal cord tumors: a 12-year institutional experience	American Association of Neurological Surgeons, New Orleans, LA
2013	Rates of anterior cervical discectomy and fusion following initial posterior cervical foraminotomy	American Association of Neurological Surgeons/Congress of Neurological Surgeons Spine Section, Phoenix, AZ
2012	Radiation Exposure to The Spine Surgeon in Lumbar and Thoracolumbar Fusions with The Use of An Intraoperative Computed Tomography 3-dimensional Imaging System	Lumbar Spine Research Society, Chicago, IL
2012	Adverse Events with The Use of RhBMP-2 In Thoracolumbar and Lumbar Spine Fusions: A Nine Year Institutional Analysis	Lumbar Spine Research Society, Chicago, IL
2009	Virtual placement of C7 lateral mass screws: a comparative study and a novel technique	North American Spine Society and the Japanese Society for Spine Surgery and Related Research, Maui, HI

2009	Morphometric and volumetric analysis of the lateral masses of the lower cervical spine	North American Spine Society and the Japanese Society for Spine Surgery and Related Research, Maui, HI
<u>Regional/Local</u>		
2019	The management of malignant brain tumors: From standard of care to cutting edge	Texas Tech University, Amarillo, Texas, Grand Rounds
2019	The management of malignant brain tumors: From standard of care to cutting edge	University of Texas Health Science Center, Tyler, Grand Rounds
2019	Update on the surgical treatment of malignant brain tumors	Texas Health Resources- Dallas, Hospital-wide Grand Rounds
2019	Update on the treatment of malignant brain tumors	Texas Health Resources- Denton, Department of Emergency Medicine, Grand Rounds
2019	Economic considerations in the surgical treatment of malignant brain tumors	UT Southwestern, Department of Population Sciences, Grand Rounds
2019	The use of intracranial hydrogel delivery for glioblastoma	University of Pittsburgh, Department of Neurosurgery, Grand Rounds
2019	Sustained release histone deacetylase inhibitor treatment for glioblastoma	Cleveland Clinic Brain Tumor Center, Grand Rounds
2018	The development of a delayed-release hydrogel for topical, intracranial treatment of glioblastoma	University of Pennsylvania, Department of Neurosurgery, Grand Rounds
2018	Update in brain tumor treatment and therapy	Cleveland Clinic Lerner College of Medicine, Cleveland Clinic Lerner College of Medicine Alumni Event
2011	Harvey Cushing and the Dwarves: How the Father of Neurosurgery Shaped the Doctor-Patient Relationship	Cleveland Clinic and American Medicine, Part I. Cleveland Clinic, Cleveland, OH

Technological and Other Scientific Innovations

Patent
Delayed Release Hydrogel for the Intracranial Treatment of Glioblastoma. US Provisional Patent No. 62/647,173 http://upenn.technologypublisher.com/technology/34699

Service to the Community

Year(s)	Role	Organization or institution
2017-2019	Board Member	Pennsylvania Academy of Fine Arts, Young Friends Committee

Bibliographic Metrics

Citations: 1870 (since 2010)

h-index: 23

i10-index: 43

Bibliography

Peer-Reviewed Publications:

1. Shen GQ, Rao S, Martinelli N, Li L, Olivieri O, Corrocher R, **Abdullah KG**, Hazen SL, Smith J, Barnard J, Plow EF, Girelli D, Wang QK. Association between four SNPs on chromosome 9p21 and myocardial infarction is replicated in an Italian population. Journal of Human Genetics. 2008;53(2):144-50.
2. Shen GQ, Li L, Rao S, **Abdullah KG**, Ban JM, Lee BS, Park JE, Wang QK (2007) Four SNPs on chromosome 9p21 in a south Korean population implicate a genetic locus that confers high cross-race risk for development of coronary artery disease. Arteriosclerosis, Thrombosis, and Vascular Biology. 2008;28:360-365.
3. **Abdullah KG**, Li L, Shen GQ, Hu Y, Yang Y, MacKinlay KG, Topol EJ, Wang QK. Four SNPs on chromosome 9p21 confer risk to premature CAD and MI in a familial American Caucasian population (GeneQuest). Annals of Human Genetics. 2008 Sep;72(5):654-7
4. **Abdullah KG**. Phenotypes, genotypes, and the 9p21 locus for prediction of cardiovascular events. Journal of the American College of Cardiology: Cardiovascular Interventions, 2010
5. **Abdullah KG**, Steinmetz MP, Mroz TE. Morphometric and volumetric analysis of the lateral masses of the lower cervical spine. Spine. 2009;34:1476-1479.
6. Yang R, Li L, Seidelmann SB, Shen GQ, Sharma S, Rao S, **Abdullah KG**, Mackinlay KG, Elston RC, Chen Q, Topol EJ, Wang QK. A genome-wide linkage scan identifies multiple QTLs for HDL cholesterol levels in families with premature CAD and MI. J Lipid Res. 2010 Jun;51(6):1442-51
7. **Abdullah KG**, Stitzlein RN, Tallman TA. Isolated adrenal hematoma presenting as acute right upper quadrant pain. Journal of Emergency Medicine. 2012 Oct;43(4):e215-7
8. Mroz TE, **Abdullah KG**, Steinmetz MP, Klineberg EO, Lieberman IH. Radiation exposure to the surgeon during percutaneous pedicle screw placement. J Spinal Disord Tech. 2011 Jun;24(4):264-7.

9. **Abdullah KG**, Steinmetz MP, Wang JC, Mroz TM. Virtual placement of C7 lateral mass screws: a comparative study and a novel technique. Journal of Neurosurgery: Spine 2011 14:3, 405-411
10. Clark JC, **Abdullah KG**, Steinmetz MP, Benzel EC, Mroz TE. Minimally invasive versus open cervical foraminotomy: A review of the available literature. Global Spine Journal 2011 1:1 (22-25
11. **Abdullah KG**, Steinmetz MP, Benzel EC, Mroz TE. The state of lumbar fusion extenders. Spine 36 (20), E1328
12. **Abdullah KG**, Schlenk RS, Krishnaney A, Steinmetz MP, Benzel EC, Mroz TE. The Direct Lateral Approach to the Craniovertebral Junction: A Technical Note. Neurosurgery. 2012 Jun;70(2 Suppl Operative):202-8.
13. Alvin DA, **Abdullah KG**, Steinmetz MP, Lubelski D Benzel EC, Mroz TE. Morphometric analysis and parameters associated with successful virtual placement of translaminar screws in the subaxial cervical spine Spine (Phila Pa 1976). 2012 May 20;37(12):E745-51
14. Lubelski D, **Abdullah KG**, Steinmetz MP, Masters F, Mroz TE, Benzel EC, Shin JH. Lateral Extracavitary, costotransversectomy, and transthoracic thoracotomy approaches to the thoracic spine: review of techniques and complications. J Spinal Disord Tech. 2013 Jun;26(4):222-32
15. **Abdullah KG**, Bishop F, Steinmetz MP, Benzel EC, Mroz TM. Radiation exposure to the spine surgeon in lumbar and thoracolumbar fusions with the use of an intraoperative computed tomography 3-dimensional imaging system. Spine 2012. 37 (17), E1074-E1078
16. **Abdullah KG**, Yamashita T, Steinmetz MP, Lubelski D, Wang JC, Mroz TM. Open-door cervical laminoplasty with preservation of all posterior structures significantly preserves range of motion. Global Spine J 2012; 02(01): 015-020
17. Lubelski D, **Abdullah KG**, Benzel EC, Mroz TE. Use of Allogenic Mesenchymal Stem Cells in Spine Fusion Surgery. Global Spine Journal 2012. 2 (02), 109-114
18. Stitzlein RS, **Abdullah KG**, Steinmetz MP, Mroz TE. Genetics of Degenerative Spine Disease. SpineLine Aug 2012: 21-25
19. **Abdullah KG**, Benzel EC, Mroz TE. Comparative Effectiveness Research in Spine Surgery. Neurosurgical Focus. 2012 Jul;33(1):E2.
20. Zahradnik V, Lubelski D, **Abdullah KG**, Kelso R, Mroz TE, Kashyap V. Vascular injuries during anterior exposure of the thoracolumbar spine and the use of the access surgeon. Annals of Vascular Surgery. (Epub Ahead of Print Oct 2012)

21. Lubelski D, **Abdullah KG**, Nowacki AS, Alvin MD, Steinmetz MP, Benzel EC, Mroz TE
Urological complications following use of recombinant human bone morphogenetic
protein-2 in anterior lumbar interbody fusion: presented at the 2012 Joint Spine Section
Meeting: clinical article. Journal of Neurosurgery: Spine. J Neurosurg Spine. 2013
Feb;18(2):126-31
22. Lubelski D, **Abdullah KG**, Alvin MD, Steinmetz MP, Nowacki AS, Benzel EC, Mroz TE
Adverse events with the use of BMP-2 in thoracolumbar and lumbar spine fusions: A nine
year institutional analysis. Spinal Disord Tech. 2013 Nov 7.
23. Lubelski D, **Abdullah KG**, Mroz TE, Shin JH, Alvin MD, Benzel EC, Steinmetz MP.
Lateral Extracavitary and Costotransversectomy Approaches to the Thoracic Spine:
Lessons Learned. Neurosurgery. 2012 Dec;71(6):1096-102
24. **Abdullah KG**, Lubelski D, Nucifora P, Brem. The use of diffusion tensor imaging in
glioma resection. Neurosurgical Focus. 2013 Apr;34(4):E1
25. Lubelski D, **Abdullah KG**, Weil RJ, Marko NF. Bevacizumab for Radiation Necrosis
Following Treatment of High Grade Glioma: A Systematic Review of the Literature.
Journal of Neuro-Oncology. 2013 Dec;115(3):317-22.
26. Lubelski D, **Abdullah KG**, Alvin MD, Benzel EC, Mroz TE Clinical Outcomes
Following Surgical Management of Coexistent Cervical Stenosis and Multiple Sclerosis.
The Spine Journal. 2014 Feb 1;14(2):331-7.
27. Wang T, **Abdullah KG**, Lubelski D, Benzel EC, Mroz TE. Rates of anterior cervical
discectomy and fusion following initial posterior cervical foraminotomy. The Spine
Journal. 2013 Jul 16. pii: S1529-9430(13)00558-5.
28. Li M, Lubelski D, **Abdullah KG**, Mroz TE, Steinmetz MP. Minimally invasive tubular
resection of the anomalous transverse process in patients with Bertolotti's Syndrome.
Journal of Neurosurgery: Spine. 2014 Mar;20(3):283-90
29. Bakar D, Lubelski D, **Abdullah KG**, Mroz TE. Artificial cervical disc arthroplasty versus
anterior cervical discectomy and fusion: a systematic review. Current Orthopaedic
Practice. 2014. Jan: 25(1): 9-13
30. Chan NK, **Abdullah KG**, Lubelski D, Steinmetz MP, Benzel EC, Shin JH, Mroz TE.
Stereotactic Radiosurgery for Metastatic Spine Tumors. Journal of Neurosurgical
Sciences. 2014 Mar;58(1):37-44.
31. Alvin MD, Lubelski D, **Abdullah KG**, Whitmore RG, Benzel EC, Mroz TE. Cost-utility
analysis of one and two-level dorsal lumbar fusions with and without recombinant human
bone morphogenetic protein-2 at 1-year follow-up. Journal of Spinal Disorders and
Techniques. 2014 May 26. [Epub ahead of print]

32. Alvin M, Lubelski D, **Abdullah KG**, Whitmore RG, Benzel EC, Mroz TE. Cost-utility analysis of instrumented fusion versus decompression alone for grade I L4-L5 spondylolisthesis. The Spine Journal. 2014 Jun 5. [Epub ahead of print]
33. Alvin MD, Miller JA, Lubelski D, Rosenbaum B, **Abdullah KG**, Whitmore RG, Benzel EC, Mroz TE. Variations in cost calculations in spine surgery cost effectiveness research. Neurosurgical Focus. 2014 Jun;36(6):E1
34. Alvin MD, Lubelski D, **Abdullah KG**, Whitmore RG, Benzel EC, Mroz TE. Cost-utility analysis of anterior cervical discectomy and fusion with plating (ACDFP) versus posterior cervical foraminotomy (PCF) for patients with single-level cervical radiculopathy. The Spine Journal. 2014 Jun 5. [Epub ahead of print]
35. Lubelski D, Healy AT, Silverstein MP, Alvin MD, **Abdullah KG**, Benzel EC, Mroz TE. Association of Postoperative Outcomes with Preoperative MRI for Patients with Concurrent Multiple Sclerosis and Cervical Stenosis. Spine J. 2014 Jun 18.
36. Lubelski D, Alvin MD, **Abdullah KG**, Benzel EC, Mroz TE. Quality of Life Outcomes Following Thoracolumbar Fusion with and without the use of rhBMP-2: Does rhBMP-2 Make a Difference? Eur Spine J. 2014 Aug;23(8):1699-704.
37. Alvin MD, Miller JA, Lubelski D, Rosenbaum BP, **Abdullah KG**, Whitmore RG, Benzel EC, Mroz TE. Variations in cost calculations in spine surgery cost-effectiveness research. Neurosurg Focus. 2014 Jun;36(6):E
38. Lubelski D, **Abdullah KG**, Alvin MD, Benzel EC, Mroz TE. Clinical Outcomes Following Surgical Management of Coexistent Cervical Stenosis and Multiple Sclerosis: A Cohort Controlled Analysis. Spine J. 2014 Feb 1;14(2):331-7
39. Lubelski D, Alvin MD, Healy AT, Abdullah, KG, Nowacki AS, Whitmore RG, Benzel EC, Mroz TE. Quality of Life Outcomes Following Thoracolumbar and Lumbar Fusion with and without the use of rhBMP-2: Does rhBMP-2 Make a Difference? Global Spine Journal. 2014 Dec; 4(4) 245-54
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41. Phillips HW, **Abdullah KG**, Learned KO, Lee JYK. Acute Postoperative Sialadenitis after Retrosigmoid Craniotomies. Journal of Neurosurgical Sciences. 2016 Sep;60(3):403-4
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45. **Abdullah KG**, Lubelski D, Miller J, Steinmetz MP, Shin JH, Krishnaney A, Mroz TE, Benzel EC. Progression free survival and functional outcome after surgical resection of intramedullary ependymomas. J Clin Neurosci. 2015 Dec;22(12):1933-7
46. **Abdullah KG**, Grady MS, Levine JL. Football and concussion: A review and editorial. Curr Neurol Neurosci Rep. 2015 Apr;15(4):11. doi: 10.1007/s11910-015-0535-3.
47. **Abdullah KG**, Rammayya A, Thawani JP, Macyszyn L, O'Rourke DM, Brem S. Factors associated with increased survival after surgical resection of glioblastoma in octogenarians. PLOS One, PLoS One. 2015 May 15;10(5):e0127202. doi: 10.1371/journal.pone.0127202. eCollection 2015
48. Nayak RN, **Abdullah KG**, Stephen J, Malhotra NM, Stein SC. Comparing Utility Scores in Common Spinal Radiculopathies: Results of a Prospective Valuation Study. Global Spine J. 2016 May;6(3):270-6
49. Nayak NR, Stephen J, **Abdullah KG**, Malhotra NM. Tracking Patient-Reported Outcomes in Spinal Disorders. Surg Neurol Int. 2015 Oct 8;6(Suppl 19):S490-9
50. **Abdullah KG**. Lubelski D, Lautzenheiser F, Mroz TE. The Correspondence and Collaboration of Harvey Cushing and Irvine Page: Lessons from the Cleveland Clinic Archives. Surg Neurol Int. 2015 Nov 19;6:173.
51. Xiao R, Miller J, Lubelski D, **Abdullah KG**, Mroz TE, Benzel EC. Quality of Life Outcomes Following Resection of Adult Intramedullary Spinal Cord Tumors. Neurosurgery. 2015 Nov 20.
52. Xiao R, **Abdullah KG**, Miller JA, Lubelski D, Steinmetz MP, Shin JH, Krishnaney AA, Mroz TE, Benzel EC. Molecular and clinical prognostic factors for favorable outcome following surgical resection of adult intramedullary spinal cord astrocytomas.. Clin Neurol Neurosurg. 2016 Mar 14;144:82-87
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61. **Abdullah KG**, Li Y, Bohman LE, Thawani JP, Balu R, Levine J, Grady MS, Lucas TH. Long-term Utility and Complication Profile of Open Craniotomy for Biopsy in Patients with Idiopathic Encephalitis. Journal of Clinical Neuroscience. 2016 Dec 12. pii: S0967-5868(16)30847-5
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3. **Abdullah KG**. “Stereotactic biopsy of a low grade glioma”. Congress of Neurological Surgeons, Nexus Case Series
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