

CURRICULUM VITAE

The Johns Hopkins University School of Medicine

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Ali Bydon M.D.

DEMOGRAPHIC INFORMATION

Current Appointments

Director of Spinal Column Biomechanics and Surgical Outcomes Laboratory
Clinical Director, Neurosurgical Spine Program, Johns Hopkins Bayview Medical Campus
Associate Professor, Department of Neurosurgery, Johns Hopkins University School of Medicine
Co-Director of Neurosurgical Medical Student Education, Johns Hopkins University School of Medicine
Director of Neurosurgical Undergraduate Student Education, Johns Hopkins University School of Medicine
Medical Director, Hospital Moinhos de Vento, Brazil, Johns Hopkins Medicine International

Personal Data

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Education and Training

1990-1994 B.A., Near Eastern Studies, University of Michigan, Ann Arbor, MI
1994-1999 M.D., University of Michigan, Ann Arbor, MI
1999-2000 Intern, General Surgery, Henry Ford Hospital, Detroit, MI
2000-2005 Resident, Neurosurgery, Henry Ford Hospital, Detroit, MI
2004 Fellowship, Peripheral Neurosurgery, Louisiana State University, New Orleans, LA
2005 Fellowship, Minimally-Invasive Spine Surgery, Henry Ford Hospital, Detroit, MI
2005-2006 Chief Residency, Neurosurgery, Henry Ford Hospital, Detroit, MI
2006-2007 Fellowship, Spinal Oncology and Complex Reconstructive Spinal Surgery, Johns Hopkins University, Baltimore, MD

Professional Experience

- 2006-2007 Instructor, Neurosurgery, Johns Hopkins University School of Medicine
- 2007-2012 Assistant Professor Neurosurgery, Johns Hopkins University School of Medicine
- 2007-Present Clinical Director of the Neurosurgical Spine Program, Johns Hopkins Bayview
- 2007-Present Director of Spinal Column Biomechanics and Surgical Outcomes Laboratory, Johns Hopkins University School of Medicine
- 2012-Present Associate Professor of Neurosurgery, Johns Hopkins University School of Medicine
- 2013-Present Co-Director of Neurosurgical Medical Student Education, Johns Hopkins University School of Medicine
- 2013-Present Director of Neurosurgical Undergraduate Student Education, Johns Hopkins University School of Medicine
- 2014-Present Medical Director, Johns Hopkins Medicine International

PUBLICATIONS

Peer-reviewed original research articles

1. **Bydon A**, Thomas AJ, Seyfried D, Malik G. Carotid endarterectomy in patients with contralateral internal carotid artery occlusion without intraoperative shunting. *Surg Neurol.* 2002 May;57(5):325-30
2. **Bydon A**, Gutierrez JA, Mahmood A. Meningeal melanocytoma: an aggressive course for a benign tumor. *J Neurooncol.* 2003 Sep;64(3):259-63
3. Mehta B, Burke T, Kole M, **Bydon A**, Seyfried D, Malik G. Stent-within-a-stent technique for the treatment of dissecting vertebral artery aneurysms. *Am J Neuroradiol.* 2003 Oct;24(9):1814-8
4. Seyfried D, Han Y, Lu D, Chen J, **Bydon A**, Chopp M. Improvement in neurological outcome after administration of atorvastatin following experimental intracerebral hemorrhage in rats. *J Neurosurg.* 2004 Jul;101(1):104-7
5. Gallia GL, Sciubba DM, **Bydon A**, Suk I, Wolinsky JP, Gokaslan ZL, Witham T. Total L-5 spondylectomy and reconstruction of the lumbosacral junction: Technical note. *J Neurosurg Spine.* 2007 Jul;7(1)
6. Sciubba DM, Lin LM, Conway JE, Gokaslan ZL, **Bydon A**, Kebaish K. Development of scoliosis following intrathecally-placed opioid pump for chronic low back pain. *Spine (Phila Pa 1976).* 2007 Nov 15;32(24):E718-22
7. Sciubba DM, McLoughlin GS, Gokaslan ZL, **Bydon A**, Bessman E, Pantle H. Are computed tomography (CT) scans adequate in assessing cervical spine pain following blunt trauma? *Emerg Med J.* 2007 Nov; 24: 803-804
8. McGirt MJ, Chaichana KL, Atiba A, **Bydon A**, Witham TF, Yao KC, Jallo GI. Incidence of spinal deformity after resection of intramedullary spinal cord tumors in children who underwent laminectomy compared with laminoplasty. *J Neurosurg Pediatrics.* 2008 Jan;1(1):57-62

9. Chi JC, **Bydon A**, Hsieh P, Witham TF, Wolinsky JP, Gokaslan ZL. Epidemiology and demographics for primary vertebral tumors. *Neurosurg Clin N Am*. 2008 Jan; 19(1): 1-4
10. Chaichana KL, Woodworth GF, Sciubba DM, McGirt MJ, Witham TF, **Bydon A**, Wolinsky JP, Gokaslan ZL. Predictors of ambulatory function after decompressive surgery for metastatic epidural spinal cord compression. *Neurosurgery*. 2008 Mar;62(3):683-92; discussion 683-92
11. McGirt MJ, Chaichana KL, Attenello F, Witham T, **Bydon A**, Yao KC, Jallo GI. Incidence of spinal deformity after resection of cervical intramedullary spinal cord tumors in children. *Childs Nerv Syst*. 2008 Jun;24(6):735-9.
12. McLoughlin GS, Sciubba DM, Suk I, Witham T, **Bydon A**, Gokaslan ZL, Wolinsky JP. En bloc total sacrectomy performed in a single stage through a posterior approach. *Neurosurgery*. 2008 Jul;63(1 Suppl 1):ONS115-20; discussion ONS120
13. Gok B, McGirt M, Sciubba DM, Ayhan S, **Bydon A**, Witham TF, Wolinsky JP, Gokaslan ZL. Surgical resection plus adjuvant radiotherapy is superior to surgery or radiotherapy alone in the prevention of neurological decline in a rat metastatic spinal tumor model. *Neurosurgery*. 2008 Aug;63(2):346-51; discussion 351
14. Gok B, Sciubba DM, McLoughlin GS, McGirt M, Ayhan S, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Revision surgery for cervical spondylotic myelopathy: surgical results and outcome. *Neurosurgery*. 2008 Aug;63(2):292-8; discussion 298
15. Gok B, Sciubba DM, McLoughlin GS, McGirt M, Ayhan S, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Surgical treatment of cervical spondylotic myelopathy with anterior compression: a review of 67 cases. *J Neurosurg Spine*. 2008 Aug;9(2):152-7
16. Xu R, Sciubba DM, Gokaslan ZL, **Bydon A**. Ossification of the ligamentum flavum in a Caucasian man. *J Neurosurg Spine*. 2008 Nov;9(5):427-37
17. Sciubba DM, Nelson C, Gok B, McGirt MJ, McLoughlin GS, Noggle JC, Wolinsky JP, Witham TF, **Bydon A**, Gokaslan ZL. Evaluation of factors associated with postoperative infection following sacral tumor resection. *J Neurosurg Spine*. 2008 Dec;9(6):593-9
18. Sciubba DM, Nelson C, Hsieh P, Gokaslan ZG, Ondra SL, **Bydon A**. Perioperative challenges in the surgical management of ankylosing spondylitis patients. *Neurosurg Focus*. 2008; 24 (1):E10
19. McGirt MJ, Gok B, Shepherd S, Noggle J, Garcés Ambrossi GL, **Bydon A**, Gokaslan ZL. Effect of hyperglycemia on progressive paraparesis in a rat metastatic spinal tumor model. *J Neurosurg Spine*. 2009; Jan;10(1):9-15
20. Gok B, McLoughlin GS, Sciubba DM, McGirt MJ, Chaichana KL, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Surgical management of cervical spondylotic myelopathy with laminectomy and instrumented fusion. *Neurol Res*. 2009 Dec;31(10):1097-101
21. Bagley CA, Witham TF, Pindrik JA, Davis RF, **Bydon A**, Gokaslan ZL, Wolinsky JP. Assuring optimal physiologic craniocervical alignment and avoidance of swallowing-related complications after occipitocervical fusion by preoperative halo vest placement. *J Spinal Disord Tech*. 2009 May;22(3):170-6
22. Gok B, McGirt MJ, Sciubba DM, Garcés-Ambrossi G, Nelson C, Noggle J, **Bydon A**, Witham TF, Wolinsky JP, Gokaslan ZL. Adjuvant treatment with locally delivered OncoGel delays the onset of paresis after surgical resection of experimental spinal column metastasis. *Neurosurgery*. 2009 Jul;65(1):193-9; discussion 199-200
23. Xu R, Garcés-Ambrossi GL, McGirt MJ, Witham TF, **Bydon A**, Wolinsky JP, Gokaslan ZL, Sciubba DM. Thoracic vertebrectomy and spinal reconstruction via anterior, posterior, and combined approaches: clinical outcomes in 91 consecutive patients. *J Neurosurg Spine*. 2009 Sep;11(3):272-84

24. Garcés-Ambrossi GL, McGirt MJ, Samuels R, Sciubba DM, **Bydon A**, Gokaslan ZL, Jallo GI. Neurological outcome after surgical management of adult tethered cord syndrome. *J Neurosurg Spine*. 2009 Sep;11(3):304-9
25. Xu R, Bydon M, Gokaslan ZL, Wolinsky JP, Witham TF, **Bydon A**. Epidural steroid injection resulting in epidural hematoma in a patient despite strict adherence to anticoagulation guidelines. *J Neurosurg Spine*. 2009 Sep;11(3):358-64
26. Garcés-Ambrossi GL, McGirt MJ, Mehta VA, Sciubba DM, Witham TF, **Bydon A**, Wolinsky JP, Jallo GI, Gokaslan ZL. Factors associated with progression-free survival and long-term neurological outcome after resection of intramedullary spinal cord tumors: Analysis of 101 consecutive cases. *J Neurosurg Spine*. 2009 Nov;11:591-599
27. Colby GP, Coon AL, Sciubba DM, **Bydon A**, Gailloud P, Tamargo RJ. Intraoperative Indocyanine Green Angiography for Obliteration of a Spinal Dural Arteriovenous Fistula. *J Neurosurg Spine*. 2009 Dec;11(6):705-9
28. McGirt MJ, Sutter EG, Xu R, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Biomechanical comparison of translaminar versus pedicle screws at T1 and T2 in long subaxial cervical constructs. *Neurosurgery*. 2009 Dec;65(6 Suppl):167-72; discussion 172
29. Omeis I, Bekelis K, Gregory A, McGirt M, Sciubba D, **Bydon A**, Wolinsky JP, Gokaslan ZL, Witham TF. The use of expandable cages in patients undergoing multilevel corpectomies for metastatic tumors in the cervical spine. *Orthopedics*. 2010 Feb 1;33(2):87-92
30. Parker S, Xu R, McGirt MJ, Witham TF, Long D, **Bydon A**. Long-term back pain after single level discectomy for radiculopathy: Incidence and healthcare cost analysis. *J Neurosurg Spine*. 2010 Feb;12(2):178-82
31. Quraishi NA, Wolinsky JP, **Bydon A**, Witham TF, Gokaslan ZL. Giant destructive myxopapillary ependymomas of the sacrum. *J Neurosurg Spine*. 2010 Feb;12(2):154-9
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34. Ayhan S, Nelson C, Gok B, Pettys RJ, Wolinsky JP, Witham TF, **Bydon A**, Gokaslan ZL, Sciubba DM. Transthoracic surgical treatment for centrally located thoracic disc herniations presenting with myelopathy: A five-year institutional experience. *J Spinal Disord Tech*. 2010 Apr;23(2):79-88
35. Xu R, McGirt MJ, Parker SL, Bydon M, Olivi A, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Factors associated with recurrent back pain and cyst recurrence after surgical resection of 195 spinal synovial cysts: Analysis of 167 consecutive cases. *Spine (Phila Pa 1976)*. 2010 May 1;35(10):1044-53
36. McGirt MJ, Garcés-Ambrossi GL, Parker SL, Sciubba DM, **Bydon A**, Wolinsky JP, Gokaslan ZL, Jallo GI, Witham TF. Short-Term progressive spinal deformity following laminoplasty versus laminectomy for resection of intradural spinal tumors: Analysis of 238 patients. *Neurosurgery*. 2010 May;66(5):1005-12
37. McLoughlin GS, Sciubba DM, Suk I, Witham TF, Wolinsky JP, **Bydon A**, Gokaslan ZL. Resection of a retropharyngeal craniovertebral junction chordoma through a posterior cervical approach. *J Spinal Disord Tech*. 2010 Jul;23(5):359-65
38. Gottfried ON, Parker SL, Omeis I, **Bydon A**, Gokaslan ZL, Wolinsky JP. Spondylolysis of C-2 in 2 athletically active individuals. *J Neurosurg Spine*. 2010 Jul;13(1):17-23

39. **Bydon A**, Xu R, Conte JV, Gokaslan ZL, Brinker JA, Witham TF, Yassari R. Surgical mystery: Where is the missing pituitary rongeur tip? *Spine*. (Phila Pa 1976). 2010 Aug 1;35(17):E867-72
40. Dasenbrock HH, Kathuria S, Witham TF, Gokaslan ZL, **Bydon A**. Successful treatment of a symptomatic L5/S1 discal cyst by percutaneous CT-guided aspiration. *Surg Neurol Int*. 2010 Aug 10;1. pii: 41
41. Dasenbrock HH, Pendleton C, Cohen-Gadol AA, Witham TF, Gokaslan ZL, Quinones-Hinojosa A, **Bydon A**. "No clinical puzzles more interesting:" Harvey Cushing and spinal trauma, the Johns Hopkins Hospital 1896-1912. *Neurosurgery*. 2010 Nov 25
42. Lotfy M, Xu R, McGirt M, Sakr S, Ayoub B, **Bydon A**. Reconstruction of skull base defects in sphenoid wing dysplasia associated with neurofibromatosis I with titanium mesh. *Clin Neurol Neurosurg*. 2010 Dec;112(10):909-14
43. Xu R, McGirt MJ, Sutter EG, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Biomechanical comparison between C-7 lateral mass and pedicle screws in subaxial cervical constructs. *J Neurosurg Spine*. 2010 Dec;13(6):688-94
44. Goodwin CR, Recinos PF, Omeis I, Momin EN, Witham TF, **Bydon A**, Gokaslan ZL, Wolinsky JP. Prevention of facial pressure ulcers using the Mayfield clamp for sacral tumor resection. *J Neurosurg Spine*. 2010 Dec 8
45. Mehta VA, McGirt MJ, Ambrossi GL, Parker SL, Sciubba DM, **Bydon A**, Wolinsky JP, Gokaslan ZL, Witham TF. Trans-foraminal versus posterior lumbar interbody fusion: comparison of surgical morbidity. *Neurol Res*. 2011 Jan;33(1):38-42
46. Parker SL, McGirt MJ, Farber SH, Amin AG, Rick AM, Suk I, **Bydon A**, Sciubba DM, Wolinsky JP, Gokaslan ZL, Witham TF. Accuracy of free-hand pedicle screws in the thoracic and lumbar spine: analysis of 6816 consecutive screws. *Neurosurgery*. 2011 Jan;68(1):170-8
47. Dasenbrock HH, Pendleton C, Wolsinsky JP, Gokaslan ZL, Cohen-Gadol AA, Quinones-Hinojosa A, **Bydon A**. "No performance in surgery more interesting and satisfactory:" Harvey Cushing and his experience with spinal tumors at the Johns Hopkins Hospital. *J Neurosurg Spine*. 2011 Mar;14(3):412-20
48. Xu R, Solakoglu R, Maleki Z, McGirt MJ, Gokaslan ZL, **Bydon A**. Hemorrhagic synovial cyst: the possible role of initial trauma and subsequent microtrauma in its Pathogenesis. *Neurosurgery*. 2011 Mar;68(3):E858-65
49. Dasenbrock HH, Pendleton C, McGirt MJ, Sciubba DS, Gokaslan ZL, Quinones-Hinojosa A, **Bydon A**. "Fulfilling the chief of his or her duties as a physician:" Harvey Cushing, dorsal rhizotomy and the foundation of surgery for quality of life. *J Neurosurg Spine* 2011 Mar;14(3):421-7
50. Clarke MJ, Hsu W, Suk I, McCarthy E, Black JH 3rd, Sciubba DM, **Bydon A**, Yassari R, Witham TF, Gokaslan ZL, Wolinsky JP. Three-level en bloc Spondylectomy for Chordoma. *Neurosurgery*. 2011 Jun;68(2 Suppl Operative):325-33
51. Parker SL, Amin AG, Farber SH, McGirt MJ, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Ability of electromyographic monitoring to determine the presence of malpositioned pedicle screws in the lumbosacral spine: analysis of 2450 consecutively placed screws. *J Neurosurg Spine*. 2011 Aug;15(2):130-5
52. **Bydon A**, Dasenbrock HH, Pendleton C, McGirt MJ, Gokaslan ZL, Quinones-Hinojosa A. Harvey Cushing, the spine surgeon: the surgical treatment of Pott's disease. *Spine* (Phila Pa 1976). 2011 Aug 1;36(17):1420-5
53. Parker SL, Amin AG, Farber SH, McGirt MJ, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Ability of electromyographic monitoring to determine the presence of malpositioned pedicle screws in the lumbosacral spine: analysis of 2450 consecutively placed screws. *J Neurosurg Spine*. 2011 Aug;15(2):130-5

54. Pradilla G, Nagahama Y, Spivak AM, **Bydon A**, Rigamonti D. Spinal epidural abscess: current diagnosis and management. *Curr Infect Dis Rep*. 2010 Nov;12(6):484-91
55. Hsieh PC, Gallia GL, Sciubba DM, **Bydon A**, Marco RA, Rhines L, Wolinsky JP, Gokaslan ZL. En Bloc Excisions of Chordomas in the Cervical Spine: Review of Five Consecutive Cases With More Than 4-Year Follow-up. *Spine (Phila Pa 1976)*. 2011 Nov 15;36(24):E1581-7
56. Xu R, Ritzl EK, Sait M, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. A role for motor and somatosensory evoked potentials during anterior cervical discectomy and fusion for patients without myelopathy: Analysis of 57 consecutive cases. *Surg Neurol Int*. 2011;2:133.
57. Adogwa O, Parker SL, **Bydon A**, Cheng J, McGirt MJ. Comparative Effectiveness of Minimally Invasive Versus Open Transforaminal Lumbar Interbody Fusion: 2-year Assessment of Narcotic Use, Return to Work, Disability, and Quality of Life. *J Spinal Disord Tech*. 2011 Dec;24(8):479-84
58. Dasenbrock HH, Clarke MJ, **Bydon A**, Witham TF, Sciubba DM, Simmons OP, Gokaslan ZL, Wolinsky JP. Reconstruction of Extensive Defects from Posterior En Bloc Resection of Sacral Tumors Using Human Acellular Dermal Matrix and Gluteus Maximus Myocutaneous Flaps. *Neurosurgery*. 2011 Dec;69(6):1240-7
59. Xu R, Bydon M, Sciubba DM, Witham TF, Wolinsky JP, Gokaslan ZL, **Bydon A**. Safety and efficacy of rhBMP2 in posterior cervical spinal fusion for subaxial degenerative spine disease: Analysis of outcomes in 204 patients. *Surg Neurol Int*. 2011;2:109
60. Sciubba DM, Gokaslan ZL, Black JH 3rd, Simmons O, Suk I, Witham TF, **Bydon A**, Wolinsky JP. 5-level spondylectomy for en bloc resection of thoracic chordoma. *Neurosurgery*. 2011 Dec;69(2 Suppl Operative)
61. Lebow R, Parker SL, Adogwa O, Reig A, Cheng J, **Bydon A**, McGirt MJ. Microdiscectomy improves pain-associated depression, somatic anxiety, and mental well being in patients with herniated lumbar disc. *Neurosurgery*. 2012 Feb;70(2):306-11
62. Lebow R, Parker SL, Adogwa O, Reig A, Cheng J, **Bydon A**, McGirt MJ. Microdiscectomy improves pain-associated depression, somatic anxiety, and mental well-being in patients with herniated lumbar disc. *Neurosurgery*. 2012 Feb;70(2):306-11
63. Dasenbrock HH, Clarke MJ, **Bydon A**, Sciubba DM, Witham TF, Gokaslan ZL, Wolinsky JP. Endoscopic image-guided transcervical odontoidectomy: outcomes of 15 patients with basilar invagination. *Neurosurgery*. 2012 Feb;70(2):351-60
64. Dasenbrock HH, Clarke MJ, **Bydon A**, McGirt MJ, Witham TF, Sciubba DM, Gokaslan ZL, Wolinsky JP. En Bloc Resection of Sacral Chordomas Aided by Frameless Stereotactic Image Guidance: A Technical Note. *Neurosurgery*. 2012 Mar;70(1 Suppl Operative):82-7
65. Dasenbrock HH, Pradilla G, Witham TF, Gokaslan ZL, **Bydon A**. The Impact of Weekend Hospital Admission on the Timing of Intervention and the Outcomes after Surgery for Spinal Metastases. *Neurosurgery*. 2012 Mar;70(3):586-93
66. Dasenbrock HH, Clarke MJ, Thompson RE, Gokaslan ZL, **Bydon A**. The impact of July hospital admission on outcome after surgery for spinal metastases. *Neurosurgery* 2012 Mar 1;118(5):1429-38
67. Molina CA, Sarabia-Estrada R, Gokaslan ZL, Witham TF, **Bydon A**, Wolinsky JP, Sciubba DM. Delayed onset of paralysis and slowed tumor growth following in situ placement of recombinant human bone morphogenetic protein 2 within spine tumors in a rat model of metastatic breast cancer. *J Neurosurg Spine*. 2012 Apr;16(4):365-72
68. Laufer I, Sciubba DM, Madera M, **Bydon A**, Witham TJ, Gokaslan ZL, Wolinsky JP. Surgical management of metastatic spinal tumors. *Cancer Control*. 2012 Apr;19(2):122-8.

69. Dasenbrock HH, Juraschek SP, Schultz LR, Witham TF, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A**. The efficacy of minimally invasive discectomy compared with open discectomy: a meta-analysis of prospective randomized controlled trials. *J Neurosurg Spine*. 2012 May;16(5):452-62
70. Dasenbrock HH, Clarke MJ, Witham TF, Sciubba DM, Gokaslan ZL, **Bydon A**. The impact of provider volume on the outcomes after surgery for lumbar spinal stenosis. *Neurosurgery*. 2012 Jun;70(6):1346-53; discussion 1353-4
71. Veeravagu A, Ponnusamy K, Jiang B, Bydon M, McGirt MJ, Gottfried ON, Witham TJ, Gokaslan ZL, **Bydon A**. Renal osteodystrophy: Neurosurgical considerations and challenges. *World Neurosurg*. 2012 Jul;78(1-2):191
72. Parker SL, Adogwa O, **Bydon A**, Cheng J, McGirt MJ. Cost-effectiveness of minimally invasive versus open transforaminal lumbar interbody fusion for degenerative spondylolisthesis associated low-back and leg pain over two years. *World Neurosurg*. 2012 Jul;78(1-2):178-84
73. Clarke MJ, Dasenbrock H, **Bydon A**, Sciubba DM, McGirt MJ, Hsieh PC, Yassari R, Gokaslan ZL, Wolinsky JP. Posterior-only approach for en bloc sacrectomy: clinical outcomes in 36 consecutive patients. *Neurosurgery*. 2012 Aug;71(2):357-64
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75. Bydon M, Papadimitriou K, Witham T, Wolinsky JP, **Bydon A**, Sciubba D, Gokaslan Z. Novel therapeutic targets in chordoma. *Expert Opin Ther Targets*. 2012 Nov;16(11):1139-43
76. Papadimitriou K, Amin AG, Kretzer RM, Sciubba DM, **Bydon A**, Witham TF, Wolinsky JP, Gokaslan ZL, Baaj AA. Thromboembolic events and spinal surgery. *J Clin Neurosci*. 2012 Dec;19(12):1617-21
77. Bydon M, Papadimitriou K, Witham T, Wolinsky JP, Sciubba D, Gokaslan Z, **Bydon A**. Treatment of spinal synovial cysts. *World Neurosurg*. 2013 Feb;79(2):375-80
78. Zadnik P, Sarabia-Estrada R, Groves ML, Molina C, Jackson C, McCarthy E, Gokaslan ZL, **Bydon A**, Wolinsky JP, Witham TF, Sciubba DM. A novel animal model of human breast cancer metastasis to the spine: a pilot study using intracardiac injection and luciferase-expressing cells. *J Neurosurg Spine*. 2013 Mar;18(3):217-25
79. Kaloostian PE, Kim JE, Calabresi PA, **Bydon A**, Witham T. Clay-shoveler's fracture during indoor rock climbing. *Orthopedics*. 2013 Mar;36(3):e381-3
80. Adogwa O, Parker SL, Shau DN, Mendenhall SK, **Bydon A**, Cheng JS, Asher AL, McGirt MJ. Preoperative Zung depression scale predicts patient satisfaction independent of the extent of improvement after revision lumbar surgery. *Spine J*. 2013 May;13(5):501-6
81. Bydon M, Xu R, Papademetriou K, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, Jallo G, **Bydon A**. Safety of spinal decompression using an ultrasonic bone curette compared with a high-speed drill: outcomes in 337 patients. *J Neurosurg Spine*. 2013 Jun;18(6):627-33
82. Kaloostian PE, Kim JE, **Bydon A**, Sciubba DM, Wolinsky JP, Gokaslan ZL, Witham TF. Intracranial hemorrhage after spine surgery. *J Neurosurg Spine*. 2013 Sep;19(3):370-80
83. Zadnik PL, Hwang L, Ju DG, Groves ML, Sui J, Yurter A, Witham TF, **Bydon A**, Wolinsky JP, Gokaslan ZL, Sciubba DM. Prolonged survival following aggressive treatment for metastatic breast cancer in the spine. *Clin Exp Metastasis*. 2013 Sep 3

84. Ju DG, Zadnik PL, Groves ML, Hwang L, Kaloostian PE, Wolinsky JP, Witham TF, **Bydon A**, Gokaslan ZL, Sciubba DM. Factors Associated With Improved Outcomes Following Decompressive Surgery for Prostate Cancer Metastatic to the Spine. *Neurosurgery*. 2013 Oct;73(4):657-66
85. Bydon M, Xu R, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Adjacent Segment Disease After Anterior Cervical Discectomy and Fusion in a Large Series. *Neurosurgery*. 2013 Oct 21
86. Xu R, Bydon M, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Adjacent Segment Disease after ACDF: Clinical Outcomes After First Repeat Surgery Versus Second Repeat Surgery. *Spine (Phila Pa, 1976)*. 2013 Oct 21
87. Sarabia-Estrada R, Zadnik PL, Molina CA, Jimenez-Estrada I, Groves ML, Gokaslan ZL, **Bydon A**, Witham TF, Wolinsky JP, Sciubba DM. A rat model of metastatic spinal cord compression using human prostate adenocarcinoma: histopathological and functional analysis. *Spine J*. 2013 Nov;13(11):1597-606
88. Macki M, Lo SF, Bydon M, Kaloostian P, **Bydon A**. Post-surgical thoracic pseudomeningocele causing spinal cord compression. *J Clin Neurosci*. 2013 Nov 5
89. Mathios D, Kaloostian PE, **Bydon A**, Sciubba DM, Wolinsky JP, Gokaslan ZL, Witham TF. A novel method of anterior lumbosacral cage reconstruction. *J Neurosurg Spine*. 2013 Dec 6
90. Pindrik J, Macki M, Bydon M, Maleki Z, **Bydon A**. Midline synovial and ganglion cysts causing neurogenic claudication. *World J Clin Cases*. 2013 Dec 16;1(9):285-9
91. Lina IA, Puvanesarajah V, Liaw JA, Lo SF, Santiago-Dieppa DR, Hwang L, Mao A, **Bydon A**, Wolinsky JP, Sciubba DM, Gokaslan Z, Holmes C, Witham TF. A Quantitative Study of Parathyroid Hormone (1-34) and Bone Morphogenetic Protein-2 on Spinal Fusion Outcomes in a Rabbit Model of Lumbar Dorsolateral Intertransverse Process Arthrodesis. *Spine (Phila Pa 1976)*. 2013 Dec 20
92. Molina CA, Zadnik PL, Gokaslan ZL, Witham TF, **Bydon A**, Wolinsky JP, Sciubba DM. A cohort cost analysis of lumbar laminectomy-current trends in surgeon and hospital fees distribution. *Spine J*. 2013 Nov;13(11):1434-7
93. Macki M, Bydon M, Papademetriou K, Gokaslan Z, **Bydon A**. Presacral extramedullary hematopoiesis: an alternative hypothesis. *J Clin Neurosci*. 2013 Dec;20(12):1664-8
94. Chaichana KL, Bydon M, Santiago-Dieppa DR, Hwang L, McLoughlin G, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham T. Risk of infection following posterior instrumented lumbar fusion for degenerative spine disease in 817 consecutive cases. *J Neurosurg Spine*. 2014 Jan;20(1):45-52
95. Bydon M, Martin Ma T, Xu R, Weingart J, Olivi A, Gokaslan ZL, Tamargo RJ, Brem H, **Bydon A**. Surgical outcomes of craniocervical junction meningiomas: A series of 22 consecutive patients. *Clin Neurol Neurosurg*. 2014 Feb;117:71-9
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2. McGirt MJ, Ambrossi GL, Dato G, Sciubba DM, Witham TF, Wolinsky JP, Gokaslan ZL, **Bydon A**. Recurrent disc herniation and long-term back pain after primary lumbar discectomy: review of outcomes reported for limited versus aggressive disc removal. *Neurosurgery*. 2009 Feb; 64(2):338-44; discussion 344-5
3. **Bydon A**, Xu R, Parker SL, McGirt MJ, Bydon M, Gokaslan ZL, Witham TF. Recurrent back and leg pain and cyst reformation after surgical resection of spinal synovial cysts: Systematic review of reported post-operative outcomes. *Spine J*. 2010 Sep;10(9):820-6
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Case Reports

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2. Xu R, Sciubba DM, Gokaslan ZL, **Bydon A**. Metastasis to the occipito-cervical junction. Case report and review of the literature. *Surg Neurol Int*. 2010 May 31;1:16
3. Solakoglu C, Xu R, McGirt MJ, Kretzer R, Witham TF, **Bydon A**. Bilateral traumatic dislocation without fracture of the lumbosacral junction: Case report and review of the literature. *Spine (Phila Pa 1976)*. 2011 May 1;36(10):E662-8
4. Bydon M, Mathios D, Aguayo-Alvarez JJ, Ho C, Gokaslan ZL, **Bydon A**. Multiple primary intramedullary ependymomas: A case report and review of the literature. *Spine J*. 2013 Oct;13(10):1379-86
5. Elder BD, Goodwin CR, Kosztowski TA, Lo SF, **Bydon A**, Wolinsky JP, Jallo GI, Gokaslan ZL, Witham TF, Sciubba DM. Surgical Management of Osteoblastoma of the Spine: Case Series and Review of the Literature. *Turk Neurosurg*. 2016;26(4):601-7.

Book Chapters, Monographs

1. Sciubba DM, **Bydon A**, Gokaslan ZL. Spinal cord compression. *Abeloff's Clinical Oncology*, 4th Ed. Churchill Livingstone Elsevier. Philadelphia PA, 2008
2. Stewart AA, Bydon M, McGirt MJ, **Bydon A**. Spinal cord: Anatomical overview and selected pathologies. *Encyclopedia of Life Sciences*. John Wiley Sons Ltd, Chichester, 2014

3. Hsieh PC, Sciubba DM, Chi J, **Bydon A**, Gokaslan ZL. Surgical management of spinal neoplasms. *Mehta, Chang, Vogelbaum, and Guba: Principles and Practices of Neuro-Oncology: A Multidisciplinary Approach*. Demos Med Publ, 2010
4. Dasenbrock HH, **Bydon A**. Lumbar spine anatomy. *Baaj, Mummanemi, Uribe, Vaccaro, and Greenberg: Handbook of Spine Surgery, 1st Ed*. Thieme Publ, 2011
5. **Bydon A**, Dasenbrock HH, Suk I. Posterior lumbar fusion. *Schmidek and Sweet Operative Neurosurgical Techniques, 6th Ed*. Elsevier, 2012
6. Sciubba DM, **Bydon A**, Wolinsky JP, Gokaslan ZL. Pseudotumor: Transoral versus posterior fusion. *Best Evidence for Spine Surgery*. Elsevier, 2012
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FUNDING

2015-2016	DuraSeal Exact Spine Sealant System Post-Approval Study 00051208 Integra Life Sciences Role: PI, 50%
2007-2009	Geriatric Odontoid Fractures – Comparing surgical to conservative management in the treatment of Type II Odontoid Fractures AO Spine PI: Ziya L. Gokaslan Role: Co-PI, 20%
2007-2013	Cervical Spondylotic Myelopathy: An assessment of surgical techniques AO Spine PI: Ziya L. Gokaslan Role: Co-PI, 20%
2007-2013	Randomized controlled trial of DuraGen Plus Adhesion Barrier Mix to minimize adhesions following lumbar disectomy NCT00387829 Integra Life Sciences PI: Ziya L. Gokaslan Role: Co-PI, 20%
2008-2013	Evaluation of spinal rigidity and inter-vertebral graft subsidence in anterior and posterior fusion constructs NA_00018025 DePuy Spine Role: PI, 50%
2008-2015	Surgical versus non-operative treatment of metastatic epidural spinal cord compression: Quality of life and cost-effectiveness outcomes NA_00013681 DePuy Spine PI: Ziya L. Gokaslan Role: Co-PI, 20%

CLINICAL ACTIVITIES

Clinical Focus

Clinical practice focused on surgical treatment of degenerative spine disease, spinal trauma, spinal infections, spinal tumors, and spinal deformity. One of the busiest spine surgeons at Hopkins, with two clinic days per week (over 40 patients on average per week), and over 200 procedures performed each year.

Medical, other state/government licensure

1999-2005 Michigan Board of Medicine, License 4301073821

2006-Present Maryland Board of Physicians, License D64262 (Active)

Boards, other specialty certification

1999-Present National Board of Medical Examiners, Diplomate

2010-Present American Board of Neurological Surgeons, Board Certified

Clinical (Service) Responsibilities

2007-Present Spine surgery clinic at Bayview Medical Center, attending, one day per week

2007-Present Spine surgery clinic at Johns Hopkins Outpatient Center, attending, one day per week

Clinical Productivity

Over 40 patients seen in clinic each week

Over 200 procedures performed each year

Clinical Draw

Membership in or examiner for specialty board

Clinical Program Building

Development of nationally or internationally recognized clinical standard of care documents

Clinical Demonstration Activities to external audience, on or off campus

9/9/11 Instrumentation of the cervical spine. *Johns Hopkins CME Spine Workshop*, Vista Labs

9/10/11 Anterior cervical corpectomy and fusion. *Johns Hopkins CME Spine Workshop*, Vista Labs

9/15/12 Artificial disc replacement. *Johns Hopkins CME Spine Workshop*, Vista Labs

9/5/14 Adult spinal deformity. *Johns Hopkins CME Spine Workshop*, Vista Labs, Baltimore, MD

8/28/15 Anterior cervical discectomy and fusion. *Johns Hopkins CME Spine Workshop*, Vista Labs

4/9/16 Posterior cervical laminectomy and fusion. *Johns Hopkins CME Spine Workshop*, Vista Labs

EDUCATIONAL ACTIVITIES

Teaching

Classroom instruction

Clinical instruction

- 2007-Present Johns Hopkins Neurosurgery Spine Conference. Teaching of residents and medical students on a weekly basis through case examples. The Johns Hopkins University School of Medicine
- 2008-Present Introduction to Spinal Neurosurgery Tutorial. Teaching to undergraduate and post-baccalaureate students the basics of spinal disorders and diagnosis through outpatient clinic experience. The Johns Hopkins University School of Medicine
- 2011 Johns Hopkins University Master Clinician Intersession Program.
- 2012 Medical Student Research Day 2012 – Invited Judge. Johns Hopkins University School of Medicine
- 2013 Faculty host/mentor, Center for Bioengineering Innovation and Design. Johns Hopkins University

CME instruction

- 4/10 Activity Director, Spinal Disorders Course: Updates in the Diagnosis and Management for the Primary Care Physician, Department of Neurosurgery, Johns Hopkins University School of Medicine. I served as activity director for the first CME event hosted by the department of Neurosurgery, attended by 80 physicians
- 6/10 Activity Director, Orthopedics-Neurology-Neurosurgery Medical Symposium, Hospital Punta Pacifica, Panama City, Panama. Organized a 2-day CME event attended by 650 health care providers
- 05/11 Activity Director, Second Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 04/12 Activity Director, Third Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 04/13 Activity Director, Fourth Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 04/14 Activity Director, Fifth Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 03/15 Activity Director, Frontiers of Medicine CME Course, Hospital Moinhos de Vento and Johns Hopkins Medicine International, Puerto Alegre, Brazil.
- 05/15 Activity Director, Sixth Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 10/16 Activity Director, Seventh Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine

Workshops /seminars

9/9/11	Instrumentation of the cervical spine. <i>Johns Hopkins CME Spine Workshop</i> , Vista Labs
9/10/11	Anterior cervical corpectomy and fusion. <i>Johns Hopkins CME Spine Workshop</i> , Vista Labs
9/15/12	Artificial disc replacement. <i>Johns Hopkins CME Spine Workshop</i> , Vista Labs
9/5/14	Adult spinal deformity. <i>Johns Hopkins CME Spine Workshop</i> , Vista Labs
8/28/15	Anterior cervical discectomy and fusion. <i>Johns Hopkins CME Spine Workshop</i> , Vista Labs
4/9/16	Posterior cervical laminectomy and fusion. <i>Johns Hopkins CME Spine Workshop</i> , Vista Labs

Mentoring

Pre-doctoral Advisees /Mentees

2007-2015	Risheng Xu MD, currently neurosurgery resident, Johns Hopkins University School of Medicine
2009-2011	Hormuz Dasenbrock MD, currently neurosurgery resident, Brigham/Women's Hospital, Boston, MA
2012-2014	Mohamed Macki MD, currently neurosurgery resident, Henry Ford Hospital, Detroit, MI
2013-2014	Ting Martin Ma, currently medical student, Johns Hopkins University School of Medicine
2013-2014	Matthew Naumann, currently medical student, Johns Hopkins University School of Medicine
2013-2014	Nicholas B. Abt, currently otolaryngology resident, Harvard Medical School, Boston, MA
2013-2014	Mohamud Qadi, currently medical student, Johns Hopkins University School of Medicine
2014-2015	Ridwan Alam, currently medical student, Johns Hopkins University School of Medicine
2014-2015	Sbaa Syeda, currently medical student, Johns Hopkins University School of Medicine
2014-2015	Akachimere Uzosike, currently medical student, Johns Hopkins University School of Medicine
2015-2016	Rafael De la Garza Ramos, currently neurosurgery resident, Montefiore Health System, Bronx, NY

Post-doctoral Advisees /Mentees

2007-2008	James Conway MD, chief resident, currently attending neurosurgeon, LifeBridge Health Services, Baltimore, MD
2007-2008	Khan Li MD, chief resident, currently attending neurosurgeon, Neurosurgical Associates, Nashville, TN
2007-2008	Stanley Anderson MD, chief resident, currently associate professor of neurosurgery, Johns Hopkins University School of Medicine
2007-2008	Patrick Hsieh, MD, spine instructor, currently associate professor of neurosurgery and director of neurosurgery spine program, Keck Medicine of USC, Los Angeles, CA.
2007-2008	John Chi MD, spine instructor, currently assistant professor of neurosurgery and director of neurosurgical spine cancer, Brigham/Women's Hospital (Harvard Medical School), Boston, MA

2008-2009 Clinton Baird MD, chief resident, attending neurosurgeon, Oklahoma Spine & Brain Institute, Tulsa OK

2009-2009 Daniel M. Sciubba MD, chief resident, currently associate professor of neurosurgery, Johns Hopkins University School of Medicine

2008-2009 Violette Recinos MD, chief resident, currently section head of pediatric neurosurgery, Cleveland Clinic, Cleveland, OH

2008-2009 Oren Gottfried MD, spine instructor, currently associate professor of neurosurgery, Duke University, Durham, NC

2008-2009 Ibrahim Omeis MD, spine instructor, currently assistant professor of neurosurgery, Baylor College of Medicine, Houston, TX

2009-2010 Matthew McGirt MD, chief resident, currently adjunct research associate professor, University of North Carolina, Charlotte, NC

2009-2010 Jamez Frazier MD, chief resident, currently attending neurosurgeon, LifeBridge Health Services, Baltimore, MD

2009-2010 Alexander Coon MD, chief resident, currently assistant professor of neurosurgery, Johns Hopkins University School of Medicine

2009-2010 Michelle Clarke MD, spine instructor, currently associate professor of neurosurgery, Mayo Clinic, Rochester, MN

2009-2010 Reza Yassari MD, spine instructor, currently associate professor of neurosurgery, Albert Einstein College of Medicine, Bronx, NY

2010-2011 Michael Dorsi MD, chief resident, currently attending neurosurgeon, Ventura County Neurosurgical Associates, Ventura, CA

2010-2011 Wesley Hsu MD, chief resident, currently assistant professor of neurosurgery, Wake Forest Baptist Medical Center, Winston-Salem, NC

2010-2011 Ryan Kretzer MD, chief resident, currently attending neurosurgeon, Western Neurosurgery, Tucson AZ

2010-2011 Marcella Madera MD, spine instructor, currently attending neurosurgeon, Seton Brain & Spine Institute, Austin, TX

2010-2011 Ilya Laufer MD, spine instructor, currently attending neurosurgeon, Memorial Sloan Kettering Cancer Center, New York, NY

2011-2012 Chetan Bettegowda MD, chief resident, currently assistant professor of neurosurgery, Johns Hopkins University School of Medicine

2011-2012 Gustavo Pradilla MD, chief resident, currently assistant professor of neurosurgery at Emory University School of Medicine, Atlanta, GA

2011-2012 Graeme Woodworth MD, chief resident, currently associate professor of neurosurgery, University of Maryland School of Medicine, Baltimore, MD

2011-2012 Ryan Kretzer MD, spine instructor, currently attending neurosurgeon, Western Neurosurgery, Tucson

2011-2012 Ali A Baaj MD, spine instructor, currently assistant professor of neurosurgery, Weill Cornell Medical College-New York Presbyterian Hospital, New York, NY

2012-2013 Geoffrey Colby MD, chief resident, currently assistant professor of neurosurgery, Johns Hopkins University School of Medicine, Baltimore, MD

2012-2013 Shaan Raza MD, chief resident, currently assistant professor of neurosurgery, University of Texas MD Anderson Cancer Center, Houston, Texas

2012-2013 Pablo Recinos MD, chief resident, currently associate professor of neurosurgery, Cleveland Clinic, Cleveland, OH

2012-2013 Paul Kaloostian MD, spine instructor, currently attending neurosurgeon in Los Angeles, CA

2012-2013 Kristophe Karami MD, spine instructor, currently attending neurosurgeon in Clackamas, OR

2013-2014 Mari Groves MD, chief resident, currently fellow in pediatric neurosurgery, Johns Hopkins University School of Medicine

2013-2014 Li-Mei Lin MD, chief resident, currently assistant professor of neurosurgery, UC Irvine Health, Orange County, CA

2013-2014 Jonathan Pindrik MD, chief resident, currently pediatric neurosurgery fellow, University of Alabama School of Medicine, Birmingham, AL

2013-2014 Ankit Mehta MD, spine instructor, currently assistant professor of neurosurgery, University of Illinois Hospital & Health Sciences System, Chicago, IL

2013-2014 Ali Ozturk MD, spine instructor, currently assistant professor of neurosurgery, University of Pennsylvania, Philadelphia, PA

2013-2014 Atman Desai MD, spine instructor, currently assistant professor of neurosurgery, Stanford School of Medicine, Stanford, CA

2014-2015 Kaisorn Chaichana MD, chief resident, currently assistant professor of neurosurgery, Johns Hopkins University School of Medicine

2014-2015 Jason Liauw MD, chief resident, currently attending neurosurgeon, Orange County Neurosurgical Associate, Mission Viejo, CA

2014-2015 Mohamad Bydon MD, chief resident, currently assistant professor of neurosurgery, Mayo Clinic, Rochester, MI

2014-2015 Alia Hdeib MD, spine instructor, currently assistant professor of neurosurgery, Case Western Reserve University, Cleveland, OH

2014-2015 Jay Rhee MD, spine instructor, currently attending neurosurgeon, National Capital Neurosurgery, Washington DC

2014-2015 Jared Marks MD, spine instructor, currently assistant professor of neurosurgery, University of Mississippi Medical Center, Jackson, MS

2015-2016 Akwasi Boah MD, spine instructor, currently attending neurosurgeon, Texas Back Institute, Denton, TX

2015-2016 Daniel Aghion MD, spine instructor, currently attending neurosurgeon, Memorial Healthcare System, Hollywood, FL

Thesis Committees

Educational Program Building / Leadership

- 04/10 Activity Director, Spinal Disorders Course: Updates in the Diagnosis and Management for the Primary Care Physician, Department of Neurosurgery, Johns Hopkins University School of Medicine. I served as activity director for the first CME event hosted by the department of Neurosurgery, attended by 80 physicians
- 06/10 Activity Director, Orthopedics-Neurology-Neurosurgery Medical Symposium, Hospital Punta Pacifica, Panama City, Panama. Organized a 2-day CME event attended by 650 health care providers
- 05/11 Activity Director, 2nd Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 04/12 Activity Director, 3rd Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 04/13 Activity Director, 4th Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 04/14 Activity Director, 5th Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 03/15 Activity Director, Frontiers of Medicine CME Course, Hospital Moinhos de Vento and Johns Hopkins Medicine International, Puerto Alegre, Brazil.
- 05/15 Activity Director, 6th Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 10/16 Activity Director, 7th Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine

SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

System Innovation and Quality Improvement efforts within JHMI:

2013-Present Bayview committee to reduce rates of SSI after lumbar fusion, Johns Hopkins Bayview Medical Center

ORGANIZATIONAL ACTIVITIES

Journal peer review activities

- Reviewer Spine
- Reviewer Journal of Zhejiang University-SCIENCE
- Reviewer Eplasty: Open Access Journal of Plastic Surgery
- Referee Surgical Neurology International
- Reviewer Neurosurgical Reviews
- Reviewer Journal of Emergency Medicine and Health Care

Reviewer	Journal of Spine
Reviewer	Journal of Spine and Neurosurgery
Reviewer	Pain
Reviewer	Health and Quality of Life Outcomes
Reviewer	Clinical Neurology and Neurosurgery
Reviewer	The Spine Journal
Ad hoc reviewer	Journal of Neurosurgery: Spine
Ad hoc reviewer	European Spine Journal
Ad hoc reviewer	Neurosurgery
Ad hoc reviewer	Journal of Spinal Disorders and Techniques
Ad hoc reviewer	Journal of Osteoporosis
Ad hoc reviewer	World Neurosurgery
Ad hoc reviewer	PLOS Neglected Tropical Diseases

Advisory Committees, Review Groups/Study Sections

2007-2008	Johns Hopkins Bayview Medical Campus, Surgical Site Infection-Spinal Fusion Committee, help design the pilot to achieve tight glucose control in spinal fusion patients
2009-Present	Department of Neurosurgery, Johns Hopkins University School of Medicine, Residency Review Committee
2010-Present	Johns Hopkins University Access Committee, represented the department of neurosurgery in developing a new patient “ACCESS” model
2011-Present	Department of Neurosurgery and Neurology, Johns Hopkins University School of Medicine, Medical Practice Service Action Group, multidisciplinary oversight and leadership committee for service initiatives within the outpatient/medical practice setting
2013	Johns Hopkins Medicine International/Saudi ARAMCO joint venture, Chief Medical Officer search committee
2014-Present	Department of Neurosurgery, Johns Hopkins University School of Medicine, Residency Clinical Competency Committee
2014-Present	Johns Hopkins Faculty Senate, Representative for the Department of Neurosurgery
2015	Johns Hopkins Medicine International, Vice President for patient services search committee
2015	Johns Hopkins Medicine, Out-of-State Patient draw committee

Professional Societies

2006	American Association of Neurological Surgeons
2006	Congress of Neurological Surgeons
2006	American College of Surgeons

- 2007 Maryland Neurosurgical Society
- 2007 Maryland Spine Society
- 2007 AO Spine
- 2007 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves

Conference Organizer

JHMI/Regional

- 04/10 Activity Director, Spinal Disorders Course: Updates in the Diagnosis and Management for the Primary Care Physician, Department of Neurosurgery, Johns Hopkins University School of Medicine. I served as activity director for the first CME event hosted by the department of Neurosurgery, attended by 80 physicians
- 05/11 Activity Director, Second Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 04/12 Activity Director, Third Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 04/13 Activity Director, Fourth Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 04/14 Activity Director, Fifth Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 05/15 Activity Director, Sixth Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 10/16 Activity Director, Seventh Annual Spinal Disorders Course: Updates in Diagnosis and Management, Department of Neurosurgery, Johns Hopkins University School of Medicine

International

- 06/10 Activity Director, Orthopedics-Neurology-Neurosurgery Medical Symposium, Hospital Punta Pacifica, Panama City, Panama. Organized a 2-day CME event attended by 650 health care providers
- 03/15 Activity Director, Frontiers of Medicine CME Course, Hospital Moinhos de Vento and Johns Hopkins Medicine International, Puerto Alegre, Brazil.
- 04/15 Activity Director, 2nd Annual CMC Summit CME course, Clemenceau Medical Center, Beirut, Lebanon
- 04/16 Activity Director, 3rd Annual CMC Summit CME course, Clemenceau Medical Center, Beirut, Lebanon

Session Chair

Consultantship

RECOGNITION

Awards, Honors

- 2006 Henry Ford Hospital Chief Residency-Awarded with distinction
- 2009 Appointed as AO/ASIF Spine Faculty

- 2010 Richard Otenasak Faculty Teaching Award, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 2011 Second place Eposter in the Category of History, “No clinical puzzles more interesting: Harvey Cushing and spinal trauma, The Johns Hopkins Hospital 1896-1912”, AANS Annual Meeting
- 2011 Second place Eposter in the Category of Socioeconomics, “Disparities based on Race, Ethnicity, and Insurance Status in the Outcomes after Surgery for Spinal Metastases in the United States, 2005-2008”, AANS Annual Meeting
- 2012 Healthnetwork Foundation Service Excellence Award
- 2013 Best Abstract Award, “Adjacent segment disease after ACDF: Development of adjacent segment disease is more likely to occur above the index ACDF level”, Society for Progress and Innovation in the Near East (SPINE)
- 2013 Best Paper Award, “Adjacent segment disease after ACDF: Development of adjacent segment disease is more likely to occur above the index ACDF level”, Society for Progress and Innovation in the Near East (SPINE)

Invited Talks

- 2005 Neuroanatomy lectures: anatomy of the thalamus. *Henry Ford Hospital*. Detroit, MI
- 4/06 The surgical management of cerebral pyogenic abscesses. *Neurosurgery grand rounds*. *Henry Ford Hospital*. Detroit, MI
- 6/06 Endovascular aneurysm occlusion: what is adequate follow-up? *Annual meeting, World Association of Lebanese Neurosurgeons*. Beirut, Lebanon
- 8/06 Biomechanics of spinal anatomy. *Neuroanatomy lecture for nurses and health professionals*. *Johns Hopkins University*
- 09/06 Surgical management of metastatic spinal cord compression. *Yale University Department of Neurosurgery. Grand Rounds*. New Haven, CT
- 01/07 Management of low back pain. *Medical Grand Rounds*. *Montgomery General Hospital*. Olney, MD
- 07/07 Lumbar spondylosis. *Medical Grand rounds*. *Suburban Hospital*. Bethesda, MD
- 10/07 Vertebral osteomyelitis and diskitis: Surgical management. *Johns Hopkins University Department of Neurosurgery Grand Rounds*.
- 09/07 Ankylosing spondylitis: Surgical management. *Johns Hopkins University. Department of Neurosurgery Grand Rounds*.
- 06/08 Traumatic brain injury: Management updates. *ACLI Annual Conference*. Washington, DC
- 06/08 Ossification of thoracic ligamentum flavum. *Johns Hopkins University. Department of Neurosurgery Grand Rounds*
- 10/08 Subdural hematomas in the elderly. *The Professional Staff Meeting*. *Kimbrough Ambulatory Care Center, Department of Army*, Fort Meade, MD
- 11/08 Cervical myelopathy: anterior vs. posterior approaches. *Pan-arab Neurosurgery Annual Congress*. Riyadh, KSA

- 12/08 Spontaneous hemorrhage of a lumbar synovial cyst. Case presentation and review of the literature. *Johns Hopkins University Department of Neurosurgery Grand Rounds.*
- 03/09 The path I chose: why neurosurgery? *Johns Hopkins University Organization for Pre-Health Education (H.O.P.E) Johns Hopkins University, Homewood Campus.*
- 04/09 Surgical Management of Traumatic injuries to the Spine. *Johns Hopkins University Continued Medical Education Courses. Trauma update for nurses. Johns Hopkins Bayview Medical Campus.*
- 04/09 The work up and management of the back pain patient. *Neurology clerkship lecture series to 4th year medical students.*
- 05/09 Lower back pain. *Johns Hopkins Bayview Medical Center. Interactive seminar with prospective patients.*
- 05/09 Management of Upper Cervical Spine Trauma. *Johns Hopkins University Department of Neurosurgery Grand Rounds.*
- 07/09 Management of Lower Cervical Spine Trauma. *Johns Hopkins University Department of Neurosurgery Grand Rounds.*
- 08/09 Lumbar disk herniation: open vs. minimally-invasive. *Johns Hopkins University Department of Neurosurgery Grand Rounds.*
- 09/09 Spine surgery: How it's done differently over 6 continents. Panelist. *World Federation of Neurosurgeons Annual Congress. Boston, MA*
- 01/10 Lumbar disk herniation: natural history, pathophysiology, and treatment options. *AOSpine North America. Principles and Treatment of spinal disorders for fellows and residents. Las Vegas, NV*
- 03/10 Management of primary spinal tumors. *I Jornada de Neurocirugia Oncologica. Auditorio Hospital Clinico San Carlos. Madrid, Spain*
- 03/10 Management of spinal metastatic disease. *I Jornada de Neurocirugia Oncologica. Auditorio Hospital Clinico San Carlos. Madrid, Spain*
- 03/10 Management of low back and neck pain. *Johns Hopkins Bayview Medical Center.*
- 04/10 Spinal Cord Injury. Trauma care: insult to result. *Basic trauma course for health providers. Johns Hopkins Bayview Medical Center.*
- 04/10 Harvey Cushing the spine surgeon: Johns Hopkins Hospital 1896-1912. *Johns Hopkins University Department of Neurosurgery Grand Rounds.*
- 04/10 Spondylotic Cervical Myelopathy. *Johns Hopkins University CME course. Spinal Disorders: Updates in diagnosis and management for the primary care physicians.*
- 04/10 Lumbar disk herniation: open vs. minimally-invasive. *Johns Hopkins University CME course. Spinal Disorders: Updates in diagnosis and management for the primary care physicians.*
- 05/10 Lumbar degenerative spondylolisthesis. *Johns Hopkins University Department of Neurosurgery Grand Rounds.*
- 06/10 Management of Cervical Spine Trauma and Degenerative Disease/Surgical Approaches. *AO North America Principles of spinal disorders for operating room personnel. Reston, VA*
- 06/10 Posterior Lumbar Spine Lab: Moderator. *AO North America Principles of spinal disorders for operating room personnel. Reston, VA*

- 06/10 Management of Cervical spinal disorders: myelopathy and radiculopathy. *Orthopedics-Neurology-Neurosurgery Medical Symposium Program. Programa simposio medico actualizacion en ortopedia, neurologia, y neurocirugia. Hospital Punta Pacifica, Panama City, Panama*
- 06/10 Management of Lumbar degenerative disease: lumbar disk herniation, stenosis, spondylolisthesis, spondylolysis, and synovial cyst herniation. *Orthopedics-Neurology-Neurosurgery Medical Symposium Program. Programa simposio medico actualizacion en ortopedia, neurologia, y neurocirugia. Hospital Punta Pacifica. Panama City, Panama*
- 07/10 Lumbar Synovial Cysts: decompression vs. stabilization. *15th congress of the Syrian society of neurological surgeons. Damascus, Syria*
- 07/10 Lumbar disk herniation: aggressive discectomy vs. limited discectomy. *15th congress of the Syrian society of neurological surgeons. Damascus, Syria*
- 07/10 Selected spinal pathologies: case presentations and discussion with Syrian neurosurgical residents. *15th congress of the Syrian society of neurological surgeons. Damascus, Syria*
- 08/10 Cervical spine pathologies: degenerative, tumors, trauma. Evaluation and management. *Johns Hopkins University Department of Neurosurgery Grand Rounds.*
- 10/10 Selected cervical spine pathologies. *Johns Hopkins University Department of Physical Medicine and Rehabilitation (PT/OT inservice).*
- 10/10 Management of spinal trauma. *Seminars in Trauma: Fall 2010. Johns Hopkins Bayview Medical Center.*
- 10/10 The surgical management of neurological spinal disorders. *21st Annual Practical Update in Outpatient Neurology: CME course. Johns Hopkins Bayview Medical Center.*
- 03/11 Craniocervical junction pathologies: surgical management. *1st international joint symposium on the advancements in Neurosurgery. Seoul National University Hospital. Seoul, South Korea*
- 03/11 Cervical artificial disk replacement: the latest update. *1st international joint symposium on the advancements in Neurosurgery. Seoul National University Hospital. Seoul, South Korea*
- 03/11 Minimally invasive spine surgery: moderator. *1st international joint symposium on the advancements in Neurosurgery. Seoul National University Hospital. Seoul, South Korea*
- 06/11 Lumbar disc herniation: minimally invasive vs. open. *World Association of Lebanese Neurosurgeons Annual Meeting. Beirut, Lebanon*
- 06/211 Artificial cervical disk: the latest update. *World Association of Lebanese Neurosurgeons Annual Meeting. Beirut, Lebanon*
- 06/11 Spinal juxta-facet cysts: etiology and management. *World Association of Lebanese Neurosurgeons Annual Meeting. Beirut, Lebanon*
- 06/11 Thoraco-lumbar fractures: predictors of failure in non-operative treatment. *Society for progress and innovations for the near east (SPINE): updates and cadaveric bioskills workshop. Beirut, Lebanon*
- 06/11 Special Characteristic fractures: cervical bilateral facet dislocation—approach and standard of care. *Society for progress and innovations for the near east (SPINE): updates and cadaveric bioskills workshop. Beirut, Lebanon*
- 06/11 Lumbar acute disk herniation (case presentation/debate) discectomy is the standard of care. *Society for progress and innovations for the near east (SPINE): updates and cadaveric bioskills workshop. Beirut, Lebanon*

- 06/11 Complications: getting in and out of trouble. *Society for progress and innovations for the near east (SPINE): updates and cadaveric bioskills workshop*. Beirut, Lebanon
- 06/11 Spinal Tumors: evaluation and factors determining treatment. *Society for progress and innovations for the near east (SPINE): updates and cadaveric bioskills workshop*. Beirut, Lebanon
- 06/11 Cervical and lumbar case presentations for fellows and residents. *Society for progress and innovations for the near east (SPINE): updates and cadaveric bioskills workshop*. Beirut, Lebanon
- 06/11 Cervical myelopathy: multiple anterior cervical discectomies. *Society for progress and innovations for the near east (SPINE): updates and cadaveric bioskills workshop*. Beirut, Lebanon
- 08/11 Safety and efficacy of BMP in posterior spinal fusion: 204 patients (2006-2010). *Johns Hopkins University Department of Neurosurgery Grand Rounds*.
- 08/11 Cervical Disk arthroplasty. What's the indication? *Johns Hopkins University Department of Neurosurgery Grand Rounds*.
- 09/11 Cervical degenerative case discussion. *Johns Hopkins CME Spine Workshop*.
- 09/11 Cervical anterior corpectomy and fusion, technical notes. *Johns Hopkins CME Spine Workshop*.
- 09/11 Cervical myelopathy: surgical treatment options. *The joint symposium on clinical excellence and applied research in neurosurgery & urology. Johns Hopkins International. Hospital general de la plaza de la salud. Santo Domingo, Dominican Republic*
- 09/11 Lumbar Pathologies: selected pathologies and treatments. *The joint symposium on clinical excellence and applied research in neurosurgery & urology. Johns Hopkins International. Hospital general de la plaza de la salud. Santo Domingo, Dominican Republic*
- 11/11 Spine surgery: then and now. *Johns Hopkins Hospital Women's Board yearly lecture series. Johns Hopkins Hospital*.
- 12/11 Cervical myelopathy treated posteriorly: long-term outcome and complications. *The 5th American-Kuwaiti neurosurgical meeting. Kuwait city, Kuwait*
- 12/11 Spinal synovial cysts: fuse or not. *The 5th American-Kuwaiti neurosurgical meeting. Kuwait City, Kuwait*
- 12/11 Lumbar disk herniation: minimally invasive vs. open. *The 5th American-Kuwaiti neurosurgical meeting. Kuwait City, Kuwait*
- 01/12 Spine surgery case presentations. *Johns Hopkins University Department of Neurosurgery Grand Rounds*.
- 02/12 Alternatives to Autograft: are they as good as we think? *Controversies in complex spine surgery, Snowbird, UT*
- 02/12 BMP literature: can we trust it? *Controversies in complex spine surgery. Snowbird, UT*
- 04/12 Lumbar imaging 101. *Johns Hopkins University CME course. The Third Annual Spinal Disorders: Updates in Diagnosis and Management*.
- 04/12 Spinal stenosis. Johns Hopkins University CME course. *The Third Annual Spinal Disorders: Updates in Diagnosis and Management*.
- 05/12 Case-based discussion: staged vs. non-staged spinal surgery. *AO advanced techniques of spinal resection. A Hands-on Hu*

man Anatomic Specimen Course, Burr Ridge, IL

- 08/12 C1 lateral mass screws (Cervical Spine Skills Lab). Instructor. *AOSpine North America Principles and Treatment of Spinal Disorders for Residents*. Las Vegas, NV
- 08/12 Thoracic Pedicle Screws (Thoracolumbar Spine Skills Lab). Instructor. *AOSpine North America Principles and Treatment of Spinal Disorders for Residents*. Las Vegas, NV
- 09/12 Artificial disk replacement. *Second Annual Johns Hopkins CME Spine Workshop*.
- 03/13 Spinal Stenosis: presentation, diagnosis, and treatment. *Health Network Foundation Webinar*. 160 registrants
- 04/13 Lumbar imaging 101. *Johns Hopkins University CME course. The Fourth Annual Spinal Disorders: Updates in Diagnosis and Management*.
- 04/13 Spinal stenosis. *Johns Hopkins University CME course. The Fourth Annual Spinal Disorders: Updates in Diagnosis and Management*.
- 04/13 Cervical myelopathy. *Johns Hopkins University CME course. The Fourth Annual Spinal Disorders: Updates in Diagnosis and Management*.
- 08/13 Disparities in spinal surgery outcomes in the United States. *Johns Hopkins University Department of Neurosurgery Grand Rounds*.
- 09/13 Clinical case presentations: Cervical spine. *Johns Hopkins University Department of Neurosurgery Grand Rounds*.
- 09/13 Clinical case presentations: Lumbar spine. *Johns Hopkins University Department of Neurosurgery Grand Rounds*.
- 09/13 Patient Safety: Developing local applications and translating the evidence. *Johns Hopkins Medicine International: Partners Forum 2013*.
- 10/13 Neurological Surgery. *American College of Surgeons Clinical Congress 2013*. Panelist. Washington, DC
- 11/13 Innovation in Spine Surgery: The Safety of Usage of The Bone Scalpel vs. High Speed Drill: Outcomes in 337 Patients. *4th Congress of Gulf Neurosurgical Society & 1st Qatar Neurosurgery & Spine Society Conference*. Doha, Qatar
- 11/13 Adjacent Level Disease After Anterior Cervical Spine Surgery: Incidence, Occurrence and Outcomes. *4th Congress of Gulf Neurosurgical Society & 1st Qatar Neurosurgery & Spine Society Conference*. Doha, Qatar
- 11/13 Spinal Surgery: The Presentation, Indication and Treatment of Patients with Spinal Disorders. *1st Gulf Neuroscience Nurses Conference*. Doha, Qatar
- 01/14 Neurosurgical Spinal Emergencies. *Johns Hopkins Bayview Medical Center Medicine Grand Rounds*.
- 01/14 C1 – C2 posterior fusion surgical techniques. *AOSNA Principles and Treatment of Spinal Disorders for Residents CME Course*. Las Vegas, NV
- 02/14 Spinal Stenosis: A Common Ailment Affecting an Aging Spine. *Boca Grande Health Clinic Lecture Series*. Naples, FL

- 04/14 Lumbar imaging 101. *Johns Hopkins University CME course. The Fifth Annual Spinal Disorders: Updates in Diagnosis and Management.*
- 04/14 Spinal stenosis. *Johns Hopkins University CME course. The Fifth Annual Spinal Disorders: Updates in Diagnosis and Management.*
- 04/14 Cervical myelopathy. *Johns Hopkins University CME course. The Fifth Annual Spinal Disorders: Updates in Diagnosis and Management.*
- 04/14 Selected Spinal Pathologies: Evidence-Based Surgery. *15th Dubai Spine Conference.* Dubai, United Arab Emirates
- 05/14 Long-term outcomes after ACDF. *Johns Hopkins University Department of Neurosurgery Grand Rounds.*
- 08/14 Back pain: surgical management. *Hospital Moinhos de Vento Grand Rounds.* Puerto Alegre, Brazil
- 09/14 Case presentations. *13th Annual Neuro-oncology Updates.* Brigham and Women's Hospital, Department of Neurosurgery. Boston, MA
- 09/14 Adult spinal deformity cases. *Johns Hopkins Fourth Annual Spine Workshop.*
- 10/14 Spinal instrumentation. *Johns Hopkins Neuroradiology Grand Rounds.*
- 10/14 Primary tumors of the spine: treatment modalities. *CMC 2nd Cancer Care Forum.* Beirut, Lebanon
- 10/14 Metastatic spine disease: surgical vs. radio-surgical treatment. *CMC 2nd Cancer Care Forum.* Beirut, Lebanon
- 11/14 Supply Chain Panel Discussion: GPO Benefits & Technology Investment. *Johns Hopkins Medicine International: Partners Forum 2014.*
- 12/14 Clinical case presentations. *Johns Hopkins University Department of Neurosurgery Grand Rounds.*
- 01/15 Long-term patient outcomes after posterior cervical foraminotomy. *Johns Hopkins University Department of Neurosurgery Grand Rounds.*
- 02/15 Cervical spondylosis: Pathophysiology and treatment options. *Johns Hopkins Medical Grand Rounds.*
- 04/15 Visiting Professorship. *Department of Neurosurgery, Duke University School of Medicine.* Durham, NC
- 05/15 Cervical Myelopathy. *Johns Hopkins University CME course. The Sixth Annual Spinal Disorders: Updates in Diagnosis and Management*
- 05/15 Lumbar Imaging 101. *Johns Hopkins University CME course. The Sixth Annual Spinal Disorders: Updates in Diagnosis and Management*
- 05/15 Spinal Stenosis. *Johns Hopkins University CME course. The Sixth Annual Spinal Disorders: Updates in Diagnosis and Management*
- 05/15 Cervical myelopathy: anterior versus posterior surgery. *CMC Spine Summit.* Beirut, Lebanon
- 05/15 Ossification of the posterior longitudinal ligament: anterior versus posterior approach. *CMC Spine Summit.* Beirut, Lebanon
- 05/15 C1 – C2 instability – surgical options. *CMC Spine Summit.* Beirut, Lebanon
- 05/15 Lumbar synovial cysts: decompression alone versus decompression and fusion. *CMC Spine Summit.* Beirut, Lebanon

- 05/15 Early versus late surgical decompression for spinal cord injury. *CMC Spine Summit*. Beirut, Lebanon
- 05/15 Management of metastatic spinal tumors. *CMC Spine Summit*. Beirut, Lebanon
- 08/15 Anterior cervical discectomy and fusion, Anterior cervical corpectomy, Odontoid screw fixation. *Fifth Annual Johns Hopkins CME Spine Workshop*.
- 08/15 Cervical degenerative case review. *Fifth Annual Johns Hopkins CME Spine Workshop*.
- 02/16 Degenerative Spondylolisthesis: evidence based approach to surgery. *Second ArabSpine Annual Meeting*. Casablanca, Morocco
- 02/16 Cervical Myelopathy: treatment and challenges. *Second ArabSpine Annual Meeting*. Casablanca, Morocco
- 04/16 Surgical Management of Spondylolysis. *CMC Spine Summit*. Beirut, Lebanon
- 04/16 Post-laminectomy Spondylolisthesis. *CMC Spine Summit*. Beirut, Lebanon
- 04/16 Cervical Adjacent Segment Disease. *CMC Spine Summit*. Beirut, Lebanon
- 08/16 Cervical Degenerative Case Discussion, *Sixth Annual Johns Hopkins CME Spine Workshop*
- 08/16 Cervical Deformity Case Review, *Sixth Annual Johns Hopkins CME Spine Workshop*
- 10/16 Cervical Disease: select pathology. *Neuroradiology fellows lecture, Johns Hopkins Neuroradiology Grand Rounds*
- 10/16 Lumbar Stenosis. *Johns Hopkins University CME course. The Seventh Annual Spinal Disorders: Updates in Diagnosis and Management*.
- 10/16 Lumbar Spondylolisthesis. *Johns Hopkins University CME course. The Seventh Annual Spinal Disorders: Updates in Diagnosis and Management*
- 10/16 Cervical Myelopathy. *Johns Hopkins University CME course. The Seventh Annual Spinal Disorders: Updates in Diagnosis and Management*
- 10/16 Cervical Spine Case Studies. *Johns Hopkins University CME course. The Seventh Annual Spinal Disorders: Updates in Diagnosis and Management*
- 12/16 Innovations in Spine Surgery. *Distinguished Visiting Professor*, Johns Hopkins Aramco Healthcare, Dhahran, Saudi Arabia
- 12/16 Spine Surgery: a tour de force. *Distinguished Visiting Professor*, Johns Hopkins Aramco Healthcare, Dhahran, Saudi Arabia
- 02/17 Innovations in Spine Surgery. 13th Middle East Orthopedics' Conference. Dubai, United Arab Emirates

OTHER PROFESSIONAL ACCOMPLISHMENTS

Posters

- 04/02 Veyna R, Seyfried D **Bydon A**, Han Y, Anagli J. Use of a selective cysteine protease inhibitor in an embolic model of middle cerebral artery occlusion. *AANS annual meeting*. Chicago, IL.

- 09/02 Mehta B, Burke T, Kole M, **Bydon A**, Seyfried D, Malik G. Stent-within-a-stent technique for the treatment of dissecting vertebral artery aneurysms: a technical report and case series. *CNS Annual Meeting*. Philadelphia, PA.
- 02/06 Kole M, Marin H, **Bydon A**, Sanders W. Bleeding after endovascular coiling of intracranial aneurysms: a pooled analysis of the literature. *Joint annual meeting, AANS/CNS cerebrovascular section and American Society Interventional & Therapeutic Neuroradiology*. Orlando, FL
- 10/07 McGirt M, Yao K, Witham T, **Bydon A**, Chaichana K, Epstein F, Jallo G. A proposed grading system for intramedullary spinal cord tumors in children: predictive value for subsequent progressive spinal deformity. *CNS Annual Meeting Oral Platforms*. San Diego, CA.
- 10/07 McGirt M, Yao K, Witham T, **Bydon A**, Chaichana K, Epstein F, Jallo G. Laminoplasty versus laminectomy is associated with a decreased incidence of spinal deformity after resection of intramedullary spinal cord tumors in children. *CNS Annual Meeting Oral Platforms*. San Diego, CA.
- 10/07 McGirt M, Yao K, Witham T, **Bydon A**, Chaichana K, Epstein F, Jallo G. Risk Factors for progressive spinal deformity following surgical resection of intramedullary spinal cord tumors in children: Analysis of 164 consecutive cases. *CNS Annual Meeting Oral Platforms*. San Diego, CA.
- 10/07 McLoughlin G, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. The treatment of vertebral osteomyelitis and epidural abscess: the effect of instrumented fusion. *CNS Annual Meeting Oral Platforms*. San Diego, CA.
- 10/07 McLoughlin G, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Postoperative infection of the instrumented spine: a review of 1,351 procedures over 5 years. *CNS Annual Meeting Oral Platforms*. San Diego, CA.
- 11/08 Xu R, McGirt MJ, Sutter EG, Wolinsky JP, Witham TF, Gokalsan ZG, **Bydon A**. In Vitro Biomechanical Comparison of Translaminar Versus Pedicle Screws at T1 and T2 in Long Subaxial Cervical Constructs. *Pan-arab Neurosurgery Annual Congress*. Riyadh, KSA.
- 2/08 Chaichana KL, Woodworth GF, Sciubba DM, McGirt MJ, **Bydon A**, Gokaslan ZL. Predictors of ambulatory function following decompressive surgery for metastatic epidural spinal cord compression. *24th Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves*. Orlando, FL.
- 2/08 Sciubba DM, Ayhan S, Nelson C, Noggle JC, Wolinsky JP, Witham TW, **Bydon A**, Gokaslan ZL. Transthoracic surgical treatment for centrally located thoracic disc herniations causing myelopathy: a five-year institutional experience. *24th Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves*. Orlando, FL.
- 10/08 Gok B, McGirt MJ, Sciubba DM, Garces-Ambrossi GL, Nelson C, Noggle JC, **Bydon A**, Witham TF, Wolinsky JP, Gokaslan ZL. Adjuvant treatment with locally delivered Oncogel delays the onset of paresis after surgical resection or radiotherapy of experimental spinal column metastasis. *CNS Annual Meeting*. Orlando, FL.
- 12/08 Xu R, McGirt MJ, Sutter EG, Wolinsky JP, Witham TF, Gokalsan ZG, **Bydon A**. In Vitro Biomechanical Comparison of Translaminar Versus Pedicle Screws at T1 and T2 in Long Subaxial Cervical Construct. *3rd Annual Bayview Research Symposium*. Baltimore, MD.
- 12/08 McGirt MJ, Garces-Ambrossi GL, Sciubba DM, **Bydon A**, Wolinsky JP, Witham TF, Gokaslan ZL, Jallo GI. Spinal deformity following laminoplasty versus laminectomy for resection of intradural spinal tumors: Analysis of 238 patients. *36th Annual CSRS Meeting*. Austin, TX.
- 12/08 Garces-Ambrossi GL, McGirt MJ, Sciubba DM, Witham TF, **Bydon A**, Wolinsky JP, Jallo GI, Gokaslan ZL. Factors associated with progression-free survival and long-term neurological outcome after resection of

intramedullary spinal cord tumors in adults: Analysis of 101 consecutive cases. *36th Annual CSRS Meeting*. Austin, TX.

- 3/09 Sciubba DM, Alesh H, Nelson C, Parker SL, Gokaslan ZL, Witham TF, **Bydon A**, Wolinsky JP. Preoperative radiographic factors and surgeon experience are associated with cortical breach of C2 pedicle screws. *25th Annual Meeting of the AANS/CNS Section on Disorders of Spine and Peripheral Nerves*/ Phoenix AZ.
- 10/09 Bydon M, McGirt M, Parker, Liauw J, Sciubba D, Witham T, Wolinsky JP, Gokaslan Z, **Bydon A**. Recurrent disc herniation and long-term back pain after primary lumbar discectomy: Review of outcomes reported for limited or aggressive disc removal. *Congress of Neurological Surgeons Annual Meeting*. New Orleans, LA.
- 10/09 Bydon M, Parker, Xu R, McGirt M, **Bydon A**. Recurrent back and leg pain and cyst reformation after surgical resection of spinal synovial cysts: Systematic review of reported outcomes. *Congress of Neurological Surgeons Annual Meeting*. New Orleans, LA.
- 10/09 McGirt M, Parker, Liauw J, **Bydon A**, Wolinsky JP, Witham T, Bydon M, Gokaslan Z. Vertebroplasty and Kyphoplasty for the Treatment of Vertebral Compression Fractures: An Evidenced Based Review of the Literature. *Congress of Neurological Surgeons Annual Meeting*. New Orleans, LA.
- 10/09 McGirt M, Mehta, Parker, Liauw J, **Bydon A**, Ahn E, Weingart S, Jallo G. Scoliosis progression after first time pediatric spinal cord untethering: Risk factors and time course for progression and fusion. *Congress of Neurological Annual Meeting*. New Orleans, LA.
- 10/09 McGirt M, Parker S, Xu R, Bydon M, Liauw J, Long D, **Bydon A**. Long-term back pain after single level discectomy for radiculopathy: Incidence and health care cost analysis. *Congress of Neurological Surgeons Annual Meeting*. New Orleans, LA.
- 10/09 McGirt M, Sutter, Xu R, Bydon M, Witham T, Wolinsky JP, Gokaslan Z, **Bydon A**. In Vitro biomechanical comparison of translaminar versus pedical screws at T1 and T2 in long subaxial cervical constructs. *Congress of Neurological Surgeons Annual Meeting*. New Orleans, LA.
- 10/09 Liauw J, McGirt M, Gottfried O, Mehta, Parker, **Bydon A**, Gokaslan Z, Samdani, Jallo G. Safety and efficacy of concurrent pediatric spinal cord untethering with scoliosis correction and fusion. *Congress of Neurological Surgeons Annual Meeting*. New Orleans, LA.
- 10/09 Chaichana K, Pendleton, McGirt M, **Bydon A**, Liauw J, Wolinsky JP, Gokaslan Z, Sciubba D. Vertebral compression fractures in patients presenting with metastatic epidural spinal cord compression. *Congress of Neurological Surgeons Annual Meeting*. New Orleans, LA.
- 10/09 Parker, Samuels, McGirt M, **Bydon A**, Liauw J, Weingart, Carson B, Jallo G. Incidence of symptomatic retethering after surgical management of pediatric tethered cord syndrome with or without duraplasty. *Congress of Neurological Surgeons Annual Meeting*. New Orleans, LA.
- 11/09 McGirt MJ, Garcés-Ambrossi GL, Parker S, Sciubba DM, **Bydon A**, Wolinsky JP, Gokaslan ZL, Jallo GI, Witham TF. Progressive spinal deformity following laminoplasty versus laminectomy for resection of intradural spinal tumors: Analysis of 238 patients. *NASS 24th annual meeting*. San Francisco, CA.
- 11/09 McGirt MJ, Parker SL, Garcés-Ambrossi GL, Mehta VA, Sciubba DM, Witham TF, Gokaslan ZL, **Bydon A**, Wolinsky JP. Trans-laminar versus pedicle screw fixation of C2: Comparison of surgical morbidity and analysis of 313 consecutive screws. *NASS 24th annual meeting*. San Francisco, CA.
- 11/09 McGirt MJ, Sutter EG, Xu R, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Biomechanical comparison of translaminar versus pedicle screws at T1 and T2 in long subaxial cervical constructs. *NASS 24th annual meeting*. San Francisco, CA.

- 11/09 McGirt MJ, Ambrossi GL, Dato G, Sciubba DM, Witham TF, Wolinsky JP, Gokaslan Z, **Bydon A**. Recurrent disc herniation and long-term back pain after primary lumbar discectomy: Review of outcomes reported for limited or aggressive disc removal. *NASS 24th annual meeting*. San Francisco, CA.
- 11/09 McGirt MJ, Garcés-Ambrossi GL, Mehta VA, Sciubba DM, Witham TF, **Bydon A**, Wolinsky JP, Jallo GI, Gokaslan ZL. Factors associated with long-term neurological outcome and tumor progression after resection of intramedullary spinal cord tumors: Analysis of 103 consecutive cases *NASS 24th annual meeting*. San Francisco, CA.
- 11/09 McGirt MJ, Parker SL, Wolinsky JP, Witham TF, **Bydon A**, Gokaslan ZL. Vertebroplasty and Kyphoplasty of vertebral compression fractures: an evidence based review of the literature. *NASS 24th annual meeting*. San Francisco, CA.
- 11/09 McGirt MJ, Xu R, Parker SL, Bydon M, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Surgical factors associated with recurrent back pain and cyst recurrence after surgical resection of synovial cysts: analysis of 160 consecutive cases. *NASS 24th annual meeting*. San Francisco, CA.
- 11/09 Parker SL, McGirt MJ, Xu R, Bydon M, **Bydon A**. Recurrent back and leg pain and cyst reformation after surgical resection of spinal synovial cysts: systemic review of reported post-operative outcomes *NASS 24th annual meeting*. San Francisco, CA.
- 11/09 McGirt MJ, Ambrossi GL, Parker SL, Samuels R, Sciubba DS, **Bydon A**, Jallo G, Gokaslan ZL. Neurological outcome after surgical management of adult tethered cord syndrome. *NASS 24th annual meeting*. San Francisco, CA.
- 12/09 Xu R, McGirt MJ, Parker SL, Bydon M, Olivi A, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Factors associated with recurrent back pain and cyst recurrence after surgical resection of 195 spinal synovial cysts: analysis of 167 consecutive cases. *4th annual Bayview Research Symposium*. Baltimore, MD.
- 02/10 Parker S, McGirt MG, Amin A, Farber SH, **Bydon A**, Sciubba DS, Wolinsky JP, Gokaslan ZL, Witham TF. The accuracy of intraoperative electromyographic monitoring to determine the presence of malpositioned pedicle screws in the lumbosacral spine: An analysis of 2450 consecutive screws. *26th Annual meeting of the AANS/CNS section on disorders of the spine and peripheral nerves*. Orlando, FL.
- 02/10 Parker S, McGirt MG, Amin A, Farber SH, Rick A, **Bydon A**, Sciubba DS, Wolinsky JP, Gokaslan ZL, Witham TF. Accuracy of Free hand pedicle screws in the thoracic and lumbar spine: analysis of 6816 consecutive screws. *26th Annual meeting of the AANS/CNS section on disorders of the spine and peripheral nerves*. Orlando, FL.
- 02/10 Parker S, McGirt MJ, Xu R, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Surgical factors associated with recurrent back pain and cyst recurrence after surgical resection of spinal synovial cysts: analysis of 160 consecutive cases. *26th Annual meeting of the AANS/CNS section on disorders of the spine and peripheral nerves*. Orlando, FL.
- 02/10 Richman J, Defontes K, Zaidi H, Flerlage T, Molina CA, Hsu W, **Bydon A**, Gokaslan ZL, Witham TF, Wolinsky JP, Sciubba DS. C5 radiculopathy as a complication of cervical spine surgery. *26th Annual meeting of the AANS/CNS section on disorders of the spine and peripheral nerves*. Orlando, FL.
- 02/10 Xu R, McGirt MJ, Sutter EG, Parker S, Sciubba DS, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Biomechanical comparison of C7 lateral mass vs. pedicle screws in subaxial cervical constructs. *26th Annual meeting of the AANS/CNS section on disorders of the spine and peripheral nerves*. Orlando, FL.
- 10/10 Xu R, Ritzl E, Sait M, McGirt M, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. A role for motor and somatosensory evoked potentials during anterior cervical discectomy and fusion for patients without myelopathy: Analysis of 57 consecutive cases. *CNS Annual Meeting*. San Francisco, CA.

- 10/10/ Dasenbrock HH, Pendleton C, McGirt M, Sciubba DM, Gokaslan ZL, Quinones-Hinojosa A, **Bydon A**. Fulfilling the chief of his or her duties as a physician: Harvey Cushing, dorsal rhizotomy, and the foundation of surgery for quality of life. *CNS Annual Meeting*. San Francisco, CA.
- 10/10 Adogwa O, Parker S, **Bydon A**, Cheng JS, McGirt M. Comparative effectiveness of minimally invasive versus open transforaminal lumbar interbody fusion: two-year assessment of pain, disability, quality of life, and return to work. *CNS Annual Meeting*. San Francisco, CA.
- 12/10 Dasenbrock HH, Pendleton C, McGirt MJ, Sciubba DS, Gokaslan ZL, Quinones-Hinojosa A, **Bydon A**. "Fulfilling the Chief of His or Her Duties as a Physician:" Harvey Cushing, Selective Dorsal Rhizotomy and Elective Spine Surgery for Quality of Life. *5th Annual Bayview Research Symposium*, Baltimore, MD.
- 12/10 Dasenbrock HH, Pradilla G; Gokaslan ZL, **Bydon A**. The Impact of weekend hospital admission on the timing of intervention and outcomes after surgery for spinal metastases in the United States, 2005-2008. *5th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/10 Xu R, Bydon M, Dorsi M, McGirt MJ, Gokaslan ZL, **Bydon A**. Safety and Efficacy of Rbmp2 in Posterior Cervical Spinal Fusion for Subaxial Degenerative Spine Disease: Analysis of Outcomes in 204 Patients. *5th Annual Bayview Research Symposium*. Baltimore, MD.
- 03/11 Sarabia-Estarada R, Molina CA, Panayotova G, Jung C, Gokaslan ZL, Witham TF, Wolinsky JP, **Bydon A**, Sciubba DM. Development of a novel intravertebral human prostate adenocarcinoma rat model for the study of intravertebral metastatic spine disease. *27th annual meeting of the AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Sarabia-Estarada R, Molina CA, Gokaslan ZL, Witham TF, Wolinsky JP, **Bydon A**, Sciubba DM. Application of in vivo bioluminescence to monitor spine tumor volume in a rodent model of spine tumor. *27th annual meeting of the AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Sarabia-Estarada R, Molina CA, Jimenez-Estrada, Gokaslan ZL, Witham TF, Wolinsky JP, **Bydon A**, Sciubba DM. Evaluation of neurological dysfunction in rat animal models of spine tumors. *27th annual meeting of the AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Xu R, Ritzl E, McGirt MJ, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. A Role for Motor and Somatosensory Evoked Potentials During anterior cervical discectomy and fusion for patients without myelopathy: analysis of 57 consecutive cases. *27th annual meeting of the AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Xu R, Bydon M, Dorsi MJ, McGirt MJ, Gokaslan ZL, **Bydon A**. Safety and efficacy of rhBMP in posterior cervical spinal fusion for subaxial degenerative spine disease: analysis of outcomes in 204 patients. *27th annual meeting of the AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Dasenbrock, HH, Witham TF, Sciubba DM, Gokaslan ZL, **Bydon A**. Disparities based on race, ethnicity, and insurance status in access to and outcomes after surgery for cervical spondylotic myelopathy in the united states, 2005-2008. *27th annual meeting of the AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Dasenbrock, HH, Witham TF, Sciubba DM, Gokaslan ZL, **Bydon A**. Disparities based on race and ethnicity in the timing of surgery for acute spinal cord injury in the united states, 2005-2008. *27th annual meeting of the AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Dasenbrock, HH, Witham TF, Sciubba DM, Gokaslan ZL, **Bydon A**. Disparities based on race, ethnicity, and insurance status in the access to and outcomes after surgery for lumbar spinal stenosis in the United States, 2005-2008. *27th annual meeting of the AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.

- 03/11 Clarke MJ, Suk I, Sciubba DM, Witham TF, Yassari R, **Bydon A**, Gokaslan ZL, Wolinsky JP. Cervical reconstruction using lateral mass cages. *27th annual meeting of the AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Madera M, Laufer I, Gokaslan ZL, **Bydon A**, Sciubba DM, Witham TF, Wolinsky JP. Complications and oncological outcomes after multilevel en bloc spondylectomy in 11 patients. *27th annual meeting of the AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Clarke MJ, Dasenbrock HH, Hsu W, Suk I, Sciubba DM, Witham TF, **Bydon A**, Gokaslan ZL, Wolinsky JP. En bloc Hemisacrectomy and internal hemipelvectomy done from the posterior approach: a report of two cases. *27th annual meeting of the AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 10/11 Dasenbrock HH, Witham TF, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A** The Efficacy of Minimally Invasive Discectomy Compared to Open Discectomy: A Meta-Analysis of Prospective Randomized Controlled Trials. *Congress of Neurological Surgeons Annual meeting*. Washington DC.
- 10/11 Dasenbrock HH, Witham TF, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A** The Impact of Jul Hospital Admission on the Outcomes after Surgery for Spinal Metastases at Academic Medical Centers in the United States, 2005-2008. *Congress of Neurological Surgeons Annual meeting*. Washington DC.
- 10/11 Dasenbrock HH, Witham TF, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A** Long-term Outcomes of Patients with Multilevel Cervical Spondylotic Myelopathy after Laminectomy, Laminoplasty, and Laminectomy & Fusion: A Meta-Analysis of Observational Studies. *Congress of Neurological Surgeons Annual meeting*. Washington DC.
- 10/11 Dasenbrock HH, Witham TF, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A** The Impact of Chronic Renal Disease on the Perioperative Outcomes After Surgery for Lumbar Spinal Stenosis. *Congress of Neurological Surgeons Annual meeting*. Washington DC.
- 10/11 Dasenbrock HH, Witham TF, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A** The Impact of Race and Ethnicity on the In-Hospital Outcomes After Surgery for Metastatic Spine Disease. *Congress of Neurological Surgeons Annual meeting*. Washington DC.
- 10/11 Dasenbrock HH, Witham TF, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A** The Impact of Body Habitus on the Outcomes After Surgery for Cervical Spondylotic Myelopathy. *Congress of Neurological Surgeons Annual meeting*. Washington DC.
- 10/13 Bydon M, Xu R, Macki M, Ma TM, Kaloostian P, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A**, Witham T. Safety and Efficacy of Pedicle Screw Placement Using Intraoperative Computed Tomography: Consecutive Series of 1148 Pedicle Screws. *Congress of Neurological Surgeons 2013 Annual Meeting*. San Francisco, CA.
- 10/13 Bydon M, Xu R, Macki M, Sciubba DM, Wolinsky JP, Witham T, Gokaslan ZL, **Bydon A**. Adjacent Segment Disease after ACDF: Development of Adjacent Segment Disease is More Likely to Occur Above the Index ACDF Level. *Congress of Neurological Surgeons 2013 Annual Meeting*. San Francisco, CA.
- 10/13 Bydon M, Xu R, Macki M, Ma TM, Kaloostian P, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A**. Adjacent Segment Disease after ACDF: Clinical Outcomes After First Repeat Surgery Versus Second Repeat Surgery. *Congress of Neurological Surgeons 2013 Annual Meeting*. San Francisco, CA.
- 10/13 Bydon M, Xu R, Santiago-Dieppa D, Macki M, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham T. Long-term outcomes after non-instrumented lumbar arthrodesis. *Congress of Neurological Surgeons 2013 Annual Meeting*. San Francisco, CA.
- 12/13 Bydon M, Xu R, Santiago-Dieppa D, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Adjacent segment disease in 511 cases of postero-lateral instrumented lumbar

arthrodesis: Floating fusion versus distal construct including the sacrum. *8th Annual Bayview Research Symposium*. Baltimore, MD.

- 12/13 Bydon M, De la Garza-Ramos R, Macki M, Abt NB, Mathios D, Qadi M, Sciubba DM, Gokaslan ZL, **Bydon A**. Lumbar fusion versus non-operative management for treatment of discogenic low back pain: A systematic review and meta-analysis of randomized controlled trials. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, Xu R, Macki M, De la Garza-Ramos R, Mathios D, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Adjacent segment disease after anterior cervical discectomy and fusion in a large series. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, Lin JA, De la Garza-Ramos R, Macki M, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. The role of spinal fusion in the treatment of cervical synovial cysts: A series of seventeen patients and meta-analysis. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, Santiago-Dieppa D, Xu R, De la Garza-Ramos R, Macki M, Abt NB, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Long-term outcomes after non-instrumented lumbar arthrodesis. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, De la Garza-Ramos R, Xu R, Macki M, Abt NB, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Patients with degenerative disc disease have the highest rates of reoperation after lumbar fusion: An analysis of 790 patients based on preoperative diagnosis. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, De la Garza-Ramos R, Macki M, Abt NB, Qadi M, Mathios D, Sciubba DM, Gokaslan ZL, **Bydon A**. Trends in Medicare payments to physicians and implantable medical device makers. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Xu R, Bydon M, Macki M, De la Garza-Ramos R, Belkoff SM, Wolinsky JP, Gokaslan ZL, **Bydon A**. Biomechanical impact of C2 pedicle screw length in an atlantoaxial fusion construct. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, Gokaslan ZL, Belzberg AJ, **Bydon A**, Witham TF. Incidence and prognostic factors of C5 palsy: A clinical study of 1,001 cases and review of the literature. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, Macki M, De la Garza-Ramos R, Abt NB, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Development of postoperative C5 palsy is associated with wider posterior decompressions: an analysis of 41 patients. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, De la Garza-Ramos R, Macki M, Abt NB, Qadi M, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A**, Witham TF. Spinal instrumentation in patients with primary spinal infections does not lead to higher recurrent infections. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, Xu R, Amin AG, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Safety and efficacy of pedicle screw placement using intraoperative computed tomography: Consecutive series of 1148 pedicle screws. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, Macki M, De la Garza-Ramos R, Abt NB, Youssef M, Ma TM, Mathios D, Gokaslan ZL, Meleka S, **Bydon A**. The cost-effectiveness of CT-guided sacroiliac joint injections: A measure of QALY gained. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A**, Witham TF. Posterolateral fusion alone is associated with a higher reoperation rate than PLF with interbody: An analysis of 124 patients. *8th Annual Bayview Research Symposium*. Baltimore, MD.

- 12/13 Bydon M, Abt NB, De la Garza-Ramos R, Macki M, Mathios D, Gokaslan ZL, **Bydon A**. Physician-owned hospitals: A breakdown of objective and subjective patient care data. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, De la Garza-Ramos R, Abt NB, Desai A, Macki M, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A**. Increasing surgeon volume is associated with less postoperative complications after spine surgery. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, Abt NB, De la Garza-Ramos R, Olorundare IO, Macki M, Mathios DM, Sciubba DM, Gokaslan ZL, **Bydon A**. Age is not an independent risk factor in postoperative morbidity after lumbar fusion. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, Lin JA, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Time to surgery does not impact outcomes in cauda equina syndrome: An analysis of 48 cases. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, Ma TM, Xu R, Macki M, De la Garza-Ramos R, Weingart J, Olivi A, Gokaslan ZL, Tamargo RJ, Brem H, **Bydon A**. Surgical outcomes of craniocervical junction meningiomas: A series of 22 consecutive patients. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Macki M, Bydon M, McGovern K, Abt NB, De la Garza-Ramos R, **Bydon A**. Gold fiducial markers in the thoracic spine: A cost comparison with percutaneous vertebroplasty. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, Abt NB, De la Garza-Ramos R, Olorundare IO, Macki M, Mathios D, Sciubba DM, Gokaslan ZL, **Bydon A**. Patients with neck pain have the highest rates of reoperation after posterior cervical foraminotomy: An analysis of 219 cases. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, Abt NB, De la Garza-Ramos R, Macki M, Olorundare IO, Mathios D, Gokaslan ZL, **Bydon A**. Patients with spinal stenosis or spondylolisthesis may have increased risk of postoperative morbidity after anterior lumbar interbody fusion. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 12/13 Bydon M, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A**, Witham TF. The cost-effectiveness of interbody fusions versus posterolateral fusions in 137 patients with lumbar spondylolisthesis. *8th Annual Bayview Research Symposium*. Baltimore, MD.
- 03/14 Bydon M, De la Garza-Ramos R, Macki M, Abt NB, Mathios D, Qadi M, Gokaslan ZL, **Bydon A**. Lumbar Fusion versus Non-Operative Management for Treatment of Discogenic Low Back Pain: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *30th Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves*. Orlando, FL.
- 03/14 Bydon M, Mathios D, Macki M, De la Garza-Ramos R, Sciubba DM, Witham TF, Wolinsky JP, Gokaslan ZL, **Bydon A**. Incidence and Time Frame of Reoperation after Posterior Cervical Foraminotomy. *30th Annual Meeting, AANS/ CNS Section on Disorders of the Spine and Peripheral Nerves*. Orlando, FL.
- 03/14 Bydon M, Xu R, Santiago-Dieppa D, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Adjacent Segment Disease in 501 Cases of Postero-Lateral Instrumented Lumbar Arthrodesis: Floating Fusion versus Distal Construct Including The Sacrum. *30th Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves*. Orlando, FL.
- 03/14 Bydon M, Xu R, Macki M, De la Garza-Ramos R, Wolinsky JP, Gokaslan ZL, **Bydon A**. Biomechanical Impact of C2 Pedicle Screw Length in an Atlantoaxial Fusion Construct. *30th Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves*. Orlando, Florida, USA.
- 03/14 Bydon M, Macki M, De la Garza-Ramos R, Kaloostian P, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A**, Witham TF. Incidence and Prognostic Factors of C5 Palsy: A Clinical Study of 1,001 Cases and Review

of The Literature. *30th Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves*. Orlando, FL.

- 03/14 Bydon M, Xu R, Macki M, De la Garza-Ramos R, Kaloostian P, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Safety and Efficacy of Pedicle Screw Placement Using Intraoperative Computed Tomography: Consecutive Series of 1148 Pedicle Screws. *30th Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves*. Orlando, FL.
- 03/14 Bydon M, Macki M, De la Garza-Ramos R, Abt NB, Gokaslan ZL, Meleka S, **Bydon A**. The Cost-Effectiveness of CT-Guided Sacroiliac Joint Injections: A Measurement of QALY Gained. *30th Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves*. Orlando, FL.
- 03/14 Bydon M, Abt NB, De la Garza-Ramos R, Macki M, Olorundare IO, Gokaslan ZL, **Bydon A**. The Effect of Preoperative Diagnosis in Anterior Lumbar Interbody Fusions: Increased Risk of Postoperative Morbidity in Spinal Stenosis and Spondylolisthesis. *30th Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves*. Orlando, FL.
- 04/14 Bydon M, De la Garza-Ramos R, Xu R, Macki M, Abt NB, Sciubba DM, Witham TF, Wolinsky JP, Gokaslan ZL, **Bydon A**. Instrumented Lumbar Fusion Outcomes Stratified by Preoperative Diagnosis: An Analysis of 790 Patients. *82nd AANS Annual Scientific Meeting*. San Francisco, CA.
- 04/14 Bydon M, De la Garza-Ramos R, Macki M, Abt NB, Qadi M, Gokaslan ZL, **Bydon A**. Trends in Medicare Payments to Physicians and Implantable Medical Device Makers. *82nd AANS Annual Scientific Meeting*. San Francisco, CA.
- 04/14 Bydon M, De la Garza-Ramos R, Macki M, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A**, Witham TF. Spinal Instrumentation in Patients with Primary Spinal Infections Does Not Lead to Higher Recurrent Infection Rates: An Analysis of One Hundred and Eighteen Cases. *82nd AANS Annual Scientific Meeting*. San Francisco, CA.
- 04/14 Bydon M, Abt NB, De la Garza-Ramos R, Macki M, Mathios D, Gokaslan ZL, **Bydon A**. Physician-Owned Hospitals: A Breakdown of Objective and Subjective Patient Care Data. *82nd AANS Annual Scientific Meeting*. San Francisco, CA.
- 04/14 Bydon M, Abt NB, Olorundare IO, De la Garza-Ramos, Macki M, Sciubba DM, Gokaslan ZL, **Bydon A**. Age is Not an Independent Risk Factor in Postoperative Morbidity after Lumbar Fusion: An Analysis of 1,352 Patients Stratified by Decade Cohorts. *82nd AANS Annual Scientific Meeting*. San Francisco, CA.
- 04/14 Bydon M, Desai A, De la Garza-Ramos R, Abt NB, Macki M, Gokaslan ZL, **Bydon A**. Increasing Surgeon Volume is Associated with Less Postoperative Complications After Spine Surgery. *82nd AANS Annual Scientific Meeting*. San Francisco, CA.
- 04/14 Bydon M, Macki M, De la Garza-Ramos R, Abt NB, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. A Wider Posterior Decompression May Increase the Risk of C5 Palsy: An Analysis of 41 Cases. *82nd AANS Annual Scientific Meeting*. San Francisco, CA.
- 04/14 Bydon M, Macki M, De la Garza-Ramos R, Mathios D, Abt NB, Sciubba DM, Wolinsky JP, Gokaslan ZL, Witham TF, **Bydon A**. Posterolateral Fusion Alone is Associated with A Higher Reoperation Rate than Posterolateral Fusion with Interbody Placement: An Analysis of 137 Patients. *82nd AANS Annual Scientific Meeting*. San Francisco, CA.
- 04/14 Bydon A, Lin J, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Cauda Equina Syndrome: The Impact of Time as a Continuous Variable. *82nd AANS Annual Scientific Meeting*. San Francisco, CA.

- 04/14 Bydon M, Macki M, De la Garza-Ramos, McGovern K, Ma M, Gokaslan ZL, **Bydon A**. Gold Fiducial in The Thoracic Spine: A Cost Comparison with Standard Percutaneous Vertebroplasty. *82nd AANS Annual Scientific Meeting*. San Francisco, CA.
- 05/14 Bydon M, De la Garza-Ramos R, Macki M, Baker A, Sciubba DM, Witham TF, Wolinsky JP, Gokaslan ZL, **Bydon A**. Lumbar Fusion versus Non-operative Management for Treatment of Discogenic Low Back Pain: A Systematic Review and Meta-analysis of Randomized Controlled Trials. *2014 Annual Meeting, Lumbar Spine Research Society*. Chicago, IL.
- 05/14 Bydon M, De la Garza-Ramos R, Xu R, Macki M, Abt NB, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Patients with Degenerative Disc Disease have The Highest Rates of Reoperation after Lumbar Fusion: An Analysis of 790 Patients Based on Preoperative Diagnosis. *2014 Annual Meeting, Lumbar Spine Research Society*. Chicago, IL.
- 05/14 Bydon M, Abt NB, Olorundare IO, De la Garza-Ramos R, Macki M, McGovern K, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Age is Not an Independent Risk Factor in Postoperative Morbidity after Lumbar Fusion: An Analysis of 1,352 Patients Stratified by Decade Cohorts. *2014 Annual Meeting, Lumbar Spine Research Society*. Chicago, IL.
- 05/14 Bydon M, Santiago-Dieppa D, Xu R, De la Garza-Ramos R, Macki M, Weingart J, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Long-term outcomes after non-instrumented lumbar arthrodesis. *2014 Annual Meeting, Lumbar Spine Research Society*. Chicago, IL.
- 05/14 Bydon M, Xu R, Santiago-Dieppa D, Macki M, De la Garza-Ramos R, Abt NB, Weingart R, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Adjacent Segment Disease In 511 Cases of Posterolateral Instrumented Lumbar Arthrodesis: Floating Fusion Versus Distal Construct Including The Sacrum. *2014 Annual Meeting, Lumbar Spine Research Society*. Chicago, IL.
- 10/14 Bydon M, Macki M, De la Garza-Ramos R, McGovern K, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. The incidence of adjacent segment disease after lumbar laminectomy: a study of 500 patients. *2014 Congress of Neurological Surgeons Annual Meeting*. Boston, MA.
- 10/14 Bydon M, Macki M, Abt NB, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, Gokaslan ZL, Witham TF, **Bydon A**. Clinical and surgical outcomes after lumbar laminectomy: an analysis of 500 patients. *2014 Congress of Neurological Surgeons Annual Meeting*. Boston, MA.
- 10/14 Bydon M, Abt NB, Macki M, De la Garza-Ramos R, Mathios D, Brem H, Huang J, **Bydon A**, Tamargo RJ. Preoperative anemia increases postoperative morbidity in elective cranial neurosurgery. *2014 Congress of Neurological Surgeons Annual Meeting*. Boston, MA.
- 10/14 Bydon M, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, Gokaslan ZL, Witham TF, **Bydon A**. Smoking is an independent predictor of reoperation following a lumbar laminectomy: a study of 500 cases. *2014 Congress of Neurological Surgeons Annual Meeting*. Boston, MA.
- 10/14 Bydon M, Abt NB, De la Garza-Ramos R, Macki M, Tamargo RJ, Huang J, **Bydon A**. Neoadjuvant chemotherapy is an independent risk factor of stroke, all-cause morbidity, and mortality in elective cranial neurosurgery. *2014 Congress of Neurological Surgeons Annual Meeting*. Boston, MA.
- 10/14 Bydon M, Abt NB, Macki M, De la Garza-Ramos R, Mathios D, Gokaslan ZL, **Bydon A**, Huang J. The impact of resident participation on elective neurosurgical morbidity and mortality: an analysis of 16,098 patients. *2014 Congress of Neurological Surgeons Annual Meeting*. Boston, MA.
- 10/14 Bydon M, Macki M, Qadi M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, Gokaslan ZL, Witham TF, **Bydon A**. The surgical management of atlantoaxial rheumatoid pannus: clinical and radiographic outcomes after posterior instrumented fusion. *2014 Congress of Neurological Surgeons Annual Meeting*. Boston, MA.

- 10/14 Bydon M, De la Garza-Ramos R, Abt NB, Macki M, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Cerebrospinal fluid leak is associated with pseudoarthrosis following lumbar fusion. *2014 Congress of Neurological Surgeons Annual Meeting*. Boston, MA.
- 10/14 Bydon M, De la Garza-Ramos R, Macki M, Abt NB, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A**, Witham TF. The impact of obesity on short- and long-term outcomes following lumbar fusion. *2014 Congress of Neurological Surgeons Annual Meeting*. Boston, MA.
- 10/14 Bydon M, Macki M, De la Garza-Ramos R, Mathios D, Keith S, Gokaslan ZL, **Bydon A**. Posterior cervical fusion leads to spontaneous regression of anteriorly-situated osteophytes. *2014 Congress of Neurological Surgeons Annual Meeting*. Boston, MA.
- 10/14 Bydon M, De la Garza-Ramos R, Macki M, Abt NB, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Incidence of Sacral Fractures and In-Hospital Postoperative Complications in the United States: An Analysis from 2002 to 2011. *2014 American College of Surgeons Clinical Congress*. San Francisco, CA.
- 04/15 Bydon M, Macki M, De la Garza-Ramos R, Murgatroyd A, Mullinix KP, Sun X, **Bydon A**, Cunningham BW, Gokaslan ZL. Comprehensive Biomechanical Analysis of Three Reconstruction Techniques following Total Sacrectomy – An In-Vitro Human Cadaveric Model. *ISASS15*. San Diego, CA.
- 05/15 Bydon M, Mathios D, Macki M, De la Garza-Ramos R, Aygun N, Sciubba DM, Witham TF, Gokaslan ZL, **Bydon A**, Wolinsky JP. Accuracy of C2 Pedicle Screw Placement Using the Anatomic Freehand Technique. *83rd AANS Annual Scientific Meeting*. Washington DC.
- 05/15 Bydon M, Alam R, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Time to C5 Palsy Resolution. *83rd AANS Annual Scientific Meeting*. Washington DC. Bydon M, Syeda S, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Preoperative Motor Strength and Time to Surgery Predict Foot Drop Improvement. *83rd AANS Annual Scientific Meeting*. Washington DC.
- 05/15 De la Garza-Ramos R, Bydon M, Abt NB, Macki M, Ramhamdani S, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Incidence and Risk Factors of Surgical Site Infection following Surgery for Degenerative Spine Disease: An Analysis from 2006 – 2012. *83rd AANS Annual Scientific Meeting*. Washington DC.

Oral/Podium Presentations

- 06/00 **Bydon A**, Thomas AJ, Seyfried D, Malik G. Carotid endarterectomy without shunting in patients with contralateral occlusion. *Michigan Association of Neurological Surgeons Annual Meeting*. Traverse City, MI.
- 03/07 McGirt MJ, Yao KC, Witham TF, **Bydon A**, Chaichana KL, Bitan F, Jallo GI. Value of laminoplasty for prevention of deformity after resection of pediatric spinal cord tumors. *AANS/CNS Spine Section Annual Meeting*. Phoenix, AZ.
- 03/07 McGirt MJ, Yao KC, Witham TF, **Bydon A**, Chaichana KL, Bitan F, Jallo GI. Novel grading scale to predict deformity after resection of pediatric spinal cord tumors. *AANS/CNS Spine Section Annual Meeting*. Phoenix, AZ.
- 03/07 McGirt MJ, Yao KC, Witham TF, **Bydon A**, Chaichana KL, Bitan F, Jallo GI. Increasing degree of resection is associated with prolonged survival in children with malignant spinal cord astrocytoma. *AANS/CNS Spine Section Annual Meeting*. Phoenix, AZ.

- 03/07 McGirt MJ, Yao KC, Witham TF, **Bydon A**, Chaichana KL, Bitan F, Jallo GI. Long-term motor and sensory outcome after resection of pediatric intramedullary spinal cord tumors. *AANS/CNS Spine Section Annual Meeting*. Phoenix, AZ.
- 03/07 **Bydon A**, Gok B, Sciubba DM, Gokaslan ZL, Witham TF. Development of a systematic algorithm for the surgical treatment of cervical spondylotic myelopathy and review of patient outcomes. *5th Annual AOSpine North America (AOSNA) Spine Fellows Forum*. Banff, Alberta, Canada.
- 10/07 McLoughlin G, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Postoperative infection of the instrumented spine: a review of 1,351 procedures over 5 years. *CNS Meeting*. San Diego, CA.
- 10/07 McGirt MJ, Yao KC, Witham TF, **Bydon A**, Chaichana KL, Epstein F, Jallo GI. A Proposed Grading System for Intramedullary Spinal Cord Tumors in Children: Predictive Value for Subsequent Progressive Spinal Deformity. *CNS Annual Meeting*. San Diego, CA.
- 10/07 McGirt MJ, Yao KC, Witham TF, **Bydon A**, Chaichana KL, Bitan F, Epstein F, Jallo GI. Laminoplasty versus Laminectomy Is Associated with a Decreased Incidence of Spinal Deformity after Resection of Intramedullary Spinal Cord Tumors in Children. *CNS Annual Meeting*. San Diego, CA.
- 11/07 McGirt MJ, Yao KC, Witham TF, **Bydon A**, Chaichana KL, Bitan F, Epstein F, Jallo GI. Effect of Laminoplasty on the Incidence of Spinal Deformity after Resection of Intramedullary Spinal Cord Tumors in Children. *AANS/CNS Section on Pediatric Neurological Surgery Annual Meeting*. Miami, FL.
- 11/07 McGirt MJ, Yao KC, Witham TF, **Bydon A**, Chaichana KL, Epstein F, Jallo GI. A Proposed Grading System for Intramedullary Spinal Cord Tumors in Children: Predictive Value for Subsequent Progressive Spinal Deformity. *AANS/CNS Section on Pediatric Neurological Surgery Annual Meeting*. Miami, FL
- 03/08 Sciubba DM, Ayhan S, Nelson C, Noggle JC, Wolinsky JP, Witham TF, **Bydon A**, Gokaslan ZL. Transthoracic surgical treatment for centrally located thoracic disc herniations causing myelopathy: a five-year institutional experience. *24th Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves*. Orlando, FL.
- 10/08 Gok B, McGirt MJ, Sciubba DM, Garces-Ambrossi GL, Nelson C, Noggle JC, **Bydon A**, Witham TF, Wolinsky JP, Gokaslan ZL. Adjuvant treatment with locally delivered Oncogel delays the onset of paresis after surgical resection or radiotherapy of experimental spinal column metastasis. *CNS Meeting*. Orlando, FL.
- 11/08 Gok B, McGirt MJ, Sciubba DM, Garces-Ambrossi GL, Nelson C, Noggle JC, **Bydon A**, Witham TF, Wolinsky JP, Gokaslan ZL. Adjuvant Treatment with Locally Delivered Oncogel Delays the Onset of Paresis After Surgical Resection or Radiotherapy of Experimental Spinal Column Metastasis. *Pan-arab Neurosurgery Annual Congress*. Riyadh, Kingdom of Saudi Arabia.
- 10/09 Bydon M, McGirt MJ, Garces-Ambrossi GL, Sciubba DM, Witham TF, Wolinsky JP, Gokaslan ZL, **Bydon A**. Recurrent lumbar disc herniation after single-level lumbar discectomy: incidence and health care cost analysis. *Annual Meeting of the Congress of Neurological Surgeons*. New Orleans LA.
- 10/09 Liauw J, McGirt MJ, Garces-Ambrossi GL, Parker S, Bydon M, **Bydon A**, Wolinsky JP, Gokaslan ZL, Witham TF. Spinal deformity following laminoplasty versus laminectomy for resection of intradural spinal tumors: analysis of 238 patients. *Annual Meeting of the Congress of Neurological Surgeons*. New Orleans, LA.
- 10/09 Liauw J, McGirt MJ, Xu R, Parker S, Bydon M, Wolinsky JP, Witham T, Gokaslan ZL, **Bydon A**. Surgical factors associated with recurrent back pain and cyst recurrence after surgical resection of spinal synovial cysts: analysis of 160 consecutive cases. *Annual Meeting of the Congress of Neurological Surgeons*. New Orleans, LA.

- 10/09 Parker S, McGirt MJ, Garces-Ambrossi GL, Bydon M, Sciubba DM, Witham TF, **Bydon A**, Wolinsky JP, Jallo G, Gokaslan ZL. Factors associated with long-term neurological outcome and tumor progression after resection of intramedullary spinal cord tumors: analysis of 101 consecutive cases. *Annual Meeting, Congress of Neurological Surgeons*. New Orleans, LA.
- 10/09 Parker S, McGirt MJ, Mehta V, Bydon M, Sciubba DM, **Bydon A**, Witham TF, Gokaslan ZL, Wolinsky JP. Trans-laminar versus pedicle screw fixation of C2: comparison of surgical morbidity and analysis of 313 consecutive screws. *Annual Meeting, Congress of Neurological Surgeon*. New Orleans, LA.
- 11/09 McGirt MJ, Sutter E, Xu R, Sciubba DM, Witham T, Wolinsky JP, Gokaslan ZL, **Bydon A**. Biomechanical comparison of translaminar versus pedicle screws at T1 and T2 in long subaxial cervical constructs. *North American Spine Society Meeting*. San Francisco, CA.
- 11/09 McGirt MJ, Xu R, Parker SL, Bydon M, Wolinsky JP, Witham T, Gokaslan ZL, **Bydon A**. Surgical factors associated with recurrent back pain and cyst recurrence after surgical resection of spinal synovial cysts: analysis of 160 consecutive cases. *North American Spine Society Meeting*. San Francisco, CA.
- 11/09 McGirt MJ, Parker SL, Garces-Ambrossi GL, Mehta V, Sciubba DM, **Bydon A**, Gokaslan ZL, Wolinsky JP, Witham TF. Trans-laminar versus pedicle screw fixation of C2: comparison of surgical morbidity and analysis of 313 consecutive screws. *North American Spine Society Meeting*. San Francisco, CA.
- 11/09 McGirt MJ, Garces-Ambrossi GL, Parker SL, Sciubba DM, **Bydon A**, Wolinsky JP, Gokaslan ZL, Witham TF. Spinal deformity following laminoplasty versus laminectomy for resection of intradural spinal tumors: analysis of 238 patients. *North American Spine Society Meeting*. San Francisco, CA.
- 11/09 McGirt MJ, Parker S, Wolinsky JP, Witham T, **Bydon A**, Gokaslan Z. Vertebroplasty and kyphoplasty for the treatment of vertebral compression fractures: an evidenced based review of the literature. *North American Spine Society Meeting*. San Francisco, CA.
- 02/10 Parker SL, McGirt MJ, Farber H, Amin AG, Rick AM, Suk I, **Bydon A**, Sciubba DM, Wolinsky JP, Gokaslan ZL, Witham TF. Accuracy of free hand pedicle screws in the thoracic and lumbar spine: Analysis of 6,816 consecutive screws. *AANS/CNS Spine Section Meeting*. Orlando, FL.
- 02/10 Parker SL, Amin AG, Farber H, McGirt MJ, **Bydon A**, Sciubba DM, Wolinsky JP, Gokaslan ZG, Witham TF. The ability of electromyographic monitoring to determine the presence of malpositioned pedicle screws in the lumbosacral spine: Analysis of 2450 consecutive cases. *AANS/CNS Spine Section Meeting*. Orlando, FL.
- 02/10 Parker SL, McGirt MJ, Xu R, Wolinsky JP, Witham TF, Gokaslan ZG, **Bydon A**. Surgical factors associated with recurrent back pain and cyst recurrence after surgical resection of spinal synovial cysts: Analysis of 160 consecutive cases. *AANS/CNS Spine Section Meeting*. Orlando, FL.
- 02/10 Richman J, Defontes K, Zaidi H, Flerlage T, Molina CA, Hsu W, **Bydon A**, Gokaslan ZL, Witham TF, Wolinsky JP, Sciubba DM. C5 Radiculopathy as a complication of cervical spine surgery. *AANS/CNS Spine Section Meeting*. Orlando, FL.
- 02/10 Xu R, McGirt MJ, Sutter EG, Parker SL, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZG, **Bydon A**. Biomechanical comparison of C7 lateral mass vs pedicle screws in subaxial cervical constructs. *AANS/CNS Spine Section Meeting*. Orlando, FL.
- 02/10 Molina CA, Flerlage T, Richman J, Hsu W, Gregory A, Gokaslan ZL, **Bydon A**, Witham TF, Wolinsky JP, Sciubba DM. Evaluating the effects of rhBMP-2 on an intravertebral human breast adenocarcinoma rat model. *AANS/CNS Spine Section Meeting*. Orlando, FL.
- 02/10 Molina CA, Hsu W, Gregory A, Flerlage T, Richman J, Thurston J, Gorbounov M, Gokaslan ZL, **Bydon A**, Witham TF, Wolinsky JP, Sciubba DM. Development of a novel intravertebral human breast

adenocarcinoma rat model for the study of intravertebral metastatic spine disease. *AANS/CNS Spine Section Meeting*. Orlando, FL.

- 02/10 Flerlage T, Richman J, Molina CA, Hsu W, Ford E, Lim M, Gokaslan ZL, **Bydon A**, Witham TF, Wolinsky JP, Sciubba DM. Treatment of intramedullary spinal cord tumors with stereotactic radiosurgery. *AANS/CNS Spine Section Meeting*. Orlando, FL.
- 02/10 Parker SL, McGirt MJ, Xu R, Witham TF, Gokaslan ZG, **Bydon A**. Long-term back pain after single level discectomy for radiculopathy: Incidence and healthcare cost analysis. *AANS/CNS Spine Section Meeting*. Orlando, FL.
- 02/10 Richman J, Hsu W, Ford E, Lim M, Flerlage T, Gorbounov M, Thurston J, Molina CA, Gokaslan ZL, Witham TF, **Bydon A**, Sciubba DM. Stereotactic radiation dose escalation for the treatment of metastatic tumors of the lumbar spine. *AANS/CNS Spine Section Meeting*, Orlando, FL.
- 02/10 Flerlage T, Solacoglu C, Gokaslan ZL, Wolinsky JP, **Bydon A**, Witham TF, Sciubba DM. Giant cell tumors of the spine: A series of nine cases. *AANS/CNS Spine Section Meeting*. Orlando, FL.
- 05/10 Parker SL, McGirt MJ, Farber H, Amin AG, Rick AM, Suk I, **Bydon A**, Sciubba DM, Wolinsky JP, Gokaslan ZL, Witham TF. Accuracy of free hand pedicle screws in the thoracic and lumbar spine: Analysis of 6,816 consecutive screws. *AANS Meeting*. Philadelphia, PA.
- 05/10 Parker SL, Amin AG, Farber H, McGirt MJ, **Bydon A**, Sciubba DM, Wolinsky JP, Gokaslan ZG, Witham TF. The ability of electromyographic monitoring to determine the presence of malpositioned pedicle screws in the lumbosacral spine: Analysis of 2450 consecutive cases. *AANS Meeting*. Philadelphia, PA.
- 07/10 Xu R, McGirt MJ, Sutter EG, Parker SL, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZG, **Bydon A**. Biomechanical comparison of C7 lateral mass vs pedicle screws in subaxial cervical constructs. *15th congress, Syrian society of neurological surgeons*. Damascus, Syria.
- 10/10 Xu R, Ritzl E, Sait M, McGirt M, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. A role for motor and somatosensory evoked potentials during anterior cervical discectomy and fusion for patients without myelopathy: Analysis of 57 consecutive cases. *CNS Annual Meeting*. San Francisco, CA.
- 10/10 Dasenbrock HH, Pendleton C, McGirt M, Sciubba DM, Gokaslan ZL, Quinones-Hinojosa A, **Bydon A**. Fulfilling the chief of his or her duties as a physician: Harvey Cushing, dorsal rhizotomy, and the foundation of surgery for quality of life. *CNS Annual Meeting*. San Francisco, CA.
- 10/10 Adogwa O, Parker S, **Bydon A**, Cheng JS, McGirt M. Comparative effectiveness of minimally invasive versus open transforaminal lumbar interbody fusion: two-year assessment of pain, disability, quality of life, and return to work. *CNS Annual Meeting*. San Francisco, CA.
- 03/11 Molina CA, Gokaslan ZL, Witham TF, **Bydon A**, Wolinsky JP, Sciubba DM. The impact of surgeon professional fees to the national cost of healthcare. *27th annual meeting, AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Molina CA, Sarabia-Estrada R, Panayotova G, Aguilera A, Gokaslan ZL, Wolinsky JP, **Bydon A**, Sciubba DM. In situ placement of high dose rhBMP-2 within spine tumors slows tumor growth and decreases onset to paralysis in a rat model of metastatic breast cancer. *27th annual meeting, AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Parker S, Amin A, **Bydon A**, Sciubba DM, Wolinsky JP, Gokaslan ZL, Witham TF. Incidence of vascular encroachment resulting from free hand placement of pedicle screws in the thoracic and lumbar spine: analysis of 6,816 consecutive screws. *27th annual meeting, AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.

- 03/11 Dasenbrock HH, Clarke MJ, **Bydon A**, Witham TF, Sciubba DM, Simmons OP, Gokaslan ZL, Wolinsky JP. Reconstruction of extensive defects from posterior en bloc resection of sacral tumors using human acellular dermal matrix and gluteus maximus myocutaneous flaps. *27th annual meeting, AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Clarke MJ, Sciubba DM, McGirt MJ, Witham TF, **Bydon A**, Hsieh PC, Gokaslan ZL, Wolinsky JP. Clinical Outcomes following en bloc sacrectomies via posterior approach. *27th annual meeting, AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Sciubba DM, Molina CA, Gokaslan ZL, Chou D, Wolinsky JP, Witham TF, **Bydon A**, Ames CP. En bloc resection of cervical chordomas: series of 12 patients and clinical outcomes. *27th annual meeting, AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Dasenbrock HH, Witham TF, Sciubba DM, Gokaslan ZL, **Bydon A**. The impact of Weekend hospital admission on the timing of intervention and outcomes after surgery for acute spinal cord injury in the United States, 2005-2008. *27th annual meeting, AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Dasenbrock HH, Bydon M, Yenokyan G, Witham TF, Gokaslan ZL, **Bydon A**. Long-term outcomes of patients with multilevel ossification of the posterior longitudinal ligament after laminectomy, laminoplasty, and laminectomy and fusion: a meta-analysis of observational studies. *27th annual meeting, AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 03/11 Dasenbrock HH, Clarke MJ, **Bydon A**, Sciubba DM, Witham TF, Gokaslan ZL, Wolinsky JP. Endoscopic image-guided transcervical odontoidectomy; long-term outcomes of 15 patients with basilar invagination. *27th annual meeting, AANS/CNS section on disorders of the Spine and Peripheral Nerves*. Phoenix, AZ.
- 04/11 Dasenbrock HH, Bydon M, Yenokyan G, Witham TF, Gokaslan ZL, **Bydon A**. Long-term Outcomes of Patients with Multilevel Cervical Spondylotic Myelopathy after Laminectomy, Laminoplasty and Laminectomy & Fusion: A Meta Analysis of Observational Studies. *AANS Annual Scientific meeting*. Denver, CO.
- 04/11 Dasenbrock HH, Witham TF, Wolinsky JP, Gokaslan ZL, **Bydon A**. Disparities Based on Insurance Status in the Timing of Intervention and Outcomes after Surgery for Acute Spinal Cord Injury in the United States: 2005 – 2008. *AANS Annual Scientific meeting*. Denver, CO.
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- 10/11 Dasenbrock HH, Witham TF, Wolinsky JP, Gokaslan ZL, **Bydon A**. The Efficacy of Minimally Invasive Discectomy Compared to Open Discectomy: A Meta-Analysis of Prospective Randomized Controlled Trials. *European association of neurological societies. 14th European congress of Neurosurgery*. Rome, Italy.
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- 11/11 **Bydon A**, Dasenbrock HH, Witham TF, Gokaslan ZL. Disparities Based on Insurance Status in the Outcomes After Surgery for Acute Spinal Cord Injury in the United States, 2005-2008. *NASS 26th Annual Meeting*. Chicago, IL.
- 11/11 **Bydon A**, Dasenbrock HH, Bydon M, Witham TF, Gokaslan ZL. Long-Term Outcomes of Patients with Multilevel Cervical Spondylotic Myelopathy After Laminectomy, Laminoplasty and Laminectomy and Fusion: A Meta-Analysis of Observational Studies. *NASS 26th Annual Meeting*. Chicago, IL.
- 11/11 **Bydon A**, Dasenbrock HH, Sciubba DS, Gokaslan ZL. Disparities Based on Race or Ethnicity in the Outcomes After Surgery for Metastatic Spine Disease in the United States: 2005-2008. *NASS 26th Annual Meeting*. Chicago, IL.
- 11/11 Molina C, Sarabia-Estrada R, Gokaslan ZL, Wolinsky, JP, **Bydon A**, Sciubba DS. In Situ Placement of High-Dose rhBMP-2 within Spine Tumors Slows Tumor Growth and Decreases Onset to Paralysis in a Rat Model of Metastatic Breast Cancer. *NASS 26th Annual Meeting*. Chicago, IL.
- 11/11 Molina C, Gokaslan ZL, Witham TF, **Bydon A**, Wolinsky JP, Sciubba DS. The Impact of Surgeon Professional Fees to the National Cost of Healthcare. *NASS 26th Annual Meeting*. Chicago, IL.
- 11/11 Molina C, Sciubba DM, Gokaslan ZL, Chou D, Wolinsky JP, Witham TF, **Bydon A**, Ames C. En Bloc Resection of Cervical Chordomas: Comparing Outcomes to Tumor Position. *NASS 26th Annual Meeting*. Chicago, IL.
- 06/13 Bydon M, Sciubba DM, Gokaslan ZL, Wolinsky JP, Witham TF, **Bydon A**. Adjacent Segment Disease after ACDF: Incidence and clinical outcomes of patients requiring anterior versus posterior repeat cervical fusion. *Society for Progress and Innovation in the Near East (SPINE) 2013 Annual Meeting*. Beirut, Lebanon.
- 06/13 Bydon M, Sciubba DM, Gokaslan ZL, Wolinsky JP, Witham TF, **Bydon A**. Adjacent Segment Disease after ACDF: Development of adjacent segment disease is more likely to occur above the index ACDF level. *World Association of Lebanese Neurosurgeons Home Coming Meeting*. Beirut, Lebanon.
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- 06/13 Bydon M, Sciubba DM, Gokaslan ZL, Wolinsky JP, Witham TF, **Bydon A**. Safety and efficacy of an ultrasonic bone curette in reduction of intraoperative durotomies: Outcomes in 337 patients. *World Association of Lebanese Neurosurgeons Home Coming Meeting*. Beirut, Lebanon.
- 06/13 Bydon M, Sciubba DM, Gokaslan ZL, Wolinsky JP, Witham TF, **Bydon A**. Safety and efficacy of pedicle screw placement using intraoperative computed tomography: Consecutive series of 1148 pedicle screws. *World Association of Lebanese Neurosurgeons Home Coming Meeting*. Beirut, Lebanon.
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- 03/14 Bydon M, Macki M, De la Garza-Ramos R, Kaloostian P, Sciubba DM, Wolinsky JP, Gokaslan ZL, **Bydon A**, Witham TF. Incidence and Prognostic Factors of C5 Palsy: A Clinical Study of 1,001 Cases and Review of The Literature. *30th Annual Meeting, AANS/CNS Section on Disorders of the Spine and Peripheral Nerves*. Orlando, FL.
- 04/14 Bydon A, Lin J, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Cauda Equina Syndrome: The Impact of Time as a Continuous Variable. *82nd AANS Annual Scientific Meeting*. San Francisco, CA.
- 05/14 Bydon M, Santiago-Dieppa D, Xu R, De la Garza-Ramos R, Macki M, Weingart J, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Long-term outcomes after non-instrumented lumbar arthrodesis. *2014 Annual Meeting, Lumbar Spine Research Society*. Chicago, IL.
- 05/14 Bydon M, Xu R, Santiago-Dieppa D, Macki M, De la Garza-Ramos R, Abt NB, Weingart J, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Adjacent Segment Disease In 511 Cases of Posterolateral Instrumented Lumbar Arthrodesis: Floating Fusion Versus Distal Construct Including The Sacrum. *2014 Annual Meeting, Lumbar Spine Research Society*. Chicago, IL.
- 10/14 Bydon M, Abt NB, Macki M, De la Garza-Ramos R, Mathios D, Gokaslan ZL, **Bydon A**, Huang J. The impact of resident participation on elective neurosurgical morbidity and mortality: an analysis of 16,098 patients. *2014 Congress of Neurological Surgeons Annual Meeting*. Boston, MA.
- 10/14 Bydon M, De la Garza-Ramos R, Abt NB, Macki M, Sciubba DM, Wolinsky JP, **Bydon A**, Gokaslan ZL, Witham TF. Cerebrospinal fluid leak is associated with pseudoarthrosis following lumbar fusion. *2014 Congress of Neurological Surgeons Annual Meeting*. Boston, MA.
- 10/14 Bydon M, De la Garza-Ramos R, Macki M, Abt NB, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Incidence of Sacral Fractures and In-Hospital Postoperative Complications in the United States: An Analysis from 2002 to 2011. *2014 American College of Surgeons Clinical Congress*. San Francisco, CA.
- 3/16 Kosztowski T, Xia Y, De la Garza-Ramos R, Xu R, Goodwin RC, Elder B, Ramhmdani S, Sciubba DM, Gokaslan ZL, **Bydon A**. Proximal Instrumentation Failure Rates of C2 pedicle Screws versus C3 Lateral Mass Screws in Posterior Cervical Fusion Constructs. *The 67th Annual Meeting of the Southern Neurosurgical Society*. San Antonio, TX.
- 3/16 De la Garza-Ramos R, Xu R, Ramhmdani S, Kosztowski T, Bydon M, Sciubba DM, Wolinsky JP, Witham TF, Gokaslan ZL, **Bydon A**. Long-term Clinical Outcomes following Three- and Four-level Anterior Cervical Discectomy and Fusion. *The 67th Annual Meeting of the Southern Neurosurgical Society*. San Antonio, TX.
- 3/16 Ramhmdani S, Xu R, De la Garza-Ramos R, Sciubba DM, **Bydon A**. Iatrogenic Spondylolisthesis after Lumbar Laminectomy. *Joint Section on Disorders of the Spine and Peripheral Nerves Meeting*. Orlando, FL.
- 3/16 Kosztowski T, Xia Y, De la Garza-Ramos R, Xu R, Goodwin RC, Elder B, Ramhmdani S, Sciubba DM, Gokaslan ZL, **Bydon A**. Proximal Instrumentation Failure Rates of C2 pedicle Screws versus C3 Lateral Mass Screws in Posterior Cervical Fusion Constructs. *Joint Section on Disorders of the Spine and Peripheral Nerves Meeting*. Orlando, FL.