

CURRICULUM VITAE
ZIYA L. GOKASLAN, M.D. F.A.C.S.

Rhode Island Hospital
Department of Neurosurgery
593 Eddy Street
Providence, RI 02903
Phone (401) 793-9132
Fax (401) 444-2781
ziya_gokaslan@brown.edu

Google Scholar		
	All	Since 2019
Citations	44262	17923
h-index	104	61
i10-index	489	376
Publications	600	169

EDUCATION

Medical School	Istanbul Faculty of Medicine (Valedictorian) University of Istanbul, Turkey M.D., 1983
----------------	--

POSTGRADUATE TRAINING

Fellowship	Post-Doctoral Clinical Research Department of Psychiatry, Sleep Disorder & Research Center Baylor College of Medicine, Houston, TX 1984-1985
Internship	General Surgery Baylor College of Medicine, Houston, TX 1985-1986
Fellowship	Clinical Research, Neurotraumatology Baylor College of Medicine, Houston, TX 1986-1988
Residency	Neurosurgery Baylor College of Medicine, Houston, TX 1988-1993
Fellowship	Clinical Spinal Surgery New York University Medical Center, New York, NY 1993-1994

POSTGRADUATE HONORS AND AWARDS

American Board of Neurological Surgery, Scholars in Residency, 2017 – Present
North American Spine Society Leon Wiltse Award, 2014
Congress of Neurological Surgeons Resident Trauma Research Award, 1987
Congress of Neurological Surgeons AME Spine Fellowship Award, 1993
Best Doctors in America, 1999, 2005, 2006, 2008, 2010, 2011, 2012
Fellow of American College of Surgeons, 1999
Faculty Achievement Award in Patient Care, UT M.D. Anderson Cancer Center, 2001
Donlin M. Long Professor of Neurosurgery, Johns Hopkins University, 2003
Julius Stoll Professor of Neurosurgery, Warren Alpert Medical School of Brown University, Lifespan, 2015-Present
Richard J. Ostenasek, Jr. Faculty Award, Johns Hopkins University, 2003, 2015
Elected Member, Society of Neurological Surgeons, 2004
Elected Member, American Academy of Neurosurgeons, 2013-present
Elected Member, World Academy of Neurosurgeons, 2014-present
Baltimore Magazine Top Doctors, 2007
America's Top Doctors, American Registry, 2008 - 2014

Patient's Choice Award, One of Maryland's Favorite Physicians, 2010
 Compassionate Doctor Award, One of the Most Compassionate Doctors of America, 2010
 Patient's Choice Award, One of Maryland's Favorite Physicians, 2011
 Compassionate Doctor Award, One of the Most Compassionate Doctors of America, 2011
 Patient's Choice Award, One of Maryland's Favorite Physicians, 2012
 Washington-Baltimore Top Doctors, 2012
 Castle Connolly Top Doctors, 2012

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Medical Licensure	Texas, License #H7150, 1990 California, License #A049007, 1990 New York, License #192346, 1993 Maryland, License #D0058481, 2002 Rhode Island, License #15002, 2015
Board Certification	American Board of Neurological Surgery, 1997

ACADEMIC APPOINTMENTS

Clinical Assistant Professor of Neurosurgery	Baylor College of Medicine, Department of Neurosurgery, Houston, TX 1994-2002
Assistant Professor of Neurosurgery	UT M.D. Anderson Cancer Center, Department of Neurosurgery, Houston, TX 1994-2000
Associate Professor of Neurosurgery (tenured)	UT M.D. Anderson Cancer Center, Department of Neurosurgery, Houston, TX 2000-2002
Professor of Neurosurgery, Oncology and Orthopaedic (Surgery Donlin M. Long Endowed Chair)	Johns Hopkins University School of Medicine, Department of Neurosurgery, 2002-2015
Professor and Chairman of Neurosurgery (Julius Stoll, Endowed Chair)	Warren Alpert Medical School of Brown University, Department of Neurosurgery, 2015-Present

HOSPITAL APPOINTMENTS

Chief, Neurosurgery Clinic	Department of Neurosurgery, UT M.D. Anderson Cancer, Houston, TX 1995-1996
Chief, Spinal Oncology Program	Department of Neurosurgery, UT M.D. Anderson Cancer Center, Houston, TX 1999-2002
Deputy Chair	Department of Neurosurgery, UT M.D. Anderson Cancer, Houston, TX 2000-2002
Vice-Chairman	Department of Neurosurgery, Johns Hopkins School of Medicine, Baltimore, MD 2002-2015
Director, Neurosurgical Spine Program	Department of Neurosurgery, Johns Hopkins School of Medicine, Baltimore, MD 2002-2015
Co-Director	Carnegie Center for Surgical Innovation, Johns Hopkins School of Medicine 2014-2015

Neurosurgeon in Chief

Rhode Island Hospital and The Miriam Hospital, Providence, RI
2015-Present

HOSPITAL COMMITTEES

Member, Quality Improvement, UT M.D. Anderson Cancer Center– Alternate, 1995-2002
Point of Contact, Disaster Ride-out Team, 1995-2002
Member, Clinical Research Committee, UT M.D. Anderson Cancer Center , 1997-1999
Member, PRS Business Operations & Fees Committee, UT M.D. Anderson Cancer Center, 1998-2002
Member, Pharmacy and Therapeutics Committee, 1998-2001
Vice Chair, Medical Practice Committee, UT M.D. Anderson Cancer Center, 2000-2002
Member, M. D. Anderson Associates Steering Committee, 2000-2001
Member at Large, Executive Committee of Medical Staff, UT M.D. Anderson Cancer Center 2001-2002
Member, CPA Contracting Committee, Johns Hopkins University, Baltimore, MD 2004-2015
Member, Johns Hopkins Medical Staff Conference Committee, 2007-2012
Chair, Johns Hopkins Medical Staff Conference Committee, 2010-2015
Member, Johns Hopkins CPA Contracting Committee, 2007-2015
Member, Johns Hopkins Value Analysis Committee, 2007-2015
Board Member, Lifespan Board of Directors, 2019-present
Chair, Lifespan Risk Services' Claims Committee, 2021 –
Member, Rhode Island Hospital Ethics Committee, 2022 –
Member, Board of Directors, Credentials Committee, 2022 –
Member, Lifespan Finance & Administration Committee, 2023 –

UNIVERSITY COMMITTEES

Member, Faculty Senate, UT M.D. Anderson Cancer Center, 1996-2002
Member, Promotions Committee, Division of Surgery, UT M.D. Anderson Cancer Center, 1998-2002
Member, Neuroscience Promotions Committee, JHU, 2002-2015
Member, Johns Hopkins University Promotions Committee, 2002-2015
Member, Johns Hopkins University Policy in Health Affairs, 2003-2015
Director, Johns Hopkins International, Anadolu Medical Center, 2006-2015
Member, Johns Hopkins School of Medicine Admissions Committee, 2007-2015
Member, The Warren Alpert Medical School of Brown University, Admissions Committee 2017-present
Member, Carney Brain Science Institute, Brown University, Executive Committee, 2015-present

MEMBERSHIP IN SOCIETIES

Board Member, AO North America Board of Directors, 2006-2009
Board Member, World Spinal Column Society, 2014-Present
Chairman, AO ASIF Committee on “Tumor, Infection & Osteoporosis,” 2000-2006
Chairman, Fellowship & Awards Coordinating Committee of the AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves, 2000-2010
Chairman, AO ASIF, North American Education Committee, 2003-Present
Chairman, AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves, 2010 – 2011
Chairman, AO Knowledge Forum Steering Committee, 2014-2017
Chairman, Spinal Oncology Study Group 2014-2017
Trustee, AO Foundation Board of Trustees, 2009-2012
Member, American Medical Association, 1984-2002
Member, Harris County Medical Society, 1986-2002
Member, Houston Neurological Society, 1986-2002
Member, North American Spine Society, 1994-Present
Member, Texas Medical Association, 1995-2002
Member, Texas Association of Neurological Surgeons, 1996-2002
Member, Congress of Neurological Surgeons, 1997-Present
Member, The American Association of Neurological Surgeons, 1998-Present

Member, American College of Surgeons, 1999-Present
 Member, Ethics Committee of the North American Spine Society (NASS), 1999-2001
 Member, American Society of Clinical Oncology, 2001-Present
 Member, North American Spine Society Recognition and Awards Committee, 2001-2004
 Member, AO ASIF, North American Education Committee, 2001-2003
 Member, Cervical Spine Research Society, 2003-Present
 Member, Scoliosis Research Society, 2005-Present
 Member, Society of Neurological Surgeons, 2007-Present
 Member, Senior Advisory Council to the Executive Committee, AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves, 2008-Present
 Member, AO Knowledge Forum Steering Committee, 2017-present
 Member, World Academy of Neurological Surgery, 2015-present
 Member, American Academy of Neurosurgeons, 2013-present
 Member, American Association of Neurological Surgery, Executive Committee, 2010-2011
 Member, Cervical Spine Research Society Travelling Fellowship Committee, December 2020 – December 2023.

EDITORIAL ACTIVITIES

Editorial Board Appointments

1. Journal of Neurosurgery Spine (Co-Chief Editor) 2012-2013
2. Journal of Neurosurgery Spine Editorial Board) 2006-2012
3. World Neurosurgery (Spine Section Editor) 2018 - Present
4. Journal of Spinal Disorders & Techniques, 2001-Present
5. The Spine Journal, 2003-present (Associate Editorial Board Member).
6. The Journal of Neurosurgery: Spine, 2006-2013
7. The European Spine Journal, 2006-Present
8. Nature Reviews in Neurology, 2006-2021
9. Journal of Surgical Oncology, (Neurooncology, Section Editor) 2008-Present
10. World Neurosurgery, 2010-Present
11. Frontiers in Surgery, Section in Neurosurgery, 2015-Present
12. Neurospine – Special Issue, 2021

Journal Reviewer

1. Neurosurgery (ad hoc reviewer), 1996-present.
2. Journal of Neuro-Oncology (ad hoc reviewer), 1997-present.
3. Journal of Neurosurgery, Neurosurgical Focus 2001 – present.
4. Journal of Neurology, Neurosurgery and Psychiatry (ad hoc reviewer), 2001-present.
5. Acta Orthopaedica Traumatologica Turcica, 2013-present.

PEER-REVIEWED PUBLICATIONS

1. Robertson CS, Narayan RK, **Gokaslan ZL**, Pahwa R, Grossman RG, Caram P Jr, Allen E. Cerebral arteriovenous oxygen difference as an estimate of cerebral blood flow in comatose patients. J Neurosurg. 1989 Feb;70(2): 222-30.
2. Robertson CS, Narayan RK, Contant CF, Grossman RG, **Gokaslan ZL**, Pahwa R, Caram P Jr, Bray RS Jr, Sherwood AM. Clinical experience with a continuous monitor of intracranial compliance. J Neurosurg. 1989 Nov;71(5 Pt 1): 673-80.
3. Robertson CS, Contant CF, **Gokaslan ZL**, Narayan RK, Grossman RG. Cerebral blood flow, arteriovenous oxygen difference, and outcome in head injured patients. J Neurol Neurosurg Psychiatry. 1992 Jul;55(7): 594-603.
4. Mawad ME, Mawad JK, Cartwright J Jr, **Gokaslan ZL**. Long-term histopathologic changes in canine aneurysms embolized with Guglielmi detachable coils. AJNR Am J Neuroradiol. 1995 Jan;16(1):7-13.
5. Rao VH, Bridge JA, Neff JR, Schaefer GB, Buehler BA, Viswanatha JK, **Gokaslan ZL**, Pollock RE, Nicolson GL, Yamamoto M, Stetler-Stevenson WG, Sawaya R, Rao JS: Expression of 72-kDa and 92kDa Type IV collagenases from human giant cell tumor of bone. Clin Exp Metastasis 13:420-426, 1995.
6. Rao JS, Yamamoto M, Mohaman S, **Gokaslan ZL**, Fuller GN, Stetler-Stevenson WG, Rao VH, Liotta LA, Nicolson GL, Sawaya RE. Expression and localization of 92-kDa type IV collagenase/gelatinase B (MMP-9) in human gliomas. Clin Exp Metastasis. 1996 Jan;14(1):12-8.

7. Sivaparthi M, Yamamoto M, Nicolson GL, **Gokaslan ZL**, Fuller GN, Liotta LA, Sawaya R, Rao JS. Expression and immunohistochemical localization of cathepsin L during the progression of human gliomas. *Clin Exp Metastasis*. 1996 Jan;14(1):27-34.
8. Sawaya RE, Yamamoto M, **Gokaslan ZL**, Wang SW, Mohanam S, Fuller GN, McCutcheon IE, Stetler-Stevenson WG, Nicolson GL, Rao JS. Expression and localization of 72 kDa type IV collagenase (MMP-2) in human malignant gliomas in vivo. *Clin Exp Metastasis*. 1996 Jan;14(1):35-42.
9. Yamamoto M, Mohanam S, Sawaya R, Fuller GN, Seiki M, Sato H, **Gokaslan ZL**, Liotta LA, Nicolson GL, Rao JS. Differential expression of membrane-type matrix metalloproteinase and its correlation with gelatinase A activation in human malignant brain tumors in vivo and in vitro. *Cancer Res*. 1996 Jan 15;56(2):384-92.
10. Chintala SK, Sawaya R, **Gokaslan ZL**, Fuller G, Rao JS. Immunohistochemical localization of extracellular matrix proteins in human glioma, both in vivo and in vitro. *Cancer Lett*. 1996 Mar 19;101(1):107-14.
11. Rao JS, Sawaya R, **Gokaslan ZL**, Yung WK, Goldstein GW, Laterra J. Modulation of serine proteinases and metalloproteinases during morphogenic glial-endothelial interactions. *J Neurochem*. 1996 Apr;66(4):1657-64.
12. Chintala SK, Sawaya R, **Gokaslan ZL**, Rao JS. The effect of type III collagen on migration and invasion of human glioblastoma cell lines in vitro. *Cancer Lett*. 1996 Apr 19;102(1-2):57-63.
13. Sivaparthi M, Sawaya R, Chintala SK, Go Y, **Gokaslan ZL**, Rao JS. Expression of cathepsin D during the progression of human gliomas. *Neurosci Lett*. 1996 Apr 26;208(3):171-4.
14. **Gokaslan ZL**. Spine surgery for cancer. *Curr Opin Oncol*. 1996 May;8(3):178-81.
15. Chintala SK, Sawaya R, **Gokaslan ZL**, Rao JS. Modulation of matrix metalloproteinase-2 and invasion in human glioma cells by alpha 3 beta 1 integrin. *Cancer Lett*. 1996 Jun 5;103(2):201-8.
16. Sivaparthi M, Sawaya R, **Gokaslan ZL**, Chintala SK, Rao JS. Expression and the role of cathepsin H in human glioma progression and invasion. *Cancer Lett*. 1996 Jun 24;104(1):121-6.
17. Chintala SK, **Gokaslan ZL**, Go Y, Sawaya R, Nicolson GL, Rao JS. Role of extracellular matrix proteins in regulation of human glioma cell invasion in vitro. *Clin Exp Metastasis*. 1996 Sep;14(4):358-66.
18. Go Y, Chintala SK, Oka K, **Gokaslan Z**, Sawaya R, Rao JS. Invasive pattern of lac-Z-transfected human glioblastoma cells in nude mice brain. *Cancer Lett*. 1996 Dec 20;110(1-2):225-31.
19. Mohanam S, Chintala SK, Go Y, Bhattacharya A, Venkaiah B, Boyd D, **Gokaslan ZL**, Sawaya R, Rao JS. In vitro inhibition of human glioblastoma cell line invasiveness by antisense uPA receptor. *Oncogene*. 1997 Mar 20;14(11):1351-9.
20. Chintala SK, Ali-Osman F, Mohanam S, Rayford A, Go Y, **Gokaslan ZL**, Gagercas E, Venkaiah B, Sawaya R, Nicolson GL, Rao JS. Effect of cisplatin and BCNU on MMP-2 levels in human glioblastoma cell lines in vitro. *Clin Exp Metastasis*. 1997 Jul;15(4):361-7.
21. Go Y, Chintala SK, Mohanam S, **Gokaslan Z**, Venkaiah B, Bjerkvig R, Oka K, Nicolson GL, Sawaya R, Rao JS. Inhibition of in vivo tumorigenicity and invasiveness of a human glioblastoma cell line transfected with antisense uPAR vectors. *Clin Exp Metastasis*. 1997 Jul;15(4):440-6.
22. Go Y, Chintala SK, Rayford A, Gagercas E, Ali-Osman F, Venkaiah B, Sawaya R, **Gokaslan Z**, Nicolson GL, Rao JS. Cisplatin but not BCNU inhibits urokinase-type plasminogen activator levels in human glioblastoma cell lines in vitro. *Clin Exp Metastasis*. 1997 Jul;15(4):447-52.
23. **Gokaslan ZL**, Samudrala S, Deletis V, Wildrick DM, Cooper PR. Intraoperative monitoring of spinal cord function using motor evoked potentials via transcutaneous epidural electrode during anterior cervical spinal surgery. *J Spinal Disord*. 1997 Aug;10(4):299-303.
24. **Gokaslan ZL**, Romsdahl MM, Kroll SS, Walsh GL, Gillis TA, Wildrick DM, Leavens ME. Total sacrectomy and Galveston L-rod reconstruction for malignant neoplasms. Technical note. *J Neurosurg*. 1997 Nov;87(5):781-7.
25. Chintala SK, Mohanam S, Go Y, Venkaiah B, Sawaya R, **Gokaslan ZL**, Rao JS. Altered in vitro spreading and cytoskeletal organization in human glioma cells by downregulation of urokinase receptor. *Mol Carcinog*. 1997 Dec;20(4):355-65.
26. Walsh GL, **Gokaslan ZL**, McCutcheon IE, Mineo MT, Yasko AW, Swisher SG, Schrupp DS, Nesbitt JC, Putnam JB Jr, Roth JA. Anterior approaches to the thoracic spine in patients with cancer: indications and results. *Ann Thorac Surg*. 1997 Dec;64(6):1611-8.
27. Chintala SK, Sawaya R, Aggarwal BB, Majumder S, Giri DK, Kyritsis AP, **Gokaslan ZL**, Rao JS. Induction of matrix metalloproteinase-9 requires a polymerized actin cytoskeleton in human malignant glioma cells. *J Biol Chem*. 1998 May 29;273(22):13545-51.
28. **Gokaslan ZL**, York JE, Walsh GL, McCutcheon IE, Lang FF, Putnam JB Jr, Wildrick DM, Swisher SG, Abi-Said D, Sawaya R. Transthoracic vertebrectomy for metastatic spinal tumors. *J Neurosurg*. 1998 Oct;89(4):599-609.
29. Sawaya R, Go Y, Kyritsis AP, Uhm J, Venkaiah B, Mohanam S, **Gokaslan ZL**, Rao JS. Elevated levels of Mr 92,000 type IV collagenase during tumor growth in vivo. *Biochem Biophys Res Commun*. 1998 Oct 20;251(2):632-6.
30. **Gokaslan ZL**, Chintala SK, York JE, Boyapati V, Jasti S, Sawaya R, Fuller G, Wildrick DM, Nicolson GL, Rao JS. Expression and localization of urokinase-type plasminogen activator in human spinal column tumors. *Clin Exp Metastasis*.

1998 Nov;16(8):713-9.

31. **Gokaslan ZL**, Chintala SK, York JE, Boyapati V, Jasti S, Sawaya R, Fuller G, Wildrick DM, Nicolson GL, Rao JS. Expression and role of matrix metalloproteinases MMP-2 and MMP-9 in human spinal column tumors. *Clin Exp Metastasis*. 1998 Nov;16(8):721-8.
32. Mohanam S, Chintala SK, Mohan PM, Sawaya R, Lagos GK, **Gokaslan ZL**, Kouraklis GP, Rao JS. Increased invasion of neuroglioma cells transfected with urokinase plasminogen activator receptor cDNA. *Int J Oncol*. 1998 Dec;13(6):1285-90.
33. York JE, Kaczaraj A, Abi-Said D, Fuller GN, Skibber JM, Janjan NA, **Gokaslan ZL**. Sacral chordoma: 40-year experience at a major cancer center. *Neurosurgery*. 1999 Jan;44(1):74-9; discussion 79-80.
34. York JE, Berk RH, Fuller GN, Rao JS, Abi-Said D, Wildrick DM, **Gokaslan ZL**. Chondrosarcoma of the spine: 1954 to 1997. *J Neurosurg*. 1999 Jan;90:73-8.
35. Mohanam S, Go Y, Sawaya R, Venkaiah B, Mohan PM, Kouraklis GP, **Gokaslan ZL**, Lagos GK, Rao JS. Elevated levels of urokinase-type plasminogen activator and its receptor during tumor growth in vivo. *Int J Oncol*. 1999 Jan;14(1):169-74.
36. York JE, Walsh GL, Lang FF, Putnam JB, McCutcheon IE, Swisher SG, Komaki R, **Gokaslan ZL**. Combined chest wall resection with vertebrectomy and spinal reconstruction for the treatment of Pancoast tumors. *J Neurosurg*. 1999 Jul;91:74-80.
37. Jackson RJ, **Gokaslan ZL**. Occipitocervicothoracic fixation for spinal instability in patients with neoplastic processes. *J Neurosurg*. 1999 Jul;91:81-9.
38. Mohan PM, Chintala SK, Mohanam S, Gladson CL, Kim ES, **Gokaslan ZL**, Lakka SS, Roth JA, Fang B, Sawaya R, Kyritsis AP, Rao JS. Adenovirus-mediated delivery of antisense gene to urokinase-type plasminogen activator receptor suppresses glioma invasion and tumor growth. *Cancer Res*. 1999 Jul 15;59(14):3369-73.
39. Gandhi S, Walsh GL, Komaki R, **Gokaslan ZL**, Nesbitt JC, Putnam JB Jr, Roth JA, Merriman KW, McCutcheon IE, Munden RF, Swisher SG. A multidisciplinary surgical approach to superior sulcus tumors with vertebral invasion. *Ann Thorac Surg*. 1999 Nov;68(5):1778-84; discussion 1784-5.
40. York JE, Stringer J, Ajani JA, Wildrick DM, **Gokaslan ZL**. Gastric cancer and metastasis to the brain. *Ann Surg Oncol*. 1999 Dec;6(8):771-6.
41. Jackson RJ, **Gokaslan ZL**. Spinal-pelvic fixation in patients with lumbosacral neoplasms. *J Neurosurg*. 2000 Jan;92:61-70.
42. **Gokaslan ZL**, Aladag MA, Ellerhorst JA. Melanoma metastatic to the spine: a review of 133 cases. *Melanoma Res*. 2000 Feb;10(1):78-80.
43. Chang DW, Lee JE, **Gokaslan ZL**, Robb GL. Closure of hemicorporectomy with bilateral subtotal thigh flaps. *Plast Reconstr Surg*. 2000 Apr;105(5):1742-6.
44. Miller DJ, Lang FF, Walsh GL, Abi-Said D, Wildrick DM, **Gokaslan ZL**. Coaxial double-lumen methylmethacrylate reconstruction in the anterior cervical and upper thoracic spine after tumor resection. *J Neurosurg*. 2000 Apr;92:181-90.
45. Jackson RJ, Loh SC, **Gokaslan ZL**. Metastatic renal cell carcinoma of the spine: surgical treatment and results. *J Neurosurg*. 2001 Jan;94(1 Suppl):18-24. Erratum in: *J Neurosurg* 2001 Apr;94(2 Suppl):340.
46. Fourney DR, Abi-Said D, Lang FF, McCutcheon IE, **Gokaslan ZL**. Use of pedicle screw fixation in the management of malignant spinal disease: experience in 100 consecutive procedures. *J Neurosurg*. 2001 Jan;94(1 Suppl):25-37.
47. Michael CB, **Gokaslan ZL**, DeMonte F, McCutcheon IE, Sawaya R, Lang FF. Surgical resection of calvarial metastases overlying dural sinuses. *Neurosurgery*. 2001 Apr;48(4):745-54; discussion 754-5.
48. Fourney DR, Abi-Said D, Rhines LD, Walsh GL, Lang FF, McCutcheon IE, **Gokaslan ZL**. Simultaneous anterior-posterior approach to the thoracic and lumbar spine for the radical resection of tumors followed by reconstruction and stabilization. *J Neurosurg*. 2001 Apr;94:232-44. Erratum in: *J Neurosurg* 2001 Jul;95:160.
49. Hachem R, Afif C, **Gokaslan Z**, Raad I. Successful treatment of vancomycin-resistant *Enterococcus* meningitis with linezolid. *Eur J Clin Microbiol Infect Dis*. 2001 Jun;20(6):432-4.
50. Jackson RJ, Fuller GN, Abi-Said D, Lang FF, **Gokaslan ZL**, Shi WM, Wildrick DM, Sawaya R. Limitations of stereotactic biopsy in the initial management of gliomas. *Neuro Oncol*. 2001 Jul;3(3):193-200.
51. Lacroix M, Abi-Said D, Fourney DR, **Gokaslan ZL**, Shi W, DeMonte F, Lang FF, McCutcheon IE, Hassenbusch SJ, Holland E, Hess K, Michael C, Miller D, Sawaya R. A multivariate analysis of 416 patients with glioblastoma multiforme: prognosis, extent of resection, and survival. *J Neurosurg*. 2001 Aug;95(2):190-8.
52. Lang FF, Olansen NE, DeMonte F, **Gokaslan ZL**, Holland EC, Kalhorn C, Sawaya R. Surgical resection of intrinsic insular tumors: complication avoidance. *J Neurosurg*. 2001 Oct;95(4):638-50.
53. Liebross RH, Starkschall G, Wong PF, Horton J, **Gokaslan ZL**, Komaki R. The effect of titanium stabilization rods on spinal cord radiation dose. *Med Dosim*. 2002 Spring;27(1):21-4.
54. Marmor E, Fourney DR, Rhines LD, Skibber JM, Fuller GN, **Gokaslan ZL**. Sacrococcygeal ganglioneuroma. *J Spinal Disord Tech*. 2002 Jun;15(3):265-8.
55. Lin PP, Guzel VB, Moura MF, Wallace S, Benjamin RS, Weber KL, Morello FA Jr, **Gokaslan ZL**, Yasko AW. Long-term follow-up of patients with giant cell tumor of the sacrum treated with selective arterial embolization. *Cancer*. 2002 Sep 15;95(6):1317-25.

56. Hanbali F, Fourney DR, Marmor E, Suki D, Rhines LD, Weinberg JS, McCutcheon IE, Suk I, **Gokaslan ZL**. Spinal cord ependymoma: radical surgical resection and outcome. *Neurosurgery*. 2002 Nov;51(5):1162-72; discussion 1172-4.
57. Fourney DR, Schomer DF, Nader R, Chlan-Fourney J, Suki D, Ahrar K, Rhines LD, **Gokaslan ZL**. Percutaneous vertebroplasty and kyphoplasty for painful vertebral body fractures in cancer patients. *J Neurosurg*. 2003 Jan;98:21-30.
58. Fourney DR, **Gokaslan ZL**. Spinal instability and deformity due to neoplastic conditions. *Neurosurg Focus*. 2003 Jan 15;14(1):e8. Review.
59. Fourney DR, Prabhu SS, Cohen ZR, Rhines LD, **Gokaslan ZL**. Thoracolumbopelvic stabilization for the treatment of instability caused by recurrent myxopapillary ependymoma. *J Spinal Disord Tech*. 2003 Feb;16(1):108-11.
60. Fourney DR, York JE, Cohen ZR, Suki D, Rhines LD, **Gokaslan ZL**. Management of atlantoaxial metastases with posterior occipitocervical stabilization. *J Neurosurg*. 2003 Mar;98:165-70.
61. Fourney DR, **Gokaslan ZL**. Current management of sacral chordoma. *Neurosurg Focus*. 2003 Aug 15;15(2):E9. Review.
62. Yao KC, Boriani S, **Gokaslan ZL**, Sundaresan N. En bloc spondylectomy for spinal metastases: a review of techniques. *Neurosurg Focus*. 2003 Nov 15;15(5):E6. Review.
63. Ryken TC, Eichholz KM, Gerszten PC, Welch WC, **Gokaslan ZL**, Resnick DK. Evidence-based review of the surgical management of vertebral column metastatic disease. *Neurosurg Focus*. 2003 Nov 15;15(5):E11. Review.
64. Hentschel SJ, Rhines LD, Wong FC, **Gokaslan ZL**, McCutcheon IE. Subarachnoid-pleural fistula after resection of thoracic tumors. *J Neurosurg*. 2004 Apr;100:332-6.
65. Bagley CA, **Gokaslan ZL**. Cauda equina syndrome caused by primary and metastatic neoplasms. *Neurosurg Focus*. 2004 Jun 15;16(6):e3. Review.
66. Gallia GL, Weiss N, Campbell JN, McCarthy EF, Tufaro AP, **Gokaslan ZL**. Vertebral synovial chondromatosis. Report of two cases and review of the literature. *J Neurosurg Spine*. 2004 Sep;1(2):211-8. Review.
67. Fourney DR, **Gokaslan ZL**. Anterior approaches for thoracolumbar metastatic spine tumors. *Neurosurg Clin N Am*. 2004 Oct;15(4):443-51. Review.
68. Schmidt MH, Fourney DR, **Gokaslan ZL**. Metastatic spine disease. *Neurosurg Clin N Am*. 2004 Oct;15(4):xv-xvi.
69. Fourney DR, **Gokaslan ZL**. Use of "MAPs" for determining the optimal surgical approach to metastatic disease of the thoracolumbar spine: anterior, posterior, or combined. Invited submission from the Joint Section Meeting on Disorders of the Spine and Peripheral Nerves, March 2004. *J Neurosurg Spine*. 2005 Jan;2(1):40-9.
70. Mantha A, Legnani FG, Bagley CA, Gallia GL, Garonzik I, Pradilla G, Amundson E, Tyler BM, Brem H, **Gokaslan ZL**. A novel rat model for the study of intraosseous metastatic spine cancer. *J Neurosurg Spine*. 2005 Mar;2(3):303-7.
71. Marco RA, Gentry JB, Rhines LD, Lewis VO, Wolinsky JP, Jaffe N, **Gokaslan ZL**. Ewing's sarcoma of the mobile spine. *Spine (Phila Pa 1976)*. 2005 Apr 1;30(7):769-73.
72. Holman PJ, Suki D, McCutcheon I, Wolinsky JP, Rhines LD, **Gokaslan ZL**. Surgical management of metastatic disease of the lumbar spine: experience with 139 patients. *J Neurosurg Spine*. 2005 May;2(5):550-63.
73. Amundson E, Pradilla G, Brastianos P, Bagley C, Riley LH 3rd, Garonzik IM, McCarthy E, Wolinsky JP, **Gokaslan ZL**. A novel intravertebral tumor model in rabbits. *Neurosurgery*. 2005 Aug;57(2):341-6; discussion 341-6.
74. Guo Y, Palmer JL, Shen L, Kaur G, Willey J, Zhang T, Bruera E, Wolinsky JP, **Gokaslan ZL**. Bowel and bladder continence, wound healing, and functional outcomes in patients who underwent sacrectomy. *J Neurosurg Spine*. 2005 Aug;3(2):106-10.
75. Fourney DR, Rhines LD, Hentschel SJ, Skibber JM, Wolinsky JP, Weber KL, Suki D, Gallia GL, Garonzik I, **Gokaslan ZL**. En bloc resection of primary sacral tumors: classification of surgical approaches and outcome. *J Neurosurg Spine*. 2005 Aug;3(2):111-22.
76. Khanna AJ, Shindle MK, Wasserman BA, **Gokaslan ZL**, Gonzales RA, Buchowski JM, Riley LH 3rd. Use of magnetic resonance imaging in differentiating compartmental location of spinal tumors. *Am J Orthop (Belle Mead NJ)*. 2005 Oct;34(10):472-6. Review.
77. Gallia GL, Haque R, Garonzik I, Witham TF, Khavkin YA, Wolinsky JP, Suk I, **Gokaslan ZL**. Spinal pelvic reconstruction after total sacrectomy for en bloc resection of a giant sacral chordoma. Technical note. *J Neurosurg Spine*. 2005 Dec;3(6):501-6.
78. Witham TF, Khavkin YA, Gallia GL, Wolinsky JP, **Gokaslan ZL**. Surgery insight: current management of epidural spinal cord compression from metastatic spine disease. *Nat Clin Pract Neurol*. 2006 Feb;2(2):87-94; quiz 116. Review.
79. Sciubba DM, Mavinkurve GG, Gailloud P, Garonzik IM, Recinos PF, McGirt MJ, Woodworth GF, Witham T, Khavkin Y, **Gokaslan ZL**, Wolinsky JP. Preoperative imaging of cervical spine hemangioblastomas using three-dimensional fusion digital subtraction angiography. Report of two cases. *J Neurosurg Spine*. 2006 Jul;5(1):96-100.
80. Sciubba DM, Garonzik IM, Suk I, Gallia GL, Tufaro A, Wolinsky JP, Taghva A, **Gokaslan ZL**. Frameless stereotaxy in a transmandibular, circumglossal, retropharyngeal cervical decompression in a Klippel-Feil patient: technical note. *Eur Spine J*. 2006 Aug;15(8):1286-91. Epub 2006 Mar 28. Erratum in: *Eur Spine J*. 2008 Jan;17(1):144.
81. McPherson CM, Suki D, McCutcheon IE, **Gokaslan ZL**, Rhines LD, Mendel E. Metastatic disease from spinal chordoma: a

- 10-year experience. *J Neurosurg Spine*. 2006 Oct;5(4):277-80.
82. Sciubba DM, **Gokaslan ZL**. Diagnosis and management of metastatic spine disease. *Surg Oncol*. 2006 Nov;15(3):141-51. Epub 2006 Dec 20. Review.
 83. Kretzer RM, Sciubba DM, Bagley CA, Wolinsky JP, **Gokaslan ZL**, Garonzik IM. Translaminar screw fixation in the upper thoracic spine. *J Neurosurg Spine*. 2006 Dec;5(6):527-33.
 84. Wolinsky JP, Sciubba DM, Suk I, **Gokaslan ZL**. Endoscopic image-guided odontoidectomy for decompression of basilar invagination via a standard anterior cervical approach. Technical note. *J Neurosurg Spine*. 2007 Feb;6(2):184-91.
 85. Sciubba DM, Gallia GL, McGirt MJ, Woodworth GF, Garonzik IM, Witham T, **Gokaslan ZL**, Wolinsky JP. Thoracic kyphotic deformity reduction with a distractible titanium cage via an entirely posterior approach. *Neurosurgery*. 2007 Apr;60(4 Suppl 2):223-30; discussion 230-1.
 86. Witham TF, **Gokaslan ZL**. Lumbar disc herniation--to operate or not to operate? *Nat Clin Pract Neurol*. 2007 Jun;3(6):316-7. Epub 2007 Apr 24.
 87. Woodworth GF, Chaichana KL, McGirt MJ, Sciubba DM, Jallo GI, **Gokaslan Z**, Wolinsky JP, Witham TF. Predictors of ambulatory function after surgical resection of intramedullary spinal cord tumors. *Neurosurgery*. 2007 Jul;61(1):99-105; discussion 105-6.
 88. Gallia GL, Sciubba DM, Bydon A, Suk I, Wolinsky JP, **Gokaslan ZL**, Witham TF. Total L-5 spondylectomy and reconstruction of the lumbosacral junction. Technical note. *J Neurosurg Spine*. 2007 Jul;7(1):103-11. Review.
 89. Bagley CA, Bookland MJ, Pindrik JA, Ozmen T, **Gokaslan ZL**, Witham TF. Local delivery of oncolgel delays paresis in rat metastatic spinal tumor model. *J Neurosurg Spine*. 2007 Aug;7(2):194-8.
 90. Shehadi JA, Sciubba DM, Suk I, Suki D, Maldaun MV, McCutcheon IE, Nader R, Theriault R, Rhines LD, **Gokaslan ZL**. Surgical treatment strategies and outcome in patients with breast cancer metastatic to the spine: a review of 87 patients. *Eur Spine J*. 2007 Aug;16(8):1179-92.
 91. Bagley CA, Bookland MJ, Pindrik JA, Ozmen T, **Gokaslan ZL**, Wolinsky JP, Witham TF. Fractionated, single-port radiotherapy delays paresis in a metastatic spinal tumor model in rats. *J Neurosurg Spine*. 2007 Sep;7(3):323-7.
 92. Sciubba DM, **Gokaslan ZL**, Suk I, Suki D, Maldaun MV, McCutcheon IE, Nader R, Theriault R, Rhines LD, Shehadi JA. Positive and negative prognostic variables for patients undergoing spine surgery for metastatic breast disease. *Eur Spine J*. 2007 Oct;16(10):1659-67.
 93. Sciubba DM, McLoughlin GS, **Gokaslan ZL**, Bydon A, Bessman E, Pantle H. Are computed tomography scans adequate in assessing cervical spine pain following blunt trauma? *Emerg Med J*. 2007 Nov;24(11):803-4.
 94. Sciubba DM, Lin LM, Conway JE, Bydon A, **Gokaslan ZL**, 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. Review.
 95. Klezl Z, Bagley CA, Bookland MJ, Wolinsky JP, Rezek Z, **Gokaslan ZL**. Harms titanium mesh cage fracture. *Eur Spine J*. 2007 Dec;16 Suppl 3:306-10.
 96. Sciubba DM, Nelson C, Hsieh P, **Gokaslan ZL**, Ondra S, Bydon A. Perioperative challenges in the surgical management of ankylosing spondylitis. *Neurosurg Focus*. 2008;24(1):E10. Review.
 97. Hsieh PC, Koski TR, Sciubba DM, Moller DJ, O'Shaughnessy BA, Li KW, **Gokaslan ZL**, Ondra SL, Fessler RG, Liu JC. Maximizing the potential of minimally invasive spine surgery in complex spinal disorders. *Neurosurg Focus*. 2008;25(2):E19.
 98. Chi JH, Bydon A, Hsieh P, Witham T, Wolinsky JP, **Gokaslan ZL**. Epidemiology and demographics for primary vertebral tumors. *Neurosurg Clin N Am*. 2008 Jan;19(1):1-4. Review.
 99. Sciubba DM, Chi JH, Rhines LD, **Gokaslan ZL**. Chordoma of the spinal column. *Neurosurg Clin N Am*. 2008 Jan;19(1):5-15. Review.
 100. Chi JH, Sciubba DM, Rhines LD, **Gokaslan ZL**. Surgery for primary vertebral tumors: en bloc versus intralesional resection. *Neurosurg Clin N Am*. 2008 Jan;19(1):111-7. Review.
 101. Hsu W, Sciubba DM, Sasson AD, Khavkin Y, Wolinsky JP, Gailloud P, **Gokaslan ZL**, Murphy K. Intraoperative localization of thoracic spine level with preoperative percutaneous placement of intravertebral polymethylmethacrylate. *J Spinal Disord Tech*. 2008 Feb;21(1):72-5.
 102. Chaichana KL, Woodworth GF, Sciubba DM, McGirt MJ, Witham TJ, Bydon A, Wolinsky JP, **Gokaslan Z**. Predictors of ambulatory function after decompressive surgery for metastatic epidural spinal cord compression. *Neurosurgery*. 2008 Mar;62(3):683-92; discussion 683-92.
 103. Chi JH, **Gokaslan ZL**. Vertebroplasty and kyphoplasty for spinal metastases. *Curr Opin Support Palliat Care*. 2008 Mar;2(1):9-13. Review.
 104. McGirt MJ, Attenello FJ, Sciubba DM, **Gokaslan ZL**, Wolinsky JP. Endoscopic transcervical odontoidectomy for pediatric basilar invagination and cranial settling. Report of 4 cases. *J Neurosurg Pediatr*. 2008 Apr;1(4):337-42.

- 105.Sciubba DM, Chaichana KL, Woodworth GF, McGirt MJ, **Gokaslan ZL**, Jallo GI. Factors associated with cervical instability requiring fusion after cervical laminectomy for intradural tumor resection. *J Neurosurg Spine*. 2008 May;8(5):413-9.
- 106.McLoughlin GS, Nuchtern JG, Dauser RC, Sciubba DM, **Gokaslan ZL**, Wolinsky JP. Mediastinal lymphangioma presenting as an acute epidural hematoma. *J Neurosurg Pediatr*. 2008 Jun;1(6):474-6.
- 107.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.
- 108.O'Brien JR, **Gokaslan ZL**, Riley LH 3rd, Suk I, Wolinsky JP. Open reduction of C1-C2 sublaxation with the use of C1 lateral mass and C2 translaminar screws. *Neurosurgery*. 2008 Jul;63:ONS95-8; discussion ONS98-9.
- 109.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.
- 110.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.
- 111.Rao G, Suki D, Chakrabarti I, Feiz-Erfan I, Mody MG, McCutcheon IE, **Gokaslan Z**, Patel S, Rhines LD. Surgical management of primary and metastatic sarcoma of the mobile spine. *J Neurosurg Spine*. 2008 Aug;9(2):120-8.
- 112.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.
- 113.Sciubba DM, **Gokaslan ZL**. Spinal cord stimulation for failed back surgery syndrome--does it work and is it cost-effective? *Nat Clin Pract Neurol*. 2008 Sep;4(9):472-3. Epub 2008 Jul 22.
- 114.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.
- 115.Gebauer GP, Farjoodi P, Sciubba DM, **Gokaslan ZL**, Riley LH 3rd, Wasserman BA, Khanna AJ. Magnetic resonance imaging of spine tumors: classification, differential diagnosis, and spectrum of disease. *J Bone Joint Surg Am*. 2008 Nov;90 Suppl 4:146-62.
- 116.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.
- 117.Sciubba DM, Nguyen T, **Gokaslan ZL**. Solitary vertebral metastasis. *Orthop Clin North Am*. 2009 Jan;40(1):145-54, viii. Review.
- 118.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.
- 119.Brastianos P, **Gokaslan Z**, McCarthy EF. Aneurysmal bone cysts of the sacrum: a report of ten cases and review of the literature. *Iowa Orthop J*. 2009;29:74-8. Review.
- 120.McGirt MJ, Ambrossi GL, Datto 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. Review.
- 121.Chaichana KL, Sciubba DM, Li KW, **Gokaslan ZL**. Surgical management of thoracic spinal cord herniation: technical consideration. *J Spinal Disord Tech*. 2009 Feb;22(1):67-72. Review.
- 122.Chan P, Boriani S, Fourny DR, Biagini R, Dekutoski MB, Fehlings MG, Ryken TC, **Gokaslan ZL**, Vrionis FD, Harrop JS, Schmidt MH, Vialle LR, Gerszten PC, Rhines LD, Ondra SL, Pratt SR, Fisher CG. An assessment of the reliability of the Enneking and Weinstein-Boriani-Biagini classifications for staging of primary spinal tumors by the Spine Oncology Study Group. *Spine (Phila Pa 1976)*. 2009 Feb 15;34(4):384-91.
- 123.Chi JH, **Gokaslan Z**, McCormick P, Tibbs PA, Kryscio RJ, Patchell RA. Selecting treatment for patients with malignant epidural spinal cord compression-does age matter?: results from a randomized clinical trial. *Spine (Phila Pa 1976)*. 2009 Mar 1;34(5):431-5.
- 124.Sciubba DM, Petteys RJ, Garces-Ambrossi GL, Noggle JC, McGirt MJ, Wolinsky JP, Witham TF, **Gokaslan ZL**. Diagnosis and management of sacral tumors. *J Neurosurg Spine*. 2009 Mar;10(3):244-56. Review.
- 125.Hsieh PC, Ondra SL, Grande AW, O'Shaughnessy BA, Bierbrauer K, Crone KR, Halpin RJ, Suk I, Koski TR, **Gokaslan ZL**, Kuntz C. Posterior vertebral column subtraction osteotomy: a novel surgical approach for the treatment of multiple recurrences of tethered cord syndrome. *J Neurosurg Spine*. 2009 Apr;10(4):278-86.
- 126.Hsu W, Kosztowski TA, Zaidi HA, Dorsi M, **Gokaslan ZL**, Wolinsky JP. Multidisciplinary management of primary tumors of the vertebral column. *Curr Treat Options Oncol*. 2009 Apr;10(1-2):107-25. Epub 2009 Jun 23. Review.
- 127.Parker SL, McGirt MJ, Garcés-Ambrossi GL, Mehta VA, Sciubba DM, Witham TF, **Gokaslan ZL**, Wolinsky JP.

- Translaminar versus pedicle screw fixation of C2: comparison of surgical morbidity and accuracy of 313 consecutive screws. *Neurosurgery*. 2009 May;64(5 Suppl 2):343-8; discussion 348-9.
128. 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.
 129. Williams BJ, Fox BD, Sciubba DM, Suki D, Tu SM, Kuban D, **Gokaslan ZL**, Rhines LD, Rao G. Surgical management of prostate cancer metastatic to the spine. *J Neurosurg Spine*. 2009 May;10(5):414-22.
 130. McGirt MJ, Parker SL, Wolinsky JP, Witham TF, Bydon A, **Gokaslan ZL**. Vertebroplasty and kyphoplasty for the treatment of vertebral compression fractures: an evidenced-based review of the literature. *Spine J*. 2009 Jun;9(6):501-8. Epub 2009 Feb 28. Review.
 131. Gok B, McGirt MJ, Sciubba DM, Garces-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.
 132. Sciubba DM, Noggle JC, Vellimana AK, Alesh H, McGirt MJ, **Gokaslan ZL**, Wolinsky JP. Radiographic and clinical evaluation of free-hand placement of C-2 pedicle screws. Clinical article. *J Neurosurg Spine*. 2009 Jul;11(1):15-22.
 133. Chaichana KL, Pendleton C, Sciubba DM, Wolinsky JP, **Gokaslan ZL**. Outcome following decompressive surgery for different histological types of metastatic tumors causing epidural spinal cord compression. Clinical article. *J Neurosurg Spine*. 2009 Jul;11(1):56-63.
 134. Chaichana KL, Pendleton C, Wolinsky JP, **Gokaslan ZL**, Sciubba DM. Vertebral compression fractures in patients presenting with metastatic epidural spinal cord compression. *Neurosurgery*. 2009 Aug;65(2):267-74; discussion 274-5.
 135. Ambrossi GL, McGirt MJ, Sciubba DM, Witham TF, Wolinsky JP, **Gokaslan ZL**, Long DM. Recurrent lumbar disc herniation after single-level lumbar discectomy: incidence and health care cost analysis. *Neurosurgery*. 2009 Sep;65(3):574-8; discussion 578.
 136. Xu R, Garcés-Ambrossi GL, McGirt MJ, Witham TF, Wolinsky JP, Bydon A, **Gokaslan ZL**, Sciubba DM. Thoracic vertebrectomy and spinal reconstruction via anterior, posterior, or combined approaches: clinical outcomes in 91 consecutive patients with metastatic spinal tumors. *J Neurosurg Spine*. 2009 Sep;11(3):272-84.
 137. 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.
 138. 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.
 139. McGirt MJ, Mehta V, Garcés-Ambrossi G, Gottfried O, Solakoglu C, **Gokaslan ZL**, Samdani A, Jallo GI. Pediatric tethered cord syndrome: response of scoliosis to untethering procedures. Clinical article. *J Neurosurg Pediatr*. 2009 Sep;4(3):270-4.
 140. Hsieh PC, Xu R, Sciubba DM, McGirt MJ, Nelson C, Witham TF, Wolinsky JP, **Gokaslan ZL**. Long-term clinical outcomes following en bloc resections for sacral chordomas and chondrosarcomas: a series of twenty consecutive patients. *Spine (Phila Pa 1976)*. 2009 Sep 15;34(20):2233-9.
 141. Fisher CG, Keynan O, Ondra S, **Gokaslan Z**. Introduction to focus issue in spine oncology: the synthesis of evidence and expert opinion for best practice recommendation. *Spine (Phila Pa 1976)*. 2009 Oct 15;34(22 Suppl):S21-5. Review.
 142. Sciubba DM, Okuno SH, Dekutoski MB, **Gokaslan ZL**. Ewing and osteogenic sarcoma: evidence for multidisciplinary management. *Spine (Phila Pa 1976)*. 2009 Oct 15;34(22 Suppl):S58-68. Review.
 143. 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(5):591-9.
 144. Sciubba DM, Petteys RJ, Shakur SF, **Gokaslan ZL**, McCarthy EF, Collins MT, McGirt MJ, Hsieh PC, Nelson CS, Wolinsky JP. En bloc spondylectomy for treatment of tumor-induced osteomalacia. *J Neurosurg Spine*. 2009 Nov;11(5):600-4.
 145. Sciubba DM, Cheng JJ, Petteys RJ, Weber KL, Frassica DA, **Gokaslan ZL**. Chordoma of the sacrum and vertebral bodies. *J Am Acad Orthop Surg*. 2009 Nov;17(11):708-17. Review.
 146. 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.
 147. Hsieh PC, Li KW, Sciubba DM, Suk I, Wolinsky JP, **Gokaslan ZL**. Posterior-only approach for total en bloc spondylectomy for malignant primary spinal neoplasms: anatomic considerations and operative nuances. *Neurosurgery*. 2009 Dec;65(6 Suppl):173-81; discussion 181. Review.
 148. 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. Epub 2009 Feb 11.
 149. Hsu W, Nguyen T, Kleinberg L, Ford EC, Rigamonti D, **Gokaslan ZL**, Lim M. Stereotactic radiosurgery for spine tumors:

- review of current literature. *Stereotact Funct Neurosurg*. 2010;88(5):315-21. Epub 2010 Aug 13. Review.
150. Sciubba DM, **Gokaslan ZL**. Are patients satisfied after surgery for metastatic spine disease? *Spine J*. 2010 Jan;10(1):63-5. Epub 2009 Nov 18.
 151. Omeis I, Bekelis K, Gregory A, McGirt M, Sciubba D, Bydon A, Wolinsky JP, **Gokaslan Z**, Witham T. The use of expandable cages in patients undergoing multilevel corpectomies for metastatic tumors in the cervical spine. *Orthopedics*. 2010 Feb;33(2):87-92.
 152. Alosch H, Parker SL, McGirt MJ, **Gokaslan ZL**, Witham TF, Bydon A, Wolinsky JP, Sciubba DM. Preoperative radiographic factors and surgeon experience are associated with cortical breach of C2 pedicle screws. *J Spinal Disord Tech*. 2010 Feb;23(1):9-14.
 153. Quraishi NA, Wolinsky JP, Bydon A, Witham T, **Gokaslan ZL**. Giant destructive myxopapillary ependymomas of the sacrum. *J Neurosurg Spine*. 2010 Feb;12(2):154-9.
 154. Rao G, Chang GJ, Suk I, **Gokaslan Z**, Rhines LD. Midsacral amputation for en bloc resection of chordoma. *Neurosurgery*. 2010 Mar;66(3 Suppl Operative):41-4.
 155. Hsu W, Wolinsky JP, **Gokaslan ZL**, Sciubba DM. Transoral approaches to the cervical spine. *Neurosurgery*. 2010 Mar;66(3 Suppl):119-25. Review.
 156. Itshayek E, Yamada J, Bilsky M, Schmidt M, Shaffrey C, Gerszten P, Polly D, **Gokaslan Z**, Varga PP, Fisher CG. Timing of surgery and radiotherapy in the management of metastatic spine disease: a systematic review. *Int J Oncol*. 2010 Mar;36(3):533-44. Review.
 157. Ayhan S, Nelson C, Gok B, Petteys RJ, Wolinsky JP, Witham TF, Bydon A, **Gokaslan ZL**, Sciubba DM. Transthoracic surgical treatment for centrally located thoracic disc herniations presenting with myelopathy: a 5-year institutional experience. *J Spinal Disord Tech*. 2010 Apr;23(2):79-88.
 158. Hsu W, Kosztowski TA, Zaidi HA, **Gokaslan ZL**, Wolinsky JP. Image-guided, endoscopic, transcervical resection of cervical chordoma. *J Neurosurg Spine*. 2010 Apr;12(4):431-5.
 159. 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 one hundred ninety-five spinal synovial cysts: analysis of one hundred sixty-seven consecutive cases. *Spine (Phila Pa 1976)*. 2010 May 1;35(10):1044-53.
 160. McGirt MJ, Garcés-Ambrossi GL, Parker SL, Sciubba DM, Bydon A, Wolinsky JP, **Gokaslan ZL**, Jallo G, 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.
 161. Peeling L, Frangou E, Hentschel S, **Gokaslan ZL**, Fourny DR. Refinements to the simultaneous anterior-posterior approach to the thoracolumbar spine. *J Neurosurg Spine*. 2010 May;12(5):456-61.
 162. Anwar Z, Zan E, Gujar SK, Sciubba DM, Riley LH 3rd, **Gokaslan ZL**, Yousem DM. Adult lumbar scoliosis: underreported on lumbar MR scans. *AJNR Am J Neuroradiol*. 2010 May;31(5):832-7. Epub 2010 Jan 6.
 163. Hsu W, Zaidi HA, Suk I, **Gokaslan ZL**, Wolinsky JP. A new technique for intraoperative reduction of occipitocervical instability. *Neurosurgery*. 2010 Jun;66(6 Suppl Operative):319-23; discussion 323-4.
 164. Sciubba DM, Petteys RJ, Kang S, Than KD, **Gokaslan ZL**, Gallia GL, Wolinsky JP. Solitary spinal metastasis of Hürthle cell thyroid carcinoma. *J Clin Neurosci*. 2010 Jun;17(6):797-801.
 165. Hsieh PC, Stapleton CJ, Moldavskiy P, Koski TR, Ondra SL, **Gokaslan ZL**, Kuntz C. Posterior vertebral column subtraction osteotomy for the treatment of tethered cord syndrome: review of the literature and clinical outcomes of all cases reported to date. *Neurosurg Focus*. 2010 Jul;29(1):E6. Review.
 166. McLoughlin GS, Sciubba DM, Suk I, Bydon A, Witham T, Wolinsky JP, **Gokaslan ZL**. Resection of a retropharyngeal craniovertebral junction chordoma through a posterior cervical approach. *J Spinal Disord Tech*. 2010 Jul;23(5):359-65.
 167. 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.
 168. Sciubba DM, Petteys RJ, Dekutoski MB, Fisher CG, Fehlings MG, Ondra SL, Rhines LD, **Gokaslan ZL**. Diagnosis and management of metastatic spine disease. *J Neurosurg Spine*. 2010 Jul;13(1):94-108. Review.
 169. 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.
 170. Gallia GL, Suk I, Witham TF, Gearhart SL, Black JH 3rd, Redett RJ, Sciubba DM, Wolinsky JP, **Gokaslan ZL**. Lumbopelvic reconstruction after combined L5 spondylectomy and total sacrectomy for en bloc resection of a malignant fibrous histiocytoma. *Neurosurgery*. 2010 Aug;67(2):E498-502.
 171. Quraishi NA, **Gokaslan ZL**, Boriani S. The surgical management of metastatic epidural compression of the spinal cord. *J Bone Joint Surg Br*. 2010 Aug;92(8):1054-60. Review.
 172. 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. doi:pii: 41.
 173. 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 postoperative outcomes. *Spine J*. 2010 Sep;10(9):820-6. Epub 2010 May 20. Review.
174. Fisher CG, DiPaola CP, Ryken TC, Bilsky MH, Shaffrey CI, Berven SH, Harrop JS, Fehlings MG, Boriani S, Chou D, Schmidt MH, Polly DW, Biagini R, Burch S, Dekutoski MB, Ganju A, Gerszten PC, **Gokaslan ZL**, Groff MW, Liebsch NJ, Mendel E, Okuno SH, Patel S, Rhines LD, Rose PS, Sciubba DM, Sundaresan N, Tomita K, Varga PP, Vialle LR, Vrionis FD, Yamada Y, Fourney DR. A novel classification system for spinal instability in neoplastic disease: an evidence-based approach and expert consensus from the Spine Oncology Study Group. *Spine (Phila Pa 1976)*. 2010 Oct 15;35(22):E1221-9. Review.
 175. 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. Presented at the 2009 Joint Spine Meeting. Laboratory investigation. *J Neurosurg Spine*. 2010 Dec;13(6):688-94.
 176. Sciubba DM, Burdette EC, Cheng JJ, Pennant WA, Noggle JC, Petteys RJ, Alix C, Diederich CJ, Fichtinger G, **Gokaslan ZL**, Murphy KP. Percutaneous computed tomography fluoroscopy-guided conformal ultrasonic ablation of vertebral tumors in a rabbit tumor model. Laboratory investigation. *J Neurosurg Spine*. 2010 Dec;13(6):773-9.
 177. 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. Epub 2011 Aug 13.
 178. 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.
 179. 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; discussion 178.
 180. Mehta VA, McGirt MJ, Garcés 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.
 181. 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*. 2011 Jan;14(1):85-7.
 182. Gottfried ON, Omeis I, Mehta VA, Solakoglu C, **Gokaslan ZL**, Wolinsky JP. Sacral tumor resection and the impact on pelvic incidence. *J Neurosurg Spine*. 2011 Jan;14(1):78-84.
 183. Molina CA, **Gokaslan ZL**, Sciubba DM. A systematic review of the current role of minimally invasive spine surgery in the management of metastatic spine disease. *Int J Surg Oncol*. 2011;2011:598148.
 184. Chaichana KL, Parker SL, Mukherjee D, Cheng JS, **Gokaslan ZL**, McGirt MJ. Assessment of the extent of surgical resection as a predictor of survival in patients with primary osseous spinal neoplasms. *Clin Neurosurg*. 2011;58:117-21.
 185. Hsieh PC, Galia GL, Sciubba DM, Bydon A, Marco RA, Rhines L, Wolinsky JP, **Gokaslan ZL**. En-bloc excision of chordomas in the cervical spine: Review of 5 consecutive cases with over 4-year follow-up. *Spine (Phila Pa 1976)*. 2011 Feb 1.
 186. 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*. 2011 Feb;68(2):420-30; discussion 430.
 187. Mukherjee D, Chaichana KL, **Gokaslan ZL**, Aaronson O, Cheng JS, McGirt MJ. Survival of patients with malignant primary osseous spinal neoplasms: results from the Surveillance, Epidemiology, and End Results (SEER) database from 1973 to 2003. *J Neurosurg Spine*. 2011 Feb;14(2):143-50.
 188. McGirt MJ, **Gokaslan ZL**, Chaichana KL. Preoperative grading scale to predict survival in patients undergoing resection of malignant primary osseous spinal neoplasms. *Spine J*. 2011 Mar;11(3):190-6.
 189. Dasenbrock HH, Pendleton C, Cohen-Gadol AA, Wolinsky JP, **Gokaslan ZL**, Quinones-Hinojosa A, Bydon A. "No performance in surgery more interesting and satisfactory": Harvey Cushing and his experience with spinal cord tumors at the Johns Hopkins Hospital. *J Neurosurg Spine*. 2011 Mar;14(3):412-20.
 190. Dasenbrock HH, Pendleton C, McGirt MJ, Sciubba DM, **Gokaslan ZL**, Quiñones-Hinojosa A, Bydon A. "Fulfilling the chief of his duties as a physician": Harvey Cushing, selective dorsal rhizotomy and elective spine surgery for quality of life. *J Neurosurg Spine*. 2011 Mar;14(3):421-7.
 191. 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; discussion 333.
 192. Bydon A, Dasenbrock HH, Pendleton C, McGirt MJ, **Gokaslan ZL**, Quinones-Hinojosa A. Harvey Cushing, the spine surgeon: the surgical treatment of Pott disease. *Spine (Phila Pa 1976)*. 2011 Aug 1;36(17):1420-5.

193. Omeis IA, Dhir M, Sciubba DM, Gottfried ON, McGirt MJ, Attenello FJ, Wolinsky JP, **Gokaslan ZL**. Postoperative surgical site infections in patients undergoing spinal tumor surgery: incidence and risk factors. *Spine (Phila Pa 1976)*. 2011 Aug 1;36(17):1410-9.
194. Mehta VA, Gottfried ON, McGirt MJ, **Gokaslan ZL**, Ahn ES, Jallo GI. Safety and efficacy of concurrent pediatric spinal cord untethering and deformity correction. *J Spinal Disord Tech*. 2011 Aug;24(6):401-5.
195. 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.
196. Fourney DR, Frangou EM, Ryken TC, Dipaola CP, Shaffrey CI, Berven SH, Bilsky MH, Harrop JS, Fehlings MG, Boriani S, Chou D, Schmidt MH, Polly DW, Biagini R, Burch S, Dekutoski MB, Ganju A, Gerszten PC, **Gokaslan ZL**, Groff MW, Liebsch NJ, Mendel E, Okuno SH, Patel S, Rhines LD, Rose PS, Sciubba DM, Sundaresan N, Tomita K, Varga PP, Vialle LR, Vrionis FD, Yamada Y, Fisher CG. Spinal instability neoplastic score: an analysis of reliability and validity from the spine oncology study group. *J Clin Oncol*. 2011 Aug 1;29(22):3072-7.
197. Latimer K, Pendleton C, Cohen-Gadol AA, **Gokaslan ZL**, Quinones-Hinojosa A. Harvey Cushing's operative treatment of metastatic breast cancer to the central nervous system in the early 1900s. *Arch Surg*. 2011 Aug;146(8):975-9.
198. Bettgowda C, Shajari M, Suk I, Simmons OP, **Gokaslan ZL**, Wolinsky JP. Sublabial approach for the treatment of symptomatic basilar impression in a patient with Klippel-Feil syndrome. *Neurosurgery*. 2011 Sep;69(1 Suppl Operative):ons77-82; discussion ons82.
199. Hsu W, Kretzer RM, Dorsi MJ, **Gokaslan ZL**. Strategies to avoid wrong-site surgery during spinal procedures. *Neurosurg Focus*. 2011 Oct;31(4):E5. Review.
200. Hsieh PC, **Gokaslan ZL**. Complications of spine surgery. *Neurosurg Focus*. 2011 Oct;31(4):1 p preceding E1.
201. Hsu W, Mohyeldin A, Shah SR, ap Rhys CM, Johnson LF, Sedora-Roman NI, Kosztowski TA, Awad OA, McCarthy EF, Loeb DM, Wolinsky JP, **Gokaslan ZL**, Quiñones-Hinojosa A. Generation of chordoma cell line JHC7 and the identification of Brachyury as a novel molecular target. *J Neurosurg*. 2011 Oct;115(4):760-9. Epub 2011 Jun 24.
202. Clarke MJ, Guzzo J, Wolinsky JP, **Gokaslan Z**, Black JH 3rd. Combined endovascular and neurosurgical approach to the removal of an intraaortic pedicle screw. *J Neurosurg Spine*. 2011 Nov;15(5):550-4. Epub 2011 Aug 5.
203. Laufer I, Wolinsky JP, **Gokaslan ZL**. Desmoid Tumors. *World Neurosurg*. 2011 Nov 7.
204. **Gokaslan ZL**, Laufer I, Wolinsky JP. Evolution of Spinal Instrumentation. *World Neurosurg*. 2011 Nov 7.
205. 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.
206. Mukherjee D, Chaichana KL, Adogwa O, **Gokaslan Z**, Aaronson O, Cheng JS, McGirt MJ. Association of extent of local tumor invasion and survival in patients with malignant primary osseous spinal neoplasms from the surveillance, epidemiology, and end results (SEER) database. *World Neurosurg*. 2011 Dec;76(6):580-5.
207. 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 with human acellular dermal matrix and gluteus maximus myocutaneous flaps. *Neurosurgery*. 2011 Dec;69(6):1240-7.
208. Ropper AE, Cahill KS, Hanna JW, McCarthy EF, **Gokaslan ZL**, Chi JH. Primary vertebral tumors: a review of epidemiologic, histological, and imaging findings, Part I: benign tumors. *Neurosurgery*. 2011 Dec;69(6):1171-80. Review.
209. Molina CA, **Gokaslan ZL**, Sciubba DM. Diagnosis and management of metastatic cervical spine tumors. *Orthop Clin North Am*. 2012 Jan;43(1):75-87, viii-ix. Review.
210. Ropper AE, Cahill KS, Hanna JW, McCarthy EF, **Gokaslan ZL**, Chi JH. Primary vertebral tumors: a review of epidemiologic, histological and imaging findings, part II: locally aggressive and malignant tumors. *Neurosurgery*. 2012 Jan;70(1):211-9; discussion 219. Review.
211. Viswanathan A, Abd-El-Barr MM, Dopperberg E, Suki D, **Gokaslan Z**, Mendel E, Rao G, Rhines LD. Initial experience with the use of an expandable titanium cage as a vertebral body replacement in patients with tumors of the spinal column: a report of 95 patients. *Eur Spine J*. 2012 Jan;21(1):84-92.
212. 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):351-9; discussion 359-60.
213. 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; discussion 87-8.
214. Dasenbrock HH, Pradilla G, Witham TF, **Gokaslan ZL**, Bydon A. The impact of weekend hospital admission on the timing of intervention and outcomes after surgery for spinal metastases. *Neurosurgery*. 2012 Mar;70(3):586-93.
215. Mehta VA, Amin A, Omeis I, **Gokaslan ZL**, Gottfried ON. Implications of spinopelvic alignment for the spine surgeon.

- Neurosurgery. 2012 Mar;70(3):707-21. Review. Erratum in: Neurosurgery. 2012 May;70(5):1324.
- 216.Hsu W, Siu IM, Pradilla G, **Gokaslan ZL**, Jallo GI, Gallia GL. Animal model of intramedullary spinal cord glioma using human glioblastoma multiforme neurospheres. *J Neurosurg Spine*. 2012 Mar;16(3):315-9. Epub 2011 Dec 23.
 - 217.Dasenbrock HH, Clarke MJ, Thompson RE, **Gokaslan ZL**, Bydon A. The impact of July hospital admission on outcome after surgery for spinal metastases at academic medical centers in the United States, 2005 to 2008. *Cancer*. 2012 Mar 1;118(5):1429-38. doi: 10.1002/cncr.26347.
 - 218.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.
 - 219.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. Review.
 - 220.Fehlings MG, Smith JS, Kopjar B, Arnold PM, Yoon ST, Vaccaro AR, Brodke DS, Janssen ME, Chapman JR, Sasso RC, Woodard EJ, Banco RJ, Massicotte EM, Dekutoski MB, **Gokaslan ZL**, Bono CM, Shaffrey CI. Perioperative and delayed complications associated with the surgical treatment of cervical spondylotic myelopathy based on 302 patients from the AOSpine North America Cervical Spondylotic Myelopathy Study. *J Neurosurg Spine*. 2012 May;16(5):425-32.
 - 221.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.
 - 222.Adams H, Avendaño J, Raza SM, **Gokaslan ZL**, Jallo GI, Quiñones-Hinojosa A. Prognostic factors and survival in primary malignant astrocytomas of the spinal cord: a population-based analysis from 1973 to 2007. *Spine (Phila Pa 1976)*. 2012 May 20;37(12):E727-35.
 - 223.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.
 - 224.Quraishi NA, Wolinsky JP, **Gokaslan ZL**. Transient bilateral post-operative visual loss in spinal surgery. *Eur Spine J*. 2012 Jun;21 Suppl 4:S495-8.
 - 225.Veeravagu A, Ponnusamy K, Jiang B, Bydon M, McGirt M, Gottfried ON, Witham T, **Gokaslan ZL**, Bydon A. Renal osteodystrophy: neurosurgical considerations and challenges. *World Neurosurg*. 2012 Jul;78(1-2):191.E23-33.
 - 226.Baaj AA, **Gokaslan ZL**. Neuronavigation in spinal surgery. *World Neurosurg*. 2012 Jul;78(1-2):74-5.
 - 227.Hsu W, Mohyeldin A, Shah SR, **Gokaslan ZL**, Quinones-Hinojosa A. Role of cancer stem cells in spine tumors: review of current literature. *Neurosurgery*. 2012 Jul;71(1):117-25. Review.
 - 228.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; discussion 364.
 - 229.Bydon M, Papadimitriou K, Witham T, Wolinsky JP, Sciubba D, **Gokaslan Z**, Bydon A. Treatment of Spinal Synovial Cysts. *World Neurosurg*. 2012 Sep 25.
 - 230.Feiz-Erfan I, Fox BD, Nader R, Suki D, Chakrabarti I, Mendel E, **Gokaslan ZL**, Rao G, Rhines LD. Surgical treatment of sacral metastases: indications and results. *J Neurosurg Spine*. 2012 Oct;17(4):285-91.
 - 231.Dasenbrock HH, Wolinsky JP, Sciubba DM, Witham TF, **Gokaslan ZL**, Bydon A. The impact of insurance status on outcomes after surgery for spinal metastases. *Cancer*. 2012 Oct 1;118(19):4833-41.
 - 232.Baaj AA, **Gokaslan ZL**. Venous thromboembolism in spine surgery. *World Neurosurg*. 2012 Nov;78(5):433.
 - 233.Kaloostian PE, **Gokaslan ZL**. The Current Role of Surgery in Metastatic Spine Disease: A New Era. *Ann Surg Oncol*. 2012 Nov 13.
 - 234.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.
 - 235.Adogwa O, Carr RK, Kudyba K, Karikari I, Bagley CA, **Gokaslan ZL**, Theodore N, Cheng JS. Revision lumbar surgery in elderly patients with symptomatic pseudarthrosis, adjacent-segment disease, or same-level recurrent stenosis. Part 1. Two-year outcomes and clinical efficacy. *J Neurosurg Spine*. 2012 Dec 11.
 - 236.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.
 - 237.Mukherjee D, Chaichana KL, Parker SL, **Gokaslan ZL**, McGirt MJ. Association of surgical resection and survival in patients with malignant primary osseous spinal neoplasms from the Surveillance, Epidemiology, and End Results (SEER) database. *Eur Spine J*. 2013 Jun;22(6):1375-82.
 - 238.Kaloostian PE, **Gokaslan ZL**. Evidence-Based Review of Transforaminal Lumbar Interbody Fusion: Is Minimally Invasive Better? *World Neurosurg*. 2013 Feb 1.
 - 239.Kaloostian PE, **Gokaslan ZL**. Current Management of Spinal Tuberculosis: A Multimodal Approach. *World Neurosurg*.

2013 Feb 1.

240. Kaloostian PE, **Gokaslan ZL**. Cervical Spinal Cord Infarction After Decompressive Surgery: A Closer Look. *World Neurosurg*. 2013 Feb 1.
241. Kaloostian PE, **Gokaslan ZL**. Understanding the Cell Cycle in the Pathophysiology of Chordomas: A Molecular Look. *World Neurosurg*. 2013 Feb 1.
242. Kretzer RM, **Gokaslan ZL**. Cauda equina syndrome in the setting of longstanding instrumented spinal fusion. *World Neurosurg*. 2013 Mar-Apr;79(3-4):455-6. doi: 10.1016/j.wneu.2012.01.020. Epub 2012 Jan 17.
243. Papadimitriou K, Amin AG, Kretzer RM, Chaput C, Tortolani PJ, Wolinsky JP, **Gokaslan ZL**, Baaj AA. The rib head as a landmark in the anterolateral approach to the thoracic spine: a computed tomography-based morphometric study. *J Neurosurg Spine*. 2013 May;18(5):484-9. Epub 2013 Mar 1.
244. Bydon M, Lin J, Macki M, **Gokaslan ZL**, Bydon A. The Current Role of Steroids in Acute Spinal Cord Injury. *World Neurosurg*. 2013 Feb 20.
245. Kaloostian PE, **Gokaslan ZL**. Extent of Lumbar Discectomy in Modern-Day Neurosurgery. *World Neurosurg*. 2013 Mar 14.
246. Kaloostian PE, **Gokaslan ZL**. Primary Lumbopelvic Fixation versus Revision Pelvic Fixation for Adult Spinal Deformity: A Case-Specific Approach. *World Neurosurg*. 2013 Mar 15.
247. Zadnik PL, **Gokaslan ZL**, Burger PC, Bettegowda C. Spinal cord tumours: advances in genetics and their implications for treatment. *Nat Rev Neurol*. 2013 May;9(5):257-66. Epub 2013 Mar 26.
248. 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. Epub 2013 Apr 5.
249. Vaccaro AR, Kepler CK, Kopjar B, Chapman J, Shaffrey C, Arnold P, **Gokaslan ZL**, Brodke D, France J, Dekutoski M, Sasso R, Yoon ST, Bono C, Harrop J, Fehlings MG. Functional and quality-of-life outcomes in geriatric patients with type-II dens fracture. *J Bone Joint Surg Am*. 2013 Apr 17;95(8):729-35.
250. 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 Apr 23.
251. 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 Jun 27.
252. 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 Jul 8.
253. Kaloostian PE, Kim JE, Bydon A, Sciubba DM, Wolinsky JP, **Gokaslan ZL**, Witham TF. Intracranial hemorrhage after spine surgery. *J Neurosurg Spine*. 2013 Jul 12.
254. Moses Z, Mayer R, Strickland B, Kretzer R, Wolinsky JP, **Gokaslan ZL**, Baaj A. Neuronavigation in minimally invasive spine surgery. Manuscript Submitted to *Neurosurgical Focus*. *Neurosurg Focus*. 2013 Aug;35(2):E12. doi: 10.3171/2013.5.FOCUS13150.
255. Kaloostian PE, **Gokaslan ZL**. Spinal hydatid disease: a multidisciplinary pathology. *World Neurosurg*. 2013 Aug 3. doi:pii: S1878-8750(13)00920-0. 10.1016/j.wneu.2013.07.106.
256. Bydon M, **Gokaslan ZL**. Minimally Invasive Approaches in the Treatment of Thoracic Disc Herniation. *World Neurosurg*. 2013 Aug 3. doi:pii: S1878-8750(13)00927-3. 10.1016/j.wneu.2013.07.113.
257. Arnold PM, Fehlings MG, Kopjar B, Yoon ST, Massicotte EM, Vaccaro AR, Brodke DS, Shaffrey CI, Smith JS, Woodard EJ, Banco RJ, Chapman JR, Janssen ME, Bono CM, Sasso RC, Dekutoski MB, **Gokaslan ZL**. Mild diabetes is not a contraindication for surgical decompression in cervical spondylotic myelopathy: results of the AOSpine North America multicenter prospective study (CSM). *Spine J*. 2013 Aug 24. doi:pii: S1529-9430(13)00691-8. 10.1016/j.spinee.2013.06.016.
258. 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 Aug 27. doi:pii: S1529-9430(13)00712-2. 10.1016/j.spinee.2013.06.037.
259. 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.
260. Fehlings M, Wilson J, Kopjar B, Sangwook T, Arnold P, Massicotte E, Vaccaro A, Brodke D, Shaffrey C, Smith J, Woodard E, Banco R, Chapman J, Janssen M, Bono C, Sasso R, Dekutoski M, **Gokaslan ZL**. Efficacy and Safety of Surgical Decompression in Patients with Cervical Spondylotic Myelopathy: Results of the AOSpine North America Prospective Multi-Center Study. *J Bone Joint Surg Am*. 2013 Sep 18;95(18):1651-8. doi: 10.2106/JBJS.L.00589.
261. Fehlings MG, Barry S, Kopjar B, Yoon ST, Arnold P, Massicotte EM, Vaccaro A, Brodke DS, Shaffrey C, Smith JS, Woodard E, Banco RJ, Chapman J, Janssen M, Bono C, Sasso R, Dekutoski M, **Gokaslan ZL**. Anterior versus posterior surgical approaches to treat cervical spondylotic myelopathy: outcomes of the prospective multicenter AOSpine North America CSM study in 264 patients. *Spine (Phila Pa 1976)*. 2013 Dec 15;38(26):2247-52. doi: 10.1097/BRS.

262. Macki M, Bydon M, Papademetriou K, **Gokaslan ZL**, Bydon A. Presacral extramedullary hematopoiesis: an alternative hypothesis. *J Clin Neurosci*. 2013 Dec;20(12):1664-8. doi: 10.1016/j.jocn.2013.06.003.
263. Kaloostian PE, Yurter A, Zadnik PL, Sciubba DM, **Gokaslan ZL**. Current paradigms for metastatic spinal disease: an evidence-based review. *Ann Surg Oncol*. 2014 Jan;21(1):248-62. doi: 10.1245/s10434-013-3324-8.
264. 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*. 2014 Feb;74(2):139-46 discussion 146. doi: 10.1227/NEU.
265. 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 anterior cervical discectomy and fusion: clinical outcomes after first repeat surgery versus second repeat surgery. *Spine (Phila Pa 1976)*. 2014 Jan 15;39(2):120-6. doi:10.1097/BRS.
266. Ozturk AK, **Gokaslan ZL**. The Clinical Significance of Redundant Nerve Roots of the Cauda Equina. *World Neurosurg*. 2013 Oct 21. pii: S1878-8750(13)01378-8. doi: 10.1016/j.wneu.2013.10.047.
267. Adogwa O, Huang MI, Thompson PM, Darlington T, Cheng JS, **Gokaslan ZL**, Gottfried ON, Bagley CA, Anderson GD, Isaacs RE. No difference in postoperative complications, pain, and functional outcomes up to 2 years after incidental durotomy in lumbar spinal fusion: a prospective, multi-institutional, propensity-matched analysis of 1,741 patients. *Spine J*. 2013 Nov 2. pii: S1529-9430(13)01618-5. doi:10.1016/j.spinee.2013.10.023.
268. Tatsui CE, Suki D, Rao G, Kim SS, Salaskar A, Hatiboglu MA, **Gokaslan ZL**, McCutcheon IE, Rhines LD. Factors affecting survival in 267 consecutive patients undergoing surgery for spinal metastasis from renal cell carcinoma. *J Neurosurg Spine*. 2014 Jan;20(1):108-16. doi: 10.3171/2013.9.SPINE13158.
269. 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.
270. Otake Y, Wang AS, Webster Stayman J, Uneri A, Kleinszig G, Vogt S, Khanna AJ, **Gokaslan ZL**, Siewerdsen JH. Robust 3D-2D image registration: application to spine interventions and vertebral labeling in the presence of anatomical deformation. *Phys Med Biol*. 2013 Dec 7;58(23):8535-53. doi: 10.1088/0031-9155/58/23/8535.
271. 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*. 2014 Feb;20(2):204-8. doi: 10.3171/2013.11.SPINE13518. Epub 2013 Dec 6.
272. Bydon M, De la Garza-Ramos R, Macki M, Baker A, **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. *J Spinal Disord Tech*. 2013 Dec 15.
273. Lina IA, Puvanesarajah V, Liauw JA, Lo SF, Santiago-Dieppa DR, Hwang L, Mao A, Bydon A, Wolinsky JP, Sciubba DM, **Gokaslan ZL**, 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.
274. Fisher CG, Goldschlager T, Boriani S, Varga PP, Fehlings MG, Bilsky MH, Dekutoski MB, Luzzati A, Williams RP, Berven S, Chou D, Reynolds JJ, Quraishi NA, Rhines LD, Bettegowda C, **Gokaslan ZL**. A novel scientific model for rare and often neglected neoplastic conditions. *Evid Based Spine Care J*. 2013 Oct;4(2):160-2.
275. 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. doi: 10.1016/j.clineuro.2013.11.023.
276. Parker SL, Amin AG, Santiago-Dieppa D, Liauw JA, Bydon A, Sciubba DM, Wolinsky JP, **Gokaslan ZL**, Witham TF. Incidence and Clinical Significance of Vascular Encroachment Resulting from Free Hand Placement of Pedicle Screws in the Thoracic and Lumbar Spine: Analysis of 6,816 Consecutive Screws. *Spine (Phila Pa 1976)*. 2014 Jan 29.
277. Bydon M, Xu R, Santiago-Dieppa D, Macki M, 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. *J Neurosurg Spine*. 2014 Jan 31.
278. **Gokaslan ZL**, Desai A. Perspective: Utility of provocative discography. *World Neurosurg*. 2014 Feb 14. pii: S1878-8750(14)00143-0. doi:10.1016/j.wneu.2014.02.013.
279. Bydon M, Macki M, Kaloostian P, 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. *Neurosurgery*. 2014 Feb 20.
280. Fisher CG, Schouten R, Versteeg AL, Boriani S, Varga PP, Rhines LD, Kawahara N, Fourney D, Weir L, Reynolds JJ, Sahgal A, Fehlings MG, **Gokaslan ZL**. Reliability of the Spinal Instability Neoplastic Score (SINS) among radiation oncologists: an assessment of instability secondary to spinal metastases. *Radiat Oncol*. 2014 Mar 4;9:69. doi: 10.1186/1748-717X-9-69.

281. Bydon M, **Gokaslan ZL**. Time to Treatment of Cauda Equina Syndrome: A Time to Reevaluate Our Clinical Decision. *World Neurosurg*. 2014 Mar 5. pii: S1878-8750(14)00219-8. doi: 10.1016/j.wneu.2014.03.006.
282. Kaloostian PE, Zadnik PL, Etame AB, Vrionis FD, **Gokaslan ZL**, Sciubba DM. Surgical management of primary and metastatic spinal tumors. *Cancer Control*. 2014 Apr;21(2):133-9. PubMed PMID: 24667399.
283. Kaloostian PE, Yurter A, Etame AB, Vrionis FD, Sciubba DM, **Gokaslan ZL**. Palliative strategies for the management of primary and metastatic spinal tumors. *Cancer Control*. 2014 Apr;21(2):140-3. PubMed PMID: 24667400.
284. Zadnik PL, Molina CA, Sarabia-Estrada R, Groves ML, Wabler M, Mihalic J, McCarthy EF, **Gokaslan ZL**, Ivkov R, Sciubba D. Characterization of intratumor magnetic nanoparticle distribution and heating in a rat model of metastatic spine disease. *J Neurosurg Spine*. 2014 Jun;20(6):740-50.
285. Bydon M, Macki M, Aygun N, 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. *Spine J*. 2014 Apr 3.
286. Kaloostian PE, **Gokaslan ZL**. Surgical management of primary tumors of the cervical spine: surgical considerations and avoidance of complications. *Neurol Res*. 2014 Jun;36(6):557-65.
287. Kaloostian PE, Zadnik PL, Kim JE, Groves ML, Wolinsky JP, **Gokaslan ZL**, Witham TF, Bydon A, Sciubba DM. High incidence of morbidity following resection of metastatic pheochromocytoma in the spine. *J Neurosurg Spine*. 2014 Jun;20(6):726-33.
288. Ozturk AK, **Gokaslan ZL**, Wolinsky JP. Surgical Treatment of Sarcomas of the Spine. *Curr Treat Options Oncol*. 2014 Apr 24. [Epub ahead of print] PubMed PMID: 24760406.
289. Adogwa O, Fatemi P, Perez E, Moreno J, Gazcon GC, **Gokaslan ZL**, Cheng J, Gottfried O, Bagley CA. Negative pressure wound therapy reduces incidence of postoperative wound infection and dehiscence after long-segment thoracolumbar spinal fusion: a single institutional experience. *Spine J*. 2014 Apr 21.
290. Bydon M, Macki M, De la Garza-Ramos R, Youssef M, **Gokaslan ZL**, Meleka S, Bydon A. The cost-effectiveness of CT-guided sacroiliac joint injections: a measure of QALY gained. *Neurol Res*. 2014 Apr 28;1743132814Y0000000372.
291. Dangelmajer S, Zadnik PL, Rodriguez ST, **Gokaslan ZL**, Sciubba DM. Minimally invasive spine surgery for adult degenerative lumbar scoliosis. *Neurosurg Focus*. 2014 May;36(5):E7. doi: 10.3171/2014.3.FOCUS144.
292. Itshayek E, Cohen JE, Yamada Y, **Gokaslan Z**, Polly DW, Rhines LD, Schmidt MH, Varga PP, Mahgarefteh S, Fraifeld S, Gerszten PC, Fisher CG. Timing of stereotactic radiosurgery and surgery and wound healing in patients with spinal tumors: a systematic review and expert opinions. *Neurol Res*. 2014 Jun;36(6):510-23. doi: 10.1179/1743132814Y.0000000380. Epub 2014 May 7.
293. Bydon M, **Gokaslan ZL**. Delayed Pedicle Screw Augmentation after Spinal Instrumentation for Fractures in Patients with Multiple Myeloma. *World Neurosurg*. 2014 May 8. pii: S1878-8750(14)00469-0. doi: 10.1016/j.wneu.2014.05.010.
294. Santiago-Dieppa D, Bydon M, Xu R, De la Garza-Ramos R, Henry R, Sciubba DM, Wolinsky JP, Bydon A, **Gokaslan ZL**, Witham TF. Long-term outcomes after non-instrumented lumbar arthrodesis. *J Clin Neurosci*. 2014 May 12. pii: S0967-5868(14)00099-X. doi: 10.1016/j.jocn.2014.02.010.
295. Fehlings MG, Barry S, Kopjar B, Yoon ST, Arnold P, Massicotte EM, Vaccaro A, Brodke DS, Shaffrey C, Smith JS, Woodard E, Banco RJ, Chapman J, Janssen M, Bono C, Sasso R, Dekutoski M, **Gokaslan ZL**. Response to, Letter to the Editor Regarding our Article Anterior vs Posterior Surgical Approaches to Treat Cervical Spondylotic Myelopathy: Outcomes of the Prospective Multicenter AOSpine North America CSM Study in 264 Patients. *Spine (Phila Pa 1976)*. 2014 May 14. [Epub ahead of print] PubMed PMID: 24831505.
296. Bydon M, Xu R, De la Garza-Ramos R, Macki M, Sciubba DM, Wolinsky JP, Witham TF, **Gokaslan ZL**, Bydon A. Adjacent segment disease after anterior cervical discectomy and fusion: Incidence and clinical outcomes of patients requiring anterior versus posterior repeat cervical fusion. *Surg Neurol Int*. 2014 Apr 16;5(Suppl 3):S74-8. doi: 10.4103/2152-7806.130676.
297. Baaj AA, Papadimitriou K, Amin AG, Kretzer RM, Wolinsky JP, **Gokaslan ZL**. Surgical anatomy of the diaphragm in the anterolateral approach to the spine: a cadaveric study. *J Spinal Disord Tech*. 2014 Jun;27(4):220-3. doi: 10.1097/BSD.0b013e3182a18125. PubMed PMID: 24869984.
298. Molina CA, Ames CP, Chou D, Rhines LD, Hsieh PC, Zadnik PL, Wolinsky JP, **Gokaslan ZL**, Sciubba DM. Outcomes following attempted en bloc resection of cervical chordomas in the C-1 and C-2 region versus the subaxial region: a multiinstitutional experience. *J Neurosurg Spine*. 2014 Jun 13:1-9.
299. Bydon M, Xu R, Amin AG, Macki M, 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. *J Neurosurg Spine*. 2014 Jun 13:1-9.
300. Clarke MJ, Zadnik PL, Groves ML, Dasenbrock HH, Sciubba DM, Hsu W, Witham TF, Bydon A, **Gokaslan ZL**, Wolinsky JP. En bloc hemisacrectomy and internal hemipelvectomy via the posterior approach. *J Neurosurg Spine*. 2014 Jun 13:1-10.
301. Bydon M, De la Garza-Ramos R, Macki M, Naumann M, Sciubba D, Wolinsky JP, Bydon A, **Gokaslan ZL**, Witham T. Spinal instrumentation in patients with primary spinal infections does not lead to higher recurrent infection rates: An analysis of 118 cases. *World Neurosurg*. 2014 Jun 14. pii: S1878-8750(14)00560-9.

302. Bydon M, **Gokaslan ZL**. The three-dimensional endoscopic far-lateral approach: Many dimensions to the craniocervical junction with a far from average operation. *World Neurosurg*. 2014 Jun 17. pii: S1878-8750(14)00585-3. doi: 10.1016/j.wneu.2014.06.039.
303. Bydon M, Fredrickson V, De la Garza-Ramos R, Li Y, Lehman RA Jr, Trost GR, **Gokaslan ZL**. Sacral fractures. *Neurosurg Focus*. 2014 Jul;37(1):E12. doi: 10.3171/2014.5.FOCUS1474. PubMed PMID: 24981900.
304. Bydon M, De la Garza-Ramos R, Abt NB, **Gokaslan ZL**, Bydon A. Trends in medicare payments to physicians and implantable medical device manufacturers. *Orthopedics*. 2014 Jul;37(7):441-3. doi: 10.3928/01477447-20140626-02. PubMed PMID: 24992050.
305. Frank SM, Wasey JO, Dwyer IM, **Gokaslan ZL**, Ness PM, Kebaish KM. Radiofrequency bipolar hemostatic sealer reduces blood loss, transfusion requirements, and cost for patients undergoing multilevel spinal fusion surgery: a case control study. *J Orthop Surg Res*. 2014 Jul 5;9(1):50. [Epub ahead of print] PubMed PMID: 24997589; PubMed Central PMCID: PMC4094224.
306. Groves ML, Zadnik PL, Kaloostian P, Sui J, Goodwin CR, Wolinsky JP, Witham TF, Bydon A, **Gokaslan ZL**, Sciubba DM. Epidemiological, functional and oncologic outcome analysis of spinal sarcomas treated surgically at a single institution over ten years. *Spine J*. 2014 Jul 17. pii: S1529-9430(14)00674-3. doi: 10.1016/j.spinee.2014.07.005. [Epub ahead of print] PubMed PMID: 25041727.
307. Bydon M, De la Garza-Ramos R, Abt NB, **Gokaslan ZL**, Wolinsky JP, Sciubba DM, Bydon A, Witham TF. The Impact of Smoking on Complication and Pseudoarthrosis Rates Following Single and Two-Level Posterolateral Fusion of The Lumbar Spine. *Spine (Phila Pa 1976)*. 2014 Jul 30.
308. Boriani S, Lo SF, Puvanesarajah V, Fisher CG, Varga PP, Rhines LD, Gersmeyer NM, Luzzati A, Chou D, Reynolds JJ, Williams RP, Zadnik P, Groves M, Sciubba DM, Bettagowda C, **Gokaslan ZL**; AOSpine Knowledge Forum Tumor. Aneurysmal bone cysts of the spine: treatment options and considerations. *J Neurooncol*. 2014 Jul 25.
309. 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. *Clin Neurol Neurosurg*. 2014 Jul 20;125C:24-27. doi: 10.1016/j.clineuro.2014.07.017.
310. Ju DG, Yurter A, **Gokaslan ZL**, Sciubba DM. Diagnosis and surgical management of breast cancer metastatic to the spine. *World J Clin Oncol*. 2014 Aug 10;5(3):263-71. doi: 10.5306/wjco.v5.i3.263. Review.
311. Bydon M, Mathios D, Macki M, de la Garza-Ramos R, Sciubba DM, Witham TF, Wolinsky JP, **Gokaslan ZL**, Bydon A. Long-term patient outcomes after posterior cervical foraminotomy: an analysis of 151 cases. *J Neurosurg Spine*. 2014 Aug 15:1-5.
312. Uneri A, Wang AS, Otake Y, Kleinszig G, Vogt S, Khanna AJ, Gallia GL, **Gokaslan ZL**, Siewerdsen JH. Evaluation of low-dose limits in 3D-2D rigid registration for surgical guidance. *Phys Med Biol*. 2014 Sep 21;59(18):5329-45.
313. Bydon M, **Gokaslan ZL**. A novel protocol for reducing perioperative morbidity in complex spinal fusion surgery. *World Neurosurg*. 2014 Dec;82(6):e715-6. doi: 10.1016/j.wneu.2014.08.021. Epub 2014 Aug 18.
314. Bydon M, De la Garza-Ramos R, Bettagowda C, **Gokaslan ZL**, Sciubba DM. The use of stereotactic radiosurgery for the treatment of spinal axis tumors: a review. *Clin Neurol Neurosurg*. 2014 Oct;125:166-72. doi: 10.1016/j.clineuro.2014.08.003. Epub 2014 Aug 10. PubMed PMID: 25156410.
315. Fehlings MG, Barry S, Kopjar B, Yoon ST, Arnold P, Massicotte EM, Vaccaro A, Brodke DS, Shaffrey C, Smith JS, Woodard E, Banco RJ, Chapman J, Janssen M, Bono C, Sasso R, Dekutoski M, **Gokaslan ZL**. In response. *Spine (Phila Pa 1976)*. 2014 Jul 1;39(15):1265. PubMed PMID: 25184181.
316. Fisher CG, Goldschlager T, Boriani S, Varga PP, Rhines LD, Fehlings MG, Luzzati A, Dekutoski MB, Reynolds JJ, Chou D, Berven SH, Williams RP, Quraishi NA, Bettagowda C, **Gokaslan ZL**. An evidence-based medicine model for rare and often neglected neoplastic conditions. *J Neurosurg Spine*. 2014 Nov;21(5):704-10. doi: 10.3171/2014.7.SPINE13954. Epub 2014 Sep 5. PubMed PMID: 25192373.
317. Moran D, Zadnik PL, Taylor T, Groves ML, Yurter A, Wolinsky JP, Witham TF, Bydon A, **Gokaslan ZL**, Sciubba DM. Maintenance of bowel, bladder, and motor functions after sacrectomy. *Spine J*. 2015 Feb 1;25(2):222-9. doi: 10.1016/j.spinee.2014.08.445. Epub 2014 Sep 6. PubMed PMID: 25195977.
318. Fisher CG, Versteeg AL, Schouten R, Boriani S, Varga PP, Rhines LD, Heran MK, Kawahara N, Fourney D, Reynolds JJ, Fehlings MG, **Gokaslan ZL**. Reliability of the spinal instability neoplastic scale among radiologists: an assessment of instability secondary to spinal metastases. *AJR Am J Roentgenol*. 2014 Oct;203(4):869-74. doi: 10.2214/AJR.13.12269. PubMed PMID: 25247954.
319. Bydon M, De la Garza-Ramos R, **Gokaslan ZL**. Commentary: Spinal instrumentation for mechanical radiculopathy secondary to lumbar metastases. *Spine J*. 2014 Oct 1;24(10):2440-1.
320. Bydon M, Lin JA, de la Garza-Ramos R, 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 17 cases and meta-analysis. *J Neurosurg Spine*. 2014 Dec;21(6):919-28. doi: 10.3171/2014.8.SPINE13897. Epub 2014 Sep 26. PubMed PMID: 25259554.

321. Zhang M, Wang Y, Jones S, Sausen M, McMahon K, Sharma R, Wang Q, Belzberg AJ, Chaichana K, Gallia GL, **Gokaslan ZL**, Riggins GJ, Wolinsky JP, Wood LD, Montgomery EA, Hruban RH, Kinzler KW, Papadopoulos N, Vogelstein B, Bettegowda C. Somatic mutations of SUZ12 in malignant peripheral nerve sheath tumors. *Nat Genet.* 2014 Nov;46(11):1170-2. doi: 10.1038/ng.3116. Epub 2014 Oct 12.
322. De la Garza-Ramos R, Bydon M, Abt N, Sciubba DM, Wolinsky JP, Bydon A, **Gokaslan ZL**, Rabin B, Witham TF. The Impact of Obesity on Short- and Long-Term Outcomes following Lumbar Fusion. *Spine (Phila Pa 1976).* 2014 Oct 22. [Epub ahead of print] PubMed PMID: 25341984.
323. Santiago-Dieppa DR, Hwang LS, Bydon A, **Gokaslan ZL**, McCarthy EF, Witham TF. L4 and L5 spondylectomy for en bloc resection of giant cell tumor and review of the literature. *Evid Based Spine Care J.* 2014 Oct;5(2):151-7. doi:10.1055/s-0034-1387804. PubMed PMID: 25364329
324. Parker SL, Wolinsky JP, Tufaro AP, **Gokaslan ZL**, Witham TF. Five-level cervical corpectomy for neurofibromatosis-associated spinal deformity: case report. *Eur Spine J.* 2014 Nov 22. [Epub ahead of print] PubMed PMID: 25416169.
325. Clarke MJ, Zadnik PL, Groves ML, Sciubba DM, Witham TF, Bydon A, **Gokaslan ZL**, Wolinsky JP. Fusion following lateral mass reconstruction in the cervical spine. *J Neurosurg Spine.* 2015 Feb;22(2):139-50. doi: 10.3171/2014.10.SPINE13858. Epub 2014 Nov 28. PubMed PMID: 25431961.
326. Bydon M, Macki M, Abt NB, Witham TF, Wolinsky JP, **Gokaslan ZL**, Bydon A, Sciubba DM. The cost-effectiveness of interbody fusions versus posterolateral fusions in 137 patients with lumbar spondylolisthesis. *Spine J.* 2014 Oct 13. pii: S1529-9430(14)01565-4. doi:10.1016/j.spinee.2014.10.007. [Epub ahead of print]
327. De la Garza-Ramos R, Bydon M, Abt NB, Sciubba DM, Wolinsky JP, Bydon A, **Gokaslan ZL**, Rabin B, Witham TF. The impact of obesity on short- and long-term outcomes after lumbar fusion. *Spine (Phila Pa 1976).* 2015 Jan 1;40(1):56-61. doi: 10.1097/BRS.0000000000000655. PubMed PMID: 25526589.
328. Bydon M, De la Garza-Ramos R, Abt NB, Macki M, Sciubba DM, Wolinsky JP, Bydon A, **Gokaslan ZL**, Witham TF. Durotomy is associated with pseudoarthrosis following lumbar fusion. *J Clin Neurosci.* 2015 Mar;22(3):544-8. doi:10.1016/j.jocn.2014.08.023. Epub 2014 Dec 17. PubMed PMID: 25532509.
329. Varga PP, Szövérfi Z, Fisher CG, Boriani S, **Gokaslan ZL**, Dekutoski MB, Chou D, Quraishi NA, Reynolds JJ, Luzzati A, Williams R, Fehlings MG, Gersmeyer NM, Lazary A, Rhines LD. Surgical treatment of sacral chordoma: prognostic variables for local recurrence and overall survival. *Eur Spine J.* 2014 Dec 23. [Epub ahead of print] PubMed PMID: 25533857.
330. Mesfin A, Buchowski JM, **Gokaslan ZL**, Bird JE. Management of Metastatic Cervical Spine Tumors. *J Am Acad Orthop Surg.* 2015 Jan;23(1):38-46. Review. PubMed PMID: 25538129.
331. Bydon M, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, **Gokaslan ZL**, Witham TF, Bydon A. Smoking as an independent predictor of reoperation after lumbar laminectomy: a study of 500 cases. *J Neurosurg Spine.* 2015 Jan 2:1-6. [Epub ahead of print] PubMed PMID: 25555058.
332. Bydon M, Abt NB, De la Garza-Ramos R, Macki M, Witham TF, **Gokaslan ZL**, Bydon A, Huang J. Impact of resident participation on morbidity and mortality in neurosurgical procedures: an analysis of 16,098 patients. *J Neurosurg.* 2015 Jan 9:1-7. [Epub ahead of print] PubMed PMID: 25574567.
333. Zadnik PL, Goodwin CR, Karami KJ, Mehta AI, Amin AG, Groves ML, Wolinsky JP, Witham TF, Bydon A, **Gokaslan ZL**, Sciubba DM. Outcomes following surgical intervention for impending and gross instability caused by multiple myeloma in the spinal column. *J Neurosurg Spine.* 2015 Jan 9:1-9. [Epub ahead of print].
334. Lo SF, Otake Y, Puvanesarajah V, Wang AS, Uneri A, De Silva T, Vogt S, Kleinszig G, Elder BD, Goodwin CR, Kosztowski TA, Liauw JA, Groves M, Bydon A, Sciubba DM, Witham TF, Wolinsky JP, Aygun N, **Gokaslan ZL**, Siewerdsen JH. Automatic Localization of Target Vertebrae in Spine Surgery: Clinical Evaluation of the LevelCheck Registration Algorithm. *Spine (Phila Pa 1976).* 2015 Feb 2.
335. Otake Y, Wang AS, Uneri A, Kleinszig G, Vogt S, Aygun N, Lo SF, Wolinsky JP, **Gokaslan ZL**, Siewerdsen JH. 3D-2D registration in mobile radiographs: algorithm development and preliminary clinical evaluation. *Phys Med Biol.* 2015 Feb 12;60(5):2075-2090. [Epub ahead of print] PubMed PMID: 25674851.
336. Bydon M, **Gokaslan ZL**. Spinal Meningioma Resection. *World Neurosurg.* 2015 Feb 11. pii: S1878-8750(15)00071-6. doi: 10.1016/j.wneu.2015.01.049. [Epub ahead of print] PubMed PMID: 25681600.
337. Mehta VA, Amin A, Omeis I, **Gokaslan ZL**, Gottfried ON. Implications of spinopelvic alignment for the spine surgeon. *Neurosurgery.* 2015 Mar;76 Suppl 1:S42-56. doi: 10.1227/01.neu.0000462077.50830.1a. PubMed PMID: 25692368.
338. Petteys RJ, Spitz SM, Rhee J, Rory Goodwin C, Zadnik PL, Sarabia-Estrada R, Groves ML, Bydon A, Witham TF, Wolinsky JP, **Gokaslan ZL**, Sciubba DM. Tokuhashi score is predictive of survival in a cohort of patients undergoing surgery for renal cell carcinoma spinal metastases. *Eur Spine J.* 2015 Mar 13.
339. Sciubba DM, Macki M, Bydon M, Gersmeyer NM, Wolinsky JP, Boriani S, Bettegowda C, Chou D, Luzzati A, Reynolds JJ, Szövérfi Z, Zadnik P, Rhines LD, **Gokaslan ZL**, Fisher CG, Varga PP. Long-term outcomes in primary spinal osteochondroma: a multicenter study of 27 patients. *J Neurosurg Spine.* 2015 Jun;22(6):582-8. doi:

- 10.3171/2014.10.SPINE14501. Epub 2015 Mar 20. PubMed PMID: 25793467.
340. Kim JE, Pang J, Christensen JM, Coon D, Zadnik PL, Wolinsky JP, **Gokaslan ZL**, Bydon A, Sciubba DM, Witham T, Redett RJ, Sacks JM. Soft-tissue reconstruction after total en bloc sacrectomy. *J Neurosurg Spine*. 2015 Jun;22(6):571-81. doi: 10.3171/2014.10.SPINE14114. Epub 2015 Mar 27. PubMed PMID: 25815806.
 341. Bydon M, De la Garza-Ramos R, **Gokaslan ZL**. Editorial: Total sacrectomy for malignant sacral tumors via a posterior-only approach. *J Neurosurg Spine*. 2015 Jun;22(6):561-2. doi: 10.3171/2014.11.SPINE141068. Epub 2015 Mar 27. PubMed PMID:25815807.
 342. Bydon M, **Gokaslan ZL**. Surgeon Perspective on Complications After Surgery for Cervical Myelopathy. *World Neurosurg*. 2015 Jul;84(1):4-5. doi: 10.1016/j.wneu.2015.04.004. Epub 2015 Apr 8. PubMed PMID: 25862112.
 343. Bydon M, Macki M, Abt NB, Sciubba DM, Wolinsky JP, Witham TF, **Gokaslan ZL**, Bydon A. Clinical and surgical outcomes after lumbar laminectomy: An analysis of 500 patients. *Surg Neurol Int*. 2015 May 7;6(Suppl 4):S190-3. doi: 10.4103/2152-7806.156578. eCollection 2015. PubMed PMID: 26005583; PubMed Central PMCID: PMC4431053.
 344. Goldstein CL, Varga PP, **Gokaslan ZL**, Boriani S, Luzzati A, Rhines L, Fisher CG, Chou D, Williams RP, Dekutoski MB, Quraishi NA, Bettgowda C, Kawahara N, Fehlings MG. Spinal hemangiomas: results of surgical management for local recurrence and mortality in a multicenter study. *Spine (Phila Pa 1976)*. 2015 May 1;40(9):656-64.
 345. Bydon M, De la Garza-Ramos R, Bettgowda C, Suk I, Wolinsky JP, **Gokaslan ZL**. En Bloc Resection of a Giant Cell Tumor in the Sacrum via a Posterior-Only Approach Without Nerve Root Sacrifice: Technical Case Report. *Neurosurgery*. 2015 Jun 12. [Epub ahead of print] PubMed PMID: 26103558.
 346. Pendleton C, Rincon-Torroella J, **Gokaslan ZL**, Jallo GI, Quinones-Hinojosa A. Challenges in early operative approaches to intramedullary spinal cord tumors: Harvey Cushing's perspective. *J Neurosurg Spine*. 2015 Jun 26:1-7.
 347. Bydon M, Macki M, Qadi M, De la Garza-Ramos R, Kosztowski TA, Sciubba DM, Wolinsky JP, Witham TF, **Gokaslan ZL**, Bydon A. Regression of an atlantoaxial rheumatoid pannus following posterior instrumented fusion. *Clin Neurol Neurosurg*. 2015 Jun 18;137:28-33. doi: 10.1016/j.clineuro.2015.06.010. [Epub ahead of print] PubMed PMID: 26125675.
 348. Nater-Goulet A, Fehlings MG, Tetreault L, Kopjar B, Arnold PM, Dekutoski MB, Finkelstein J, Fisher C, France J, **Gokaslan ZL**, Rhines LD, Rose P, Schuster JM. 169 Prognostic Factors for Survival in Surgical Series of Symptomatic Metastatic Epidural Spinal Cord Compression: A Prospective North American Multicenter Study in 145 Patients. *Neurosurgery*. 2015 Aug;62 Suppl 1:221-2. doi:10.1227/01.neu.0000467133.05150.0a. PubMed PMID: 26182015.
 349. Wang Y, Springer S, Zhang M, McMahon KW, Kinde I, Dobbyn L, Ptak J, Brem H, Chaichana K, Gallia GL, **Gokaslan ZL**, Groves ML, Jallo GI, Lim M, Olivi A, Quinones-Hinojosa A, Rigamonti D, Riggins GJ, Sciubba DM, Weingart JD, Wolinsky JP, Ye X, Oba-Shinjo SM, Marie SK, Holdhoff M, Agrawal N, Diaz LA Jr, Papadopoulos N, Kinzler KW, Vogelstein B, Bettgowda C. Detection of tumor-derived DNA in cerebrospinal fluid of patients with primary tumors of the brain and spinal cord. *Proc Natl Acad Sci U S A*. 2015 Aug 4;112(31):9704-9. doi: 10.1073/pnas.1511694112. Epub 2015 Jul 20. PubMed PMID: 26195750.
 350. Bydon M, Abt NB, De la Garza-Ramos R, Olorundare IO, McGovern K, Sciubba DM, **Gokaslan ZL**, Bydon A. Impact of Age on Short-term Outcomes After Lumbar Fusion: An Analysis of 1395 Patients Stratified by Decade Cohorts. *Neurosurgery*. 2015 Jun 23. [Epub ahead of print] PubMed PMID: 26200912.
 351. Puvanesarajah V, Lo SL, Aygun N, Liauw JA, Jusué-Torres I, Lina IA, Handelsberg U, Elder BD, Bydon A, Bettgowda C, Sciubba DM, Wolinsky JP, Rigamonti D, Kleinberg LR, **Gokaslan ZL**, Witham TF, Redmond KJ, Lim M. Prognostic factors associated with pain palliation after spine stereotactic body radiation therapy. *J Neurosurg Spine*. 2015 Jul 31:1-10. [Epub ahead of print] PubMed PMID: 26230422.
 352. Drazin D, **Gokaslan ZL**, Mendel E, Johnson JP. Introduction: Intradural spinal tumors. *Neurosurg Focus*. 2015 Aug;39(2):E1. doi: 10.3171/2015.5.FOCUS15254. PubMed PMID: 26235007.
 353. Abdulaziz M, Mallory GW, Bydon M, De la Garza Ramos R, Ellis JA, Laack NN, Marsh WR, Krauss WE, Jallo G, **Gokaslan ZL**, Clarke MJ. Outcomes following myxopapillary ependymoma resection: the importance of capsule integrity. *Neurosurg Focus*. 2015 Aug;39(2):E8. doi: 10.3171/2015.5.FOCUS15164. PubMed PMID: 26235025.
 354. Bydon M, De la Garza-Ramos R, Suk I, McCarthy E, Yamada Y, Wolinsky JP, **Gokaslan ZL**. Single-Stage Multilevel Spondylectomy for En Bloc Resection of an Epithelioid Sarcoma With Intradural Extension in the Cervical Spine: Technical Case Report. *Neurosurgery*. 2015 Aug 13. [Epub ahead of print] PMID: 26308628
 355. Macki M, Bydon M, Weingart R, Sciubba D, Wolinsky JP, **Gokaslan ZL**, Bydon A, Witham T. Posterolateral fusion with interbody for lumbar spondylolisthesis is associated with less repeat surgery than posterolateral fusion alone. *Clin Neurol Neurosurg*. 2015 Aug 20;138:117-123. doi: 10.1016/j.clineuro.2015.08.014. [Epub ahead of print] PMID: 26318363
 356. Bydon M, Macki M, De la Garza-Ramos R, McGovern K, Sciubba DM, Wolinsky JP, Witham TF, **Gokaslan ZL**, Bydon A. Incidence of Adjacent Segment Disease Requiring Reoperation After Lumbar Laminectomy Without Fusion: A Study of 398 Patients. *Neurosurgery*. 2015 Sep 4. [Epub ahead of print] PMID: 26348008
 357. Liu A, Sankey EW, Godwin CR, Kosztowski TA, Elder BD, Bydon A, Witham TF, Wolinsky JP, **Gokaslan ZL**, Sciubba DM. Postoperative survival and functional outcomes for patients with metastatic gynecological cancer to the spine: case series and review of the literature. *J Neurosurg Spine*. 2015 Sep 11:1-14. [Epub ahead of print] PMID: 26360144

358. Goodwin CR, Khattab MH, Sankey EW, Elder BD, Kosztowski TA, Sarabia-Estrada R, Bydon A, Witham TF, Wolinsky JP, **Gokaslan ZL**, Sciubba DM. Factors Associated with Life Expectancy in Patients with Metastatic Spine Disease from Adenocarcinoma of the Lung. *Global Spine J*. 015 Oct;5(5):417-24. doi: 10.1055/s-0035-1554778. PMID: 26430597
359. Elder BD, Sankey EW, Theodros D, Bydon M, Rory Goodwin C, Lo SF, Kosztowski TA, Belzberg AJ, Wolinsky JP, Sciubba DM, **Gokaslan ZL**, Bydon A, Witham TF. Successful anterior fusion following posterior cervical fusion for revision of anterior cervical discectomy and fusion pseudarthrosis. *J Clin Neurosci*. 2015 Oct 16. PMID: 26482460
360. Fehlings MG, Nater A, Zamorano JJ, Tetreault LA, Varga PP, **Gokaslan ZL**, Boriani S, Fisher CG, Rhines L, Bettegowda C, Kawahara N, Chou D. Risk Factors for Recurrence of Surgically Treated Conventional Spinal Schwannomas: Analysis of 169 Patients from a Multicenter International Database. *Spine (Phila Pa 1976)*. 2015 Oct 17. PMID: 26555828
361. Uneri A, De Silva T, Stayman JW, Kleinszig G, Vogt S, Khanna AJ, **Gokaslan ZL**, Wolinsky JP, Siewerdsen JH. Known-component 3D-2D registration for quality assurance of spine surgery pedicle screw placement. *Phys Med Biol*. 2015 Oct 21;60(20):8007-24. doi: 10.1088/0031-9155/60/20/8007. PMID: 26421941
362. Goodwin CR, Sankey EW, Liu A, Elder BD, Kosztowski T, Lo SL, Fisher CG, Clarke MJ, **Gokaslan ZL**, Sciubba DM. A systematic review of clinical outcomes for patients diagnosed with skin cancer spinal metastases. *J Neurosurg Spine*. 2015 Nov 6:1-13. PMID: 26544595
363. Elder BD, Theodros D, Sankey EW, Bydon M, Goodwin CR, Wolinsky JP, Sciubba DM, **Gokaslan ZL**, Bydon A, Witham TF. Management of Cerebrospinal Fluid Leakage During Anterior Cervical Discectomy and Fusion and Its Effect on Spinal Fusion. *World Neurosurg*. 2015 Nov 30. pii: S1878-8750(15)01588-0. doi: 10.1016/j.wneu.2015.11.033. PMID: 26654925
364. **Gokaslan ZL**, Zadnik PL, Sciubba DM, Germscheid N, Goodwin CR, Wolinsky JP, Bettegowda C, Groves ML, Luzzati A, Rhines LD, Fisher CG, Varga PP, Dekutoski MB, Clarke MJ, Fehlings MG, Quraishi NA, Chou D, Reynolds JJ, Williams RP, Kawahara N, Boriani S. Mobile spine chordoma: results of 166 patients from the AOSpine Knowledge Forum Tumor database. *J Neurosurg Spine*. 2015 Dec 18:1-8. PMID: 26682601
365. Bydon M, Lin JA, De la Garza-Ramos R, Macki M, Kosztowski T, Sciubba D, Wolinsky JP, Witham TF, **Gokaslan ZL**, Bydon A. Time to Surgery and Outcomes in Cauda Equina Syndrome: An Analysis of 45 Cases. *World Neurosurg*. 2015 Dec 24. pii: S1878-8750(15)01758-1. doi: 10.1016/j.wneu.2015.12.054. PMID: 26724637
366. Liu A, Sankey EW, Goodwin CR, Kosztowski TA, Elder BD, Bydon A, Witham TF, Wolinsky JP, **Gokaslan ZL**, Sciubba DM. Postoperative survival and functional outcomes for patients with metastatic gynecological cancer to the spine: case series and review of the literature. *J Neurosurg Spine*. 2016 Jan;24(1):131-44. doi: 10.3171/2015.3.SPINE15145. PMID: 26360144
367. Fehlings MG, Nater A, Tetreault L, Kopjar B, Arnold P, Dekutoski M, Finkelstein J, Fisher C, France J, **Gokaslan Z**, Massicotte E, Rhines L, Rose P, Sahgal A, Schuster J, Vaccaro A. Survival and Clinical Outcomes in Surgically Treated Patients With Metastatic Epidural Spinal Cord Compression: Results of the Prospective Multicenter AOSpine Study. *J Clin Oncol*. 2016 Jan 20;34(3):268-76. doi: 10.1200/JCO.2015.61.9338. PMID: 26598751
368. Bydon M, Macki M, De la Garza-Ramos R, McGovern K, Sciubba DM, Wolinsky JP, Witham TF, **Gokaslan ZL**, Bydon A. Incidence of Adjacent Segment Disease Requiring Reoperation After Lumbar Laminectomy Without Fusion: A Study of 398 Patients. *Neurosurgery*. 2016 Feb;78(2):192-9. doi: 10.1227/NEU.0000000000001007. PMID: 26348008
369. **Gokaslan ZL**, Telfeian AE, Wang MY. Introduction: Endoscopic spine surgery. *Neurosurg Focus*. 2016 Feb;40(2):E1. doi: 10.3171/2015.11.FOCUS 15597. PMID: 26828878
370. Telfeian AE, Veeravagu A, Oyelese AA, **Gokaslan ZL**. A brief history of endoscopic spine surgery. *Neurosurg Focus*. 2016 Feb;40(2):E2. doi: 10.3171/2015.11.FOCUS 15429. PMID: 26828883
371. Telfeian AE, Jasper GP, Oyelese AA, **Gokaslan ZL**. Technical considerations in transforaminal endoscopic spine surgery at the thoracolumbar junction: report of 3 cases. *Neurosurg Focus*. 2016 Feb;40(2):E9. doi: 10.3171/2015.10.FOCUS15372. PMID: 26828890
372. Elder BD, Sankey EW, Theodros D, Bydon M, Rory Goodwin C, Lo SF, Kosztowski TA, Belzberg AJ, Wolinsky JP, Sciubba DM, **Gokaslan ZL**, Bydon A, Witham TF. Successful anterior fusion following posterior cervical fusion for revision of anterior cervical discectomy and fusion pseudarthrosis. *J Clin Neurosci*. 2016 Feb;24:57-62. doi: 10.1016/j.jocn.2015.07.019. PMID: 26482460
373. Macki M, Alam R, Kerezoudis P, **Gokaslan Z**, Bydon A, Bydon M. Manual muscle test at C5 palsy onset predicts the likelihood of and time to C5 palsy resolution. *J Clin Neurosci*. 2016 Feb;24:112-6. doi: 10.1016/j.jocn.2015.09.003. PMID: 26602799
374. De la Garza-Ramos R, Abt NB, Kerezoudis P, McCutcheon BA, Bydon A, Gokaslan Z, Bydon M. Deep-wound and organ-space infection after surgery for degenerative spine disease: an analysis from 2006 to 2012. *Neurol Res*. 2016 Feb;38(2):117-23. doi: 10.1080/01616412.2016.1138669. PMID: 27118607
375. Elder BD, Sankey EW, Goodwin CR, Kosztowski TA, Lo SF, Bydon A, Wolinsky JP, **Gokaslan ZL**, Witham TF, Sciubba DM. Surgical Outcomes in Patients with High Spinal Instability Neoplasm Score Secondary to Spinal Giant Cell Tumors. *Global Spine J*. 2016 Feb;6(1):21-8. doi: 10.1055/s-0035-1555657. PMID: 26835198
376. Fisher CG, Versteeg AL, Dea N, Boriani S, Varga PP, Dekutoski MB, Luzzati A, **Gokaslan ZL**, Williams RP, Reynolds JJ,

- Fehlings MG, Gersmeyer NM, Bettgowda C, Rhines LD. Surgical Management of Spinal Chondrosarcomas. *Spine (Phila Pa 1976)*. 2016 Feb 4. PMID: 26854656
377. Macki M, Syeda S, Kerezoudis P, **Gokaslan ZL**, Bydon A, Bydon M. Preoperative motor strength and time to surgery are the most important predictors of improvement in foot drop due to degenerative lumbar disease. *J Neurol Sci*. 2016 Feb 15;361:133-6. doi: 10.1016/j.jns.2015.12.035. PMID: 26810531
 378. 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 3- and 4-level anterior cervical discectomy and fusion. *J Neurosurg Spine*. 2016 Feb 19:1-7. PMID: 26895527
 379. Wagner R, Telfeian AE, Ipreburg M, Krzok G, **Gokaslan Z**, Choi DB, Pucci FG, Oyelese A. Transforaminal Endoscopic Foraminoplasty and Discectomy for the Treatment of a Thoracic Disc Herniation: Technical Note. *World Neurosurg*. 2016 Feb 27. pii: S1878-8750(16)00332-6. doi: 10.1016/j.wneu.2016.02.086. PMID: 26931541
 380. Fehlings MG, Nater A, Zamorano JJ, Tetreault LA, Varga PP, **Gokaslan ZL**, Boriani S, Fisher CG, Rhines L, Bettgowda C, Kawahara N, Chou D. Risk Factors for Recurrence of Surgically Treated Conventional Spinal Schwannomas: Analysis of 169 Patients From a Multicenter International Database. *Spine (Phila Pa 1976)*. 2016 Mar;41(5):390-8. doi: 10.1097/BRS.0000000000001232. PMID: 26555828
 381. Goodwin CR, Sankey EW, Liu A, Abu-Bonsrah N, Elder BD, Rhee J, Kosztowski T, Bydon A, Witham TF, Wolinsky JP, **Gokaslan ZL**, Sciubba DM. Primary lesion location influences postoperative survival in patients with metastatic colorectal spinal lesions. *J Clin Neurosci*. 2016 Mar;25:84-9. doi: 10.1016/j.jocn.2015.10.005. PMID: 26777084
 382. Dekutoski MB, Clarke MJ, Rose P, Luzzati A, Rhines LD, Varga PP, Fisher CG, Chou D, Fehlings MG, Reynolds JJ, Williams R, Quraishi NA, Gersmeyer NM, Sciubba DM, **Gokaslan ZL**, Boriani S; AOSpine Knowledge Forum Tumor. Osteosarcoma of the spine: prognostic variables for local recurrence and overall survival, a multicenter ambispective study. *J Neurosurg Spine*. 2016 Mar 4:1-10. PMID: 26943248
 383. Wagner R, Telfeian AE, Ipreburg M, Krzok G, **Gokaslan Z**, Choi DB, Pucci FG, Oyelese A. A Transforaminal Endoscopic Solution to a Kyphoplasty Complication: Technical Note. *World Neurosurg*. 2016 Apr 9. pii: S1878-8750(16)30086-9. doi: 10.1016/j.wneu.2016.04.013. PMID: 27072335
 384. Goodwin CR, Clarke MJ, **Gokaslan ZL**, Fisher C, Laufer I, Weber MH, Sciubba DM. En Bloc Resection of Solitary Functional Secreting Spinal Metastasis. *Global Spine J*. 2016 May;6(3):277-83. doi: 10.1055/s-0035-1558654. PMID: 27099819
 385. Elder BD, Ishida W, Lo SL, Holmes C, Goodwin CR, Kosztowski TA, Bydon A, **Gokaslan ZL**, Wolinsky JP, Sciubba DM, Witham TF. Use of S2-Alar-Iliac Screws Associated with Less Complications than Iliac Screws in Adult Lumbosacropelvic Fixation. *Spine (Phila Pa 1976)*. 2016 May 31. PMID: 27254657
 386. Sciubba DM, De la Garza Ramos R, Goodwin CR, Xu R, Bydon A, Witham TF, **Gokaslan ZL**, Wolinsky JP. Total en bloc spondylectomy for locally aggressive and primary malignant tumors of the lumbar spine. *Eur Spine J*. 2016 Jun 4. PMID: 27262560
 387. Ishida W, Elder BD, Holmes C, Goodwin CR, Lo SL, Kosztowski TA, Bydon A, **Gokaslan ZL**, Wolinsky JP, Sciubba DM, Witham TF. S2-Alar-Iliac Screws Associated with Lower Rate of Symptomatic Screw Prominence than Iliac Screws: Radiographical Analysis on the Minimal Distance from Screw Head to Skin. *World Neurosurg*. 2016 Jun 16. pii: S1878-8750(16)30427-2. doi: 10.1016/j.wneu.2016.06.042. PMID: 27319308
 388. Macki M, Syeda S, Kerezoudis P, Bydon A, Witham TF, Sciubba DM, Wolinsky JP, Bydon M, **Gokaslan Z**. rhBMP-2 protects against reoperation for pseudoarthrosis and/or instrumentation failure: A matched case-control study of 448 patients. *J Clin Neurosci*. 2016 Oct;32:99-103. doi: 10.1016/j.jocn.2016.03.025. Epub 2016 Jul 7. PMID: 27396376
 389. 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. doi: 10.5137/1019-5149.JTN.14348-15.1. PMID: 27400109
 390. Puvanesarajah V, Lina IA, Liauw JA, Lo SF, Elder BD, Wolinsky JP, Bydon A, Sciubba DM, **Gokaslan ZL**, Witham TF. Systematic Approach for Anterior Corpectomy through a Transthoracic Exposure. *Turk Neurosurg*. 2016;26(4):646-52. doi: 10.5137/1019-5149.JTN.15271-15.1.
 391. Sciubba DM, Goodwin CR, Yurter A, Ju D, **Gokaslan ZL**, Fisher C, Rhines LD, Fehlings MG, Fourny DR, Mendel E, Laufer I, Bettgowda C, Patel SR, Rampersaud YR, Sahgal A, Reynolds J, Chou D, Weber MH, Clarke MJ. A Systematic Review of Clinical Outcomes and Prognostic Factors for Patients Undergoing Surgery for Spinal Metastases Secondary to Breast Cancer. *Global Spine J*. 2016 Aug;6(5):482-96. doi: 10.1055/s-0035-1564807. Epub 2015 Oct 21. Review. PMID: 27433433
 392. Petteys RJ, Spitz SM, Goodwin CR, Abu-Bonsrah N, Bydon A, Witham TF, Wolinsky JP, **Gokaslan ZL**, Sciubba DM. Factors associated with improved survival following surgery for renal cell carcinoma spinal metastases. *Neurosurg Focus*. 2016 Aug;41(2):E13. doi: 10.3171/2016.5.FOCUS16145. PMID: 27476837
 393. Sciubba DM, De la Garza Ramos R, Goodwin CR, Abu-Bonsrah N, Bydon A, Witham TF, Bettgowda C, **Gokaslan ZL**, Wolinsky JP. Clinical, surgical, and molecular prognostic factors for survival after spinal sarcoma resection. *Neurosurg*

- Focus. 2016 Aug;41(2):E9. doi: 10.3171/2016.5.FOCUS16118. PMID: 27476851
394. Glennie RA, Rampersaud YR, Boriani S, Reynolds J, Williams R, **Gokaslan ZL**, Schmidt M, Varga P, Fisher CG. A Systematic Review with Consensus Expert Opinion of Best Reconstructive Techniques after Osseous En bloc Spinal Column Tumor Resection. *Spine (Phila Pa 1976)*. 2016 Aug 3. PMID: 27488296
 395. Goodwin CR, Abu-Bonsrah N, Bilsky M, Reynolds J, Rhines LD, Laufer I, Disch AC, Bozsodi A, Patel S, **Gokaslan ZL**, Sciubba DM, Bettegowda C. Clinical Decision Making: Integrating Advances in the Molecular Understanding of Spine Tumors. *Spine (Phila Pa 1976)*. 2016 Aug 3. PMID: 27488298
 396. Reynolds J, Khundkar R, Boriani S, Williams R, Rhines LD, Kawahara N, Wolinsky JP, **Gokaslan ZL**, Varga P. Soft Tissue and Bone Defect Management in Total Sacrectomy for Primary Sacral Tumors: A Systematic Review with Expert Recommendations. *Spine (Phila Pa 1976)*. 2016 Aug 8. PMID: 27509193
 397. Pennicooke B, Laufer I, Sahgal A, Varga PP, **Gokaslan Z**, Bilsky M, Yamada YJ. Safety and Local Control of Radiation Therapy for Chordoma of the Spine and Sacrum: Systematic Review. *Spine (Phila Pa 1976)*. 2016 Aug 8. PMID: 27509195
 398. Capoor MN, Ruzicka F, Machackova T, Jancalck R, Smrcka M, Schmitz JE, Hermanova M, Sana J, Michu E, Baird JC, Ahmed FS, Maca K, Lipina R, Alamin TF, Coscia MF, Stonemetz JL, Witham T, Ehrlich GD, **Gokaslan ZL**, Mavrommatis K, Birkenmaier C, Fischetti VA, Slaby O. Prevalence of Propionibacterium acnes in Intervertebral Discs of Patients Undergoing Lumbar Microdiscectomy: A Prospective Cross-Sectional Study. *PLoS One*. 2016 Aug 18;11(8):e0161676. doi: 10.1371/journal.pone.0161676. eCollection 2016. PMID: 27536784
 399. Mian OY, Thomas O, Lee JJ, Le Y, McNutt T, Lim M, Rigamonti D, Wolinsky JP, Sciubba DM, Gokaslan ZL, Redmond K, Kleinberg L. Timely stereotactic body radiotherapy (SBRT) for spine metastases using a rapidly deployable automated planning algorithm. *Springerplus*. 2016 Aug 11;5(1):1337. doi: 10.1186/s40064-016-2961-3. eCollection 2016. PMID: 27563532
 400. Batista N, Tee J, Sciubba D, Sahgal A, Laufer I, Weber M, **Gokaslan Z**, Rhines L, Fehlings M, Patel S, Raja Rampersaud Y, Reynolds J, Chou D, Bettegowda C, Clarke M, Fisher C. Emerging and established clinical, histopathological and molecular parametric prognostic factors for metastatic spine disease secondary to lung cancer: Helping surgeons make decisions. *J Clin Neurosci*. 2016 Sep 12. pii: S0967-5868(16)30394-0. doi: 10.1016/j.jocn.2016.05.023. PMID: 27634496
 401. Bettegowda C, Yip S, Lo SL, Fisher CG, Boriani S, Rhines LD, Wang JY, Lazary A, Gambarotti M, Wang WL, Luzzati A, Dekutoski MB, Bilsky MH, Chou D, Fehlings MG, McCarthy EF, Quraishi NA, Reynolds JJ, Sciubba DM, Williams RP, Wolinsky JP, Zadnik PL, Zhang M, Gersmisch NM, Kalampoki V, Varga PP, **Gokaslan ZL**; AOSpine Knowledge Forum Tumor. Spinal column chordoma: prognostic significance of clinical variaennicookeglenniebles and T (brachyury) gene SNP rs2305089 for local recurrence and overall survival. *Neuro Oncol*. 2016 Sep 23. pii: now156. PMID: 27663388
 402. Ailon T, Torabi R, Fisher CG, Rhines LD, Clarke MJ, Bettegowda C, Boriani S, Yamada YJ, Kawahara N, Varga PP, Shin JH, Sahgal A, **Gokaslan ZL**. Management of Locally Recurrent Chordoma of the Mobile Spine and Sacrum: A Systematic Review. *Spine (Phila Pa 1976)*. 2016 Oct 15;41 Suppl 20:S193-S198. PMID: 27753782
 403. Macki M, Syeda S, Rajjoub K, Kerezoudis P, Bydon A, Wolinsky JP, Witham T, Sciubba DM, Bydon M, **Gokaslan Z**. The effect of smoking status on successful arthrodesis after lumbar instrumentation supplemented with rhBMP-2. *World Neurosurg*. 2016 Oct 15. pii: S1878-8750(16)31018-X. doi: 10.1016/j.wneu.2016.10.030. PMID: 27756663
 404. Quraishi NA, Boriani S, Sabou S, Varga PP, Luzzati A, **Gokaslan ZL**, G Fehlings M, Fisher CG, Dekutoski MB, Rhines LD, Reynolds JJ, Gersmisch NM, Bettegowda C, Williams RP. A multicentre cohort study of spinal osteoid osteomas: results of surgical treatment and analysis of local recurrence. *Spine J*. 2016 Oct 17. pii: S1529-9430(16)31016-6. doi: 10.1016/j.spinee.2016.10.010. PMID: 27765711
 405. Sengupta S, Mao G, **Gokaslan Z**, Sampath P. Chimeric antigen receptors for treatment of glioblastoma: a practical review of challenges and ways to overcome them. *Cancer Gene Ther*. 2016 Oct 21. doi: 10.1038/cgt.2016.46. PMID: 27767090
 406. Chou D, Bilsky MH, Luzzati A, Fisher CG, **Gokaslan ZL**, Rhines LD, Dekutoski MB, Fehlings MG, Ghag R, Varga P, Boriani S, Gersmisch NM, Reynolds JJ; AOSpine Knowledge Forum Tumor. Malignant peripheral nerve sheath tumors of the spine: results of surgical management from a multicenter study. *J Neurosurg Spine*. 2016 Nov 11:1-8. PMID: 27834629
 407. Hdeib A, Goodwin CR, Sciubba D, Bydon A, Wolinsky JP, Witham T, **Gokaslan ZL**. Hemorrhagic thoracic schwannoma presenting with intradural hematoma and acute paraplegia after spinal manipulation therapy. *Int J Spine Surg*. 2016 Dec 20;10:42. doi: 10.14444/3042.
 408. Bydon M, Macki M, Kerezoudis P, Sciubba DM, Wolinsky JP, Witham TF, **Gokaslan ZL**, Bydon A. J Clin Neurosci. The incidence of adjacent segment disease after lumbar discectomy: A study of 751 patients. 2017 Jan; 35:42-46. doi: 10.1016/j.jocn.2016.09.027. PMID: 27765560
 409. Elder BD, Ishida W, Goodwin CR, Bydon A, **Gokaslan ZL**, Sciubba DM, Wolinsky JP, Witham TF. Bone graft options for spinal fusion following resection of spinal column tumors: systematic review and meta-analysis. *Neurosurg Focus*. 2017 Jan; 42(1):E16. doi: 10.3171/2016.8.FOCUS16112. PMID: 28041327
 410. Macki M, Uzosike A, Kerezoudis P, Bydon A, Bydon M, **Gokaslan ZL**. Duration of indwelling drain following instrumented posterolateral fusion of the lumbar spine does not predict surgical site infection requiring reoperation. *J Clin Neurosci*. 2017 Jun;40:44-48. doi: 10.1016/j.jocn.2016.12.008. Epub 2017 Jan 20.

411. Charest-Morin R, Fisher CG, Varga PP, **Gokaslan ZL**, Rhines LD, Reynolds JJ, Dekutoski MB, Quraishi NA, Bilsky MH, Fehlings MG, Chou D, Gersmeyer NM, Luzzati A, Boriani S, AOSpine Knowledge Forum Tumor. En bloc resection versus intralesional surgery in the treatment of giant cell tumor of the spine. *Spine (Phila Pa 1976)*. 2017 Jan 31. doi: 10.1097/BRS.0000000000002094.
412. Stacchiotti S, Gronchi A, Fossati P, Akiyama T, Alapetite C, Baumann M, Blay JY, Bolle S, Boriani S, Bruzzi P, Capanna R, Caraceni A, Casadei R, Colia V, Debus J, Delaney T, Desai A, Dileo P, Dijkstra S, Doglietto F, Flanagan A, Froelich S, Gardner PA, Gelderblom H, **Gokaslan ZL**, Haas R, Heery C, Hindi N, Hohenberger P, Hornicek F, Imai R, Jeys L, Jones RL, Kasper B, Kawai A, Krengli M, Leithner A, Logowska I, Martin Broto J, Mazzatenta D, Morosi C, Nicolai P, Norum OJ, Patel S, Penel N, Picci P, Pilotti S, Radaelli S, Ricchini F, Rutkowski P, Scheipl S, Sen C, Tamborini E, Thornton KA, Timmermann B, Torri V, Tunn PU, Uhl M, Yamada Y, Weber DC, Vanel D, Varga PP, Vleggeert-Lankamp C, Casali PG, Sommer J. Best practices for the Management of Local-regional Recurrent Chordoma. A Position Paper by the Chordoma Global Consensus Group. *Ann Oncol*. 2017 Feb 9. doi: 10.1093/annonc/mdx054.
413. Abu-Bonsrah N, Goodwin CR, De la Garza-Ramos R, Sankey EW, Liu A, Kosztowski T, Elder BD, Bettgowda C, Bydon A, Witham TF, Wolinsky JP, **Gokaslan ZL**, Sciubba DM. Readmissions After Surgical Resection of Metastatic Tumors of the Spine at a Single Institution. *World Neurosurg*. 2017 May;101:695-701.e1. doi: 10.1016/j.wneu.2017.02.065. Epub 2017 Feb 22.
414. Dea N, **Gokaslan Z**, Choi D, Fisher C. Spine Oncology - Primary Spine Tumors. *Neurosurgery*. 2017 Mar 1;80(3S):S124-S130. doi: 10.1093/neuros/nyw064.
415. Choi D, Bilsky M, Fehlings M, Fisher C, **Gokaslan Z**. Spine Oncology-Metastatic Spine Tumors. *Neurosurgery*. 2017 Mar 1;80(3S):S131-S137. doi: 10.1093/neuros/nyw084.
416. Capoor MN, Ruzicka F, Schmitz JE, James GA, Machackova T, Jancalck R, Smrcka M, Lipina R, Ahmed FS, Alamin TF, Anand N, Baird JC, Bhatia N, Demir-Deviren S, Eastlack RK, Fisher S, Garfin SR, Gogia JS, **Gokaslan ZL**, Kuo CC, Lee YP, Mavrommatis K, Michu E, Noskova H, Raz A, Sana J, Shamie AN, Stewart PS, Stonemetz JL, Wang JC, Witham TF, Coscia MF, Birkenmaier C, Fischetti VA, Slaby O. Propionibacterium acnes biofilm is present in intervertebral discs of patients undergoing microdiscectomy. *PLoS One*. 2017 Apr 3;12(4):e0174518. doi: 10.1371/journal.pone.0174518.
417. Sarabia-Estrada R, Ruiz-Valls A, Guerrero-Cazares H, Ampuero AM, Jimenez-Estrada I, De Silva S, Bernhardt LJ, Goodwin CR, Ahmed AK, Li Y, Phillips NA, **Gokaslan ZL**, Quiñones-Hinojosa A, Sciubba DM. Metastatic human breast cancer to the spine produces mechanical hyperalgesia and gait deficits in rodents. *Spine J*. 2017 Apr 13. pii: S1529-9430(17)30143-2. doi: 10.1016/j.spinee.2017.04.009.
418. Schroeder GD, Hilibrand AS, Arnold PM, Fish DE, Wang JC, Gum JL, Smith ZA, Hsu WK, **Gokaslan ZL**, Isaacs RE, Kanter AS, Mroz TE, Nassr A, Sasso RC, Fehlings MG, Buser Z, Bydon M, Cha PI, Chatterjee D, Gee EL, Lord EL, Mayer EN, McBride OJ, Nguyen EC, Roe AK, Tortolani PJ, Stroh DA, Yanez MY, Riew KD. Epidural Hematoma Following Cervical Spine Surgery. *Global Spine J*. 2017 Apr;7(1 Suppl):120S-126S. doi: 10.1177/2192568216687754. Epub 2017 Apr 1.
419. Hsu WK, Kannan A, Mai HT, Fehlings MG, Smith ZA, Traynelis VC, **Gokaslan ZL**, Hilibrand AS, Nassr A, Arnold PM, Mroz TE, Bydon M, Massicotte EM, Ray WZ, Steinmetz MP, Smith GA, Pace J, Corriveau M, Lee S, Isaacs RE, Wang JC, Lord EL, Buser Z, Riew KD. Epidemiology and Outcomes of Vertebral Artery Injury in 16 582 Cervical Spine Surgery Patients: An AOSpine North America Multicenter Study. *Global Spine J*. 2017 Apr;7(1 Suppl):21S-27S. doi: 10.1177/2192568216686753. Epub 2017 Apr 1.
420. Smith GA, Pace J, Corriveau M, Lee S, Mroz TE, Nassr A, Fehlings MG, Hart RA, Hilibrand AS, Arnold PM, Bumpass DB, **Gokaslan Z**, Bydon M, Fogelson JL, Massicotte EM, Riew KD, Steinmetz MP. Incidence and Outcomes of Acute Implant Extrusion Following Anterior Cervical Spine Surgery. *Global Spine J*. 2017 Apr;7(1 Suppl):40S-45S. doi: 10.1177/2192568216686752. Epub 2017 Apr 1.
421. **Gokaslan ZL**, Bydon M, De la Garza-Ramos R, Smith ZA, Hsu WK, Qureshi SA, Cho SK, Baird EO, Mroz TE, Fehlings M, Arnold PM, Riew KD. Recurrent Laryngeal Nerve Palsy After Cervical Spine Surgery: A Multicenter AOSpine Clinical Research Network Study. *Global Spine J*. 2017 Apr;7(1 Suppl):53S-57S. doi: 10.1177/2192568216687547. Epub 2017 Apr 1.
422. O'Neill KR, Fehlings MG, Mroz TE, Smith ZA, Hsu WK, Kanter AS, Steinmetz MP, Arnold PM, Mummaneni PV, Chou D, Nassr A, Qureshi SA, Cho SK, Baird EO, Smith JS, Shaffrey C, Tannoury CA, Tannoury T, **Gokaslan ZL**, Gum JL, Hart RA, Isaacs RE, Sasso RC, Bumpass DB, Bydon M, Corriveau M, De Giacomo AF, Derakhshan A, Jobse BC, Lubelski D, Lee S, Massicotte EM, Pace JR, Smith GA, Than KD, Riew KD. A Multicenter Study of the Presentation, Treatment, and Outcomes of Cervical Dural Tears. *Global Spine J*. 2017 Apr;7(1 Suppl):58S-63S. doi: 10.1177/2192568216688186. Epub 2017 Apr 1.
423. Nagoshi N, Fehlings MG, Nakashima H, Tetreault L, Gum JL, Smith ZA, Hsu WK, Tannoury CA, Tannoury T, Traynelis VC, Arnold PM, Mroz TE, **Gokaslan ZL**, Bydon M, De Giacomo AF, Jobse BC, Massicotte EM, Riew KD. Prevalence and Outcomes in Patients Undergoing Reintubation After Anterior Cervical Spine Surgery: Results From the AOSpine North America Multicenter Study on 8887 Patients. *Global Spine J*. 2017 Apr;7(1 Suppl):96S-102S. doi:

- 10.1177/2192568216687753. Epub 2017 Apr 1.
424. Shankar GM, Clarke MJ, Ailon T, Rhines LD, Patel SR, Sahgal A, Laufer I, Chou D, Bilsky MH, Sciubba DM, Fehlings MG, Fisher CG, **Gokaslan ZL**, Shin JH. The role of revision surgery and adjuvant therapy following subtotal resection of osteosarcoma of the spine: a systematic review with meta-analysis. *J Neurosurg Spine*. 2017 Apr 28;1-8. doi: 10.3171/2016.12.SPINE16995. [Epub ahead of print]
 425. Sarabia-Estrada R, Ruiz-Valls A, Shah SR, Ahmed AK, Ordonez AA, Rodriguez FJ, Guerrero-Cazares H, Jimenez-Estrada I, Velarde E, Tyler B, Li Y, Phillips NA, Goodwin CR, Petteys RJ, Jain SK, Gallia GL, **Gokaslan ZL**, Quinones-Hinojosa A, Sciubba DM. Effects of primary and recurrent sacral chordoma on the motor and nociceptive function of hindlimbs in rats: an orthotopic spine model. *J Neurosurg Spine*. 2017 Jun 9;1-12. doi: 10.3171/2016.12.SPINE16917.
 426. Versteeg AL, Dea N, Boriani S, Varga PP, Luzzati A, Fehlings MG, Bilsky MH, Rhines LD, Reynolds JJ, Dekutoski MB, **Gokaslan ZL**, Gersmeyer NM, Fisher CG. Surgical management of spinal osteoblastomas. *J Neurosurg Spine*. 2017 Jul 7;1-7. doi: 10.3171/2017.1.SPINE16788.
 427. Pedreira R, Abu-Bonsrah N, Karim Ahmed A, De la Garza-Ramos R, Rory Goodwin C, **Gokaslan ZL**, Sacks J, Sciubba DM. Hardware failure in patients with metastatic cancer to the spine. *J Clin Neurosci*. 2017 Jul 19. pii: S0967-5868(17)30285-0. doi: 10.1016/j.jocn.2017.05.038.
 428. Macki M, De la Garza-Ramos R, Murgatroyd AA, Mullinix KP, Sun X, Cunningham BW, McCutcheon BA, Bydon M, **Gokaslan ZL**. Comprehensive biomechanical analysis of three reconstruction techniques following total sacrectomy: an in vitro human cadaveric model. *J Neurosurg Spine*. 2017 Aug 4;1-8. doi: 10.3171/2017.2.SPINE161128.
 429. Clarke MJ, Molina CA, Fournier DR, Fisher CG, **Gokaslan ZL**, Schmidt MH, Rhines LD, Fehlings MG, Laufer I, Patel SR, Rampersaud YR, Reynolds J, Chou D, Bettgowda C, Mendel E, Weber MH, Sciubba DM. Systematic Review of the Outcomes of Surgical Treatment of Prostate Metastases to the Spine. *Global Spine J*. 2017 Aug;7(5):460-468. doi: 10.1177/2192568217710911
 430. Charest-Morin R, Dirks MS, Patel S, Boriani S, Luzzati A, Fehlings MG, Fisher CG, Dekutoski MB, Williams R, Quraishi NA, **Gokaslan ZL**, Bettgowda C, Gersmeyer NM, Varga PP, Rhines LD; AOSpine Knowledge Forum Tumor. Ewing's Sarcoma of the Spine: Prognostic Variables for Survival and Local Control in Surgically Treated Patients. *Spine (Phila Pa 1976)*. 2017 Aug 23. doi: 10.1097/BRS.0000000000002386.
 431. Fehlings MG, Kopjar B, Ibrahim A, Tetreault LA, Arnold PM, Defino H, Kale SS, Yoon ST, Barbagallo GM, Bartels RHM, Zhou Q, Vaccaro AR, Zileli M, Tan G, Yukawa Y, Brodke DS, Shaffrey CI, Santos de Moraes O, Woodard EJ, Scerrati M, Tanaka M, Toyone T, Sasso RC, Janssen ME, **Gokaslan ZL**, Alvarado M, Bolger C, Bono CM, Dekutoski MB. Geographic variations in clinical presentation and outcomes of decompressive surgery in patients with symptomatic degenerative cervical myelopathy: analysis of a prospective, international multicenter cohort study of 757 patients. *Spine J*. 2017 Sep 6. pii: S1529-9430(17)30982-8. doi: 10.1016/j.spinee.2017.08.265.
 432. Ishida W, Elder BD, Holmes C, Lo SL, Goodwin CR, Kosztowski TA, Bydon A, **Gokaslan ZL**, Wolinsky JP, Sciubba DM, Witham TF. Comparison Between S2-Alar-Iliac Screw Fixation and Iliac Screw Fixation in Adult Deformity Surgery: Reoperation Rates and Spinopelvic Parameters. *Global Spine J*. 2017 Oct;7(7):672-680. doi: 10.1177/2192568217700111.
 433. Macki M, De la Garza-Ramos R, Murgatroyd AA, Mullinix KP, Sun X, Cunningham BW, McCutcheon BA, Bydon M, **Gokaslan ZL**. Comprehensive biomechanical analysis of three reconstruction techniques following total sacrectomy: an in vitro human cadaveric model. *J Neurosurg Spine*. 2017 Nov;27(5):570-577. doi: 10.3171/2017.2.SPINE161128. Epub 2017 Aug 4.
 434. Pedreira R, Abu-Bonsrah N, Karim Ahmed A, De la Garza-Ramos R, Rory Goodwin C, **Gokaslan ZL**, Sacks J, Sciubba DM. Hardware failure in patients with metastatic cancer to the spine. *J Clin Neurosci*. 2017 Nov;45:166-171. doi: 10.1016/j.jocn.2017.05.038. Epub 2017 Jul 19.
 435. Versteeg AL, Sahgal A, Rhines LD, Sciubba DM, Schuster JM, Weber MH, Varga PP, Boriani S, Bettgowda C, Fehlings MG, Clarke MJ, Arnold PM, **Gokaslan ZL**, Fisher CG; AOSpine Knowledge Forum Tumor. Psychometric evaluation and adaptation of the Spine Oncology Study Group Outcomes Questionnaire to evaluate health-related quality of life in patients with spinal metastases. *Cancer*. 2018 Feb 6. doi: 10.1002/cncr.31240.
 436. Kosztowski TA, Choi D, Fridley J, Galgano M, **Gokaslan Z**, Oyelese A, Telfeian AE. Lumbar disc reherniation after transforaminal lumbar endoscopic discectomy. *nn Transl Med*. 2018 Mar;6(6):106. doi: 10.21037/atm.2018.02.26.
 437. Mehta N, Zavitsanos PJ, Moldovan K, Oyelese A, Fridley JS, **Gokaslan Z**, Kinsella TJ, Hepel JT. Local failure and vertebral body fracture risk using multifraction stereotactic body radiation therapy for spine metastases. *Adv Radiat Oncol*. 2018 Apr 10;3(3):245-251.
 438. Galgano M, Fridley J, Oyelese A, Telfeian A, Kosztowski T, Choi D, **Gokaslan ZL**. Surgical management of spinal metastases. *Expert Rev Anticancer Ther*. 2018 May;18(5):463-472. doi: 10.1080/14737140.2018.1453359. Epub 2018 Apr 2.
 439. Carl HM, Ahmed AK, Abu-Bonsrah N, De la Garza Ramos R, Sankey EW, Pennington Z, Bydon A, Witham TF, Wolinsky JP, **Gokaslan ZL**, Sacks JM, Goodwin CR, Sciubba DM. Risk factors for wound-related reoperations in patients with metastatic spine tumor. *J Neurosurg Spine*. 2018 Jun;28(6):663-668. doi: 10.3171/2017.10.SPINE1765. Epub 2018 Mar 16.
 440. Telfeian AE, Oyelese A, Fridley J, **Gokaslan ZL**. Transforaminal Endoscopic Decompression in the Setting of Lateral

- Lumbar Spondylolisthesis: Technical Note. *World Neurosurg.* 2018 Jun 22. pii: S1878-8750(18)31322-6. doi: 10.1016/j.wneu.2018.06.106.
441. Oyelese A, Telfeian AE, **Gokaslan ZL**, Kosztowski TA, Choi D, Fridley J, Galgano M. Intraoperative Computed Tomography Navigational Assistance for Transforaminal Endoscopic Decompression of Heterotopic Foraminal Bone Formation After Oblique Lumbar Interbody Fusion. *World Neurosurg.* 2018 Jul;115:29-34. doi:10.1016/j.wneu.2018.03.188. Epub 2018 Apr 5.
 442. Oyelese AA, Fridley J, Choi DB, Telfeian A, **Gokaslan ZL**. Minimally invasive direct lateral, retroperitoneal transforaminal approach for large L1-2 disc herniations with intraoperative CT navigational assistance: technical note and report of 3 cases. *J Neurosurg Spine.* 2018 Jul;29(1):46-53. doi: 10.3171/2017.11.SPINE17509. Epub 2018 Apr 20.
 443. Nater A, Tetreault LA, Kopjar B, Arnold PM, Dekutoski MB, Finkelstein JA, Fisher CG, France JC, **Gokaslan ZL**, Rhines LD, Rose PS, Sahgal A, Schuster JM, Vaccaro AR, Fehlings MG. Predictive factors of survival in a surgical series of metastatic epidural spinal cord compression and complete external validation of 8 multivariate models of survival in a prospective North American multicenter study. *Cancer.* 2018 Jul 5. doi: 10.1002/cncr.31585.
 444. Telfeian AE, Oyelese A, Fridley J, **Gokaslan ZL**. Transforaminal Endoscopic Decompression for Foot Drop 12 Years After Lumbar Total Disk Replacement. *World Neurosurg.* 2018 Aug;116:136-139. doi: 10.1016/j.wneu.2018.05.089. Epub 2018 May 19.
 445. Fridley J, **Gokaslan Z**. Population description and clinical response assessment for spinal metastases: the SPINO group report. *Neuro Oncol.* 2018 Aug 2;20(9):1149.
 446. Dea N, Fisher CG, Reynolds JJ, Schwab JH, Rhines LD, **Gokaslan ZL**, Bettgowda C, Sahgal A, Lazáry Á, Luzzati A, Boriani S, Gasbarrini A, Laufer I, Charest-Morin R, Wei F, Teixeira W, Germscheid NM, Hornicek FJ, DeLaney TF, Shin JH; AOSpine Knowledge Forum Tumor. Current treatment strategy for newly diagnosed chordoma of the mobile spine and sacrum: results of an international survey. *J Neurosurg Spine.* 2018 Oct 19;30(1):119-125. doi: 10.3171/2018.6.SPINE18362.
 447. Yu JYH, Fridley J, **Gokaslan Z**, Telfeian A, Oyelese AA. Minimally Invasive Thoracolumbar Corpectomy and Stabilization for Unstable Burst Fractures Using Intraoperative Computed Tomography and Computer-Assisted Spinal Navigation. *World Neurosurg.* 2018 Nov 14. pii: S1878-8750(18)32574-9.
 448. Soliman H, Fridley J, Telfeian A, Choi DB, Galgano M, Kosztowski T, **Gokaslan ZL**, Oyelese AA. Minimally Invasive, Far Lateral Lumbar Microdiscectomy with Intraoperative Computed Tomography Navigational Assistance and Electrophysiological Monitoring. *World Neurosurg.* 2018 Nov 14. pii: S1878-8750(18)32567-1.
 449. Ishida W, Ramhmdani S, Xia Y, Kosztowski TA, Xu R, Choi J, De la Garza Ramos R, Elder BD, Theodore N, **Gokaslan ZL**, Sciubba DM, Witham TF, Bydon A, Wolinsky JP, Lo SL. Use of Recombinant Human Bone Morphogenetic Protein-2 at the C1-C2 Lateral Articulation without Posterior Structural Bone Graft in Posterior Atlantoaxial Fusion in Adult Patients. *World Neurosurg.* 2018 Nov 15. pii: S1878-8750(18)32584-1.
 450. Barzilai O, Versteeg AL, Sahgal A, Rhines LD, Bilsky MH, Sciubba DM, Schuster JM, Weber MH, Pal Varga P, Boriani S, Bettgowda C, Fehlings MG, Yamada Y, Clarke MJ, Arnold PM, **Gokaslan ZL**, Fisher CG, Laufer I, The AO Spine Knowledge Forum Tumor. Survival, local control, and health-related quality of life in patients with oligometastatic and polymetastatic spinal tumors: A multicenter, international study. *Cancer.* 2018 Nov 29. doi: 10.1002/cncr.31870
 451. Ishida W, Ramhmdani S, Casaos J, Perdomo-Pantoja A, Elder BD, Theodore N, **Gokaslan ZL**, Wolinsky JP, Sciubba DM, Bydon A, Witham TF, Lo SL. Safety Profile of Lumbosacropelvic Fixation in Patients Aged 60 Years or Older: Comparison Between S2-Alar-Iliac Screws and Conventional Iliac Screws. *Clin Spine Surg.* 2019 Feb 15.
 452. Ishida W, Casaos J, Chandra A, D'Sa A, Ramhmdani S, Perdomo-Pantoja A, Theodore N, Jallo G, **Gokaslan ZL**, Wolinsky JP, Sciubba DM, Bydon A, Witham TF, Lo SL. Diagnostic and therapeutic values of intraoperative electrophysiological neuromonitoring during resection of intradural extramedullary spinal tumors: a single-center retrospective cohort and meta-analysis. *J Neurosurg Spine.* 2019 Mar 1:1-11. doi: 10.3171/2018.11.SPINE181095.
 453. Fridley J, **Gokaslan ZL**. The evolution of surgical management for vertebral column tumors. *J Neurosurg Spine.* 2019 Apr 1;30(4):417-423. doi: 10.3171/2018.12.SPINE18708.
 454. Bettgowda C, Yip S, Jiang B, Wang WL, Clarke MJ, Lazary A, Gambarotti M, Zhang M, Sciubba DM, Wolinsky JP, Goodwin CR, McCarthy E, Germscheid NM, Sahgal A, **Gokaslan ZL**, Boriani S, Varga PP, Fisher CG, Rhines LD. Prognostic significance of hTERT (human telomerase reverse transcriptase) promoter region mutations C228T and C250T for overall survival in spinal chordomas. *Neuro Oncol.* 2019 Apr 12. pii: noz066.
 455. Charest-Morin R, Fisher CG, Versteeg AL, Sahgal A, Varga PP, Sciubba DM, Schuster JM, Weber MH, Clarke MJ, Rhines LD, Boriani S, Bettgowda C, Fehlings MG, Arnold PM, **Gokaslan ZL**, Dea N. Clinical presentation, management and outcomes of sacral metastases: a multicenter, retrospective cohort study. *Ann Transl Med.* 2019 May;7(10):214. doi: 10.21037/atm.2019.04.88.
 456. Pennington Z, Reinshagen C, Ahmed AK, Barber S, Goodwin ML, **Gokaslan Z**, Sciubba DM. Management of presacral schwannomas-a 10-year multi-institutional series. *Ann Transl Med.* 2019 May;7(10):228. doi: 10.21037/atm.2019.01.66.
 457. Moldovan K, Telfeian AE, Fridley JS, **Gokaslan ZL**, Aghion D, Oyelese AA. Minimally invasive approach to non-missile penetrating spinal injury with resultant retained foreign body: A case report and review of the literature. *Clin Neurol*

- Neurosurg. 2019 Jul 1;184:105405. doi: 10.1016/j.clineuro.2019.105405.
458. Sankey EW, Park C, Howell EP, Pennington Z, Abd-El-Barr M, Karikari IO, Shaffrey CI, **Gokaslan ZL**, Sciubba D, Goodwin CR. Importance of Spinal Alignment in Primary and Metastatic Spine Tumors. *World Neurosurg.* 2019 Aug 30;132:118-128.
 459. Redmond KJ, Sciubba D, Khan M, Gui C, Lo SL, **Gokaslan ZL**, Leaf B, Kleinberg L, Grimm J, Ye X, Lim M. A Phase II Study of Post-Operative Stereotactic Body Radiation Therapy (SBRT) for Solid Tumor Spine Metastases. *Int J Radiat Oncol Biol Phys.* 2019 Oct 16.
 460. Barber SM, Konakondla S, Nakhla J, Fridley JS, Xia J, Oyelese AA, Telfeian AE, **Gokaslan ZL**. Oncologic benefits of dural resection in spinal meningiomas: a meta-analysis of Simpson grades and recurrence rates. *J Neurosurg Spine.* 2019 Nov 8:1-11.
 461. Telfeian AE, Shen J, Ali R, Oyelese A, Fridley J, **Gokaslan ZL**. Incidence and Implications of Incidental Durotomy in Transforaminal Endoscopic Spine Surgery: Case Series. *World Neurosurg.* 2019 Nov 15.
 462. Versteeg AL, Sahgal A, Kawahara N, Rhines LD, Sciubba DM, Weber MH, Lazary A, Fehlings MG, Schuster JM, Clarke MJ, Arnold PM, Boriani S, Bettgowda C, **Gokaslan ZL**, Fisher CG; AOSpine Knowledge Forum Tumor. Patient satisfaction with treatment outcomes after surgery and/or radiotherapy for spinal metastases. *Cancer.* 2019 Dec 1;125(23):4269-4277.
 463. Yu M, Iyer RR, Azad TD, Wang Q, Garzon-Muvdi T, Wang J, Liu A, Burger P, Eberhart C, Rodriguez FJ, Sciubba DM, Wolinsky JP, **Gokaslan Z**, Groves ML, Jallo GI, Bettgowda C. Genomic Landscape of Intramedullary Spinal Cord Gliomas. *Sci Rep.* 2019 Dec 10;9(1):18722.
 464. Yu JYH, Collins S, Liu DD, Leary OP, Merck D, Konakondla S, Nakhla J, Barber SM, Telfeian AE, Oyelese AA, **Gokaslan ZL**, Fridley JS. Objective indirect assessment of transverse ligament competence using quantitative analysis of 3D segmented flexion-extension computed tomography. *World Neurosurg.* 2019 Dec 30. pii: S1878-8750(19)33155-9.
 465. Barzilai O, Versteeg AL, Goodwin CR, Sahgal A, Rhines LD, Sciubba DM, Schuster JM, Weber MH, Lazary A, Fehlings MG, Clarke MJ, Arnold PM, Boriani S, Bettgowda C, **Gokaslan ZL**, Fisher CG, Laufer I; AOSpine Knowledge Forum Tumor. Association of Neurologic Deficits With Surgical Outcomes and Health-Related Quality of Life After Treatment for Metastatic Epidural Spinal Cord Compression. *Cancer.* 2019 Dec 1;125(23):4224-4231. doi: 10.1002/cncr.32420.
 466. Rai SS, Goulart C, **Gokaslan Z**, Galgano M. Tandem Thoracic Spinal Cord Lesions of Differing Pathologies: Concurrent Metastatic Lung Adenocarcinoma Lesion in Close Proximity to a Intradural Meningioma. *Cureus.* 2020 Jan 13;12(1):e6646.
 467. Bond MR, Versteeg AL, Sahgal A, Rhines LD, Sciubba DM, Schuster JM, Weber MH, Fehlings MG, Lazary A, Clarke MJ, Boriani S, Bettgowda C, Arnold PM, **Gokaslan ZL**, Fisher CG. Surgical or Radiation Therapy for the Treatment of Cervical Spine Metastases: Results From the Epidemiology, Process, and Outcomes of Spine Oncology (EPOSO) Cohort. *Global Spine J.* 2020 Feb;10(1):21-29.
 468. Leary OP, Liu DD, Boyajian MK, Syed S, Camara-Quintana JQ, Niu T, Svokos KA, Crozier J, Oyelese AA, Liu PY, Woo AS, **Gokaslan ZL**, Fridley JS. Complex wound closure by plastic surgery following resection of spinal neoplasms minimizes postoperative wound complications in high-risk patients. *J Neurosurg Spine.* 2020 Feb 28:1-10.
 469. Atesok K, Papavassiliou E, Heffernan MJ, Tunmire D, Sitnikov I, Tanaka N, Rajaram S, Pittman J, **Gokaslan ZL**, Vaccaro A, Theiss S. Current Strategies in Prevention of Postoperative Infections in Spine Surgery. *Global Spine J.* 2020 Apr;10(2):183-194.
 470. Telfeian AE, Oyelese A, Fridley J, Ali R, Cielo D, **Gokaslan ZL**. A Transforaminal Endoscopic Surgical Technique for Treating Lumbar Disc Herniation in the Setting of Spina Bifida. *Case Rep Neurol Med.* 2020 Mar 9;2020:1076847.
 471. Telfeian AE, Oyelese A, Fridley J, Doberstein C, **Gokaslan ZL**. Endoscopic surgical treatment for symptomatic spinal metastases in long-term cancer survivors. *J Spine Surg.* 2020 Jun;6(2):372-382.
 472. Shen J, Telfeian AE, Shaaya E, Oyelese A, Fridley J, **Gokaslan ZL**. Full endoscopic cervical spine surgery. *J Spine Surg.* 2020 Jun;6(2):383-390.
 473. Versteeg AL, Sahgal A, Rhines LD, Sciubba DM, Schuster JM, Weber MH, Lazary A, Boriani S, Bettgowda C, Fehlings MG, Clarke MJ, Arnold PM, **Gokaslan ZL**, Fisher CG; AOSpine Knowledge Forum Tumor. Health related quality of life outcomes following surgery and/or radiation for patients with potentially unstable spinal metastases. *Spine J.* 2020 Oct 22:S1529-9430(20)31180-3.
 474. Telfeian AE, Shen J, Shaaya E, Oyelese A, Fridley J, **Gokaslan Z**. Transforaminal Endoscopic Solutions for Anterior Lumbar Interbody Fusion Complications. *World Neurosurg.* 2020 Nov;143:e122-e126.
 475. Leary OP, Merck LH, Yeatts SD, Pan I, Liu DD, Harder TJ, Jung S, Collins S, Braileanu M, **Gokaslan ZL**, Allen JW, Wright DW, Merck D. Computer-Assisted Measurement of Traumatic Brain Hemorrhage Volume Is More Predictive of Functional Outcome and Mortality than Standard ABC/2 Method: An Analysis of Computed Tomography Imaging Data from the Progesterone for Traumatic Brain Injury Experimental Clinical Treatment Phase-III Trial. *J Neurotrauma.* 2021 Jan 8. doi: 10.1089/neu.2020.7209.
 476. Liu DD, Rivera-Lane K, Leary OP, Pertsch NJ, Niu T, Camara-Quintana JQ, Oyelese AA, Fridley JS, **Gokaslan ZL**.

- Supplementation of Screw-Rod C1-C2 Fixation With Posterior Arch Femoral Head Allograft Strut. *Oper Neurosurg* (Hagerstown). 2021 Jan 13;20(2):226-231.
477. Beland MD, McElroy AW, Brinker T, **Gokaslan ZL**, Klinge PM. In Vivo Ultrasound Imaging of the Spinal Cord and Subarachnoid Space at the C1-C2 Level in Healthy Adult Subjects. *Ultrasound Q*. 2020 Dec 8
 478. Fridley JS, Syed S, Niu T, Leary OP, **Gokaslan ZL**. Presentation of spinal cord and column tumors. *Neurooncol Pract*. 2020 Nov 18;7(Suppl 1):i18-i24.
 479. Mattox AK, Yang B, Douville C, Lo SF, Sciubba D, Wolinsky JP, **Gokaslan ZL**, Robison J, Blair C, Jiao Y, Bettegowda C. The mutational landscape of spinal chordomas and their sensitive detection using circulating tumor DNA. *Neurooncol Adv*. 2020 Dec 8;3(1):vdaa173.
 480. Barber SM, Sadrameli SS, Lee JJ, Fridley JS, Teh BS, Oyelese AA, Telfeian AE, **Gokaslan ZL**. Chordoma-Current Understanding and Modern Treatment Paradigms. *J Clin Med*. 2021 Mar 4;10(5):1054.
 481. Akinduro OO, Suarez-Meade P, Garcia D, Brown DA, Sarabia-Estrada R, Attia S, **Gokaslan ZL**, Quiñones-Hinojosa A. Targeted Therapy for Chordoma: Key Molecular Signaling Pathways and the Role of Multimodal Therapy. *Target Oncol*. 2021 May;16(3):325-337.
 482. Dandurand C, Fisher CG, Rhines LD, Boriani S, Charest-Morin R, Gasbarrini A, Luzzati A, Reynolds JJ, Wei F, **Gokaslan ZL**, Bettegowda C, Sciubba DM, Lazary A, Kawahara N, Clarke MJ, Rampersaud YR, Disch AC, Chou D, Shin JH, Hornicek FJ, Laufer I, Sahgal A, Dea N. Feasibility of achieving planned surgical margins in primary spine tumor: a PTRON study. *Neurosurg Focus*. 2021 May;50(5):E16.
 483. Visco ZR, Liu DD, Leary OP, Oyelese AA, **Gokaslan ZL**, Camara-Quintana JQ, Galgano MA. A transpedicular approach to complex ventrally situated thoracic intradural extramedullary tumors: technique, indications, and multiinstitutional case series. *Neurosurg Focus*. 2021 May;50(5):E19.
 484. Bilsky MH, **Gokaslan Z**, Shin JH, Dea N, Ynoe de Moraes F. Introduction. Treatment of spinal cord and spinal axial tumors. *Neurosurg Focus*. 2021 May;50(5):E1.
 485. Klinge PM, McElroy A, Donahue JE, Brinker T, **Gokaslan ZL**, Beland MD. Abnormal spinal cord motion at the craniocervical junction in hypermobile Ehlers-Danlos patients. *J Neurosurg Spine*. 2021 May 21:1-7.
 486. Darveau SC, Leary OP, Persad-Paisley EM, Shaaya EA, Oyelese AA, Fridley JS, Sampath P, Camara-Quintana JQ, **Gokaslan ZL**, Niu T. Existing clinical evidence on the use of cellular bone matrix grafts in spinal fusion: updated systematic review of the literature. *Neurosurg Focus*. 2021 Jun;50(6):E12.
 487. Shao B, Tang OY, Leary OP, Abdulrazeq H, Sastry RA, Brown S, Wilson IB, Asaad WF, **Gokaslan ZL**. Demand for Essential Nonambulatory Neurosurgical Care Decreased While Acuity of Care Increased During the Coronavirus Disease 2019 (COVID-19) Surge. *World Neurosurg*. 2021 Jul;151:e523-e532.
 488. Versteeg AL, Sahgal A, Laufer I, Rhines LD, Sciubba DM, Schuster JM, Weber MH, Lazary A, Boriani S, Bettegowda C, Fehlings MG, Clarke MJ, Arnold PM, **Gokaslan ZL**, Fisher CG; AO Spine Knowledge Forum Tumor. Correlation Between the Spinal Instability Neoplastic Score (SINS) and Patient Reported Outcomes. *Global Spine J*. 2021 Jul 26:21925682211033591.
 489. Yang W, Rincon-Torroella J, Feghali J, Khalafallah AM, Ishida W, Perdomo-Pantoja A, Quiñones-Hinojosa A, Lim M, Gallia GL, Riggins GJ, Anderson WS, Lo SL, Rigamonti D, Tamargo RJ, Witham TF, Bydon A, Cohen AR, Jallo GI, Latremoliere A, Luciano MG, Mukherjee D, Olivi A, Qu L, **Gokaslan ZL**, Sciubba DM, Tyler B, Brem H, Huang J. Impact of international research fellows in neurosurgery: results from a single academic center. *J Neurosurg*. 2021 Jul 23;136(1):295-305. doi: 10.3171/2021.1.JNS203824.
 490. Pahuta MA, Fisk F, Versteeg AL, Fisher CG, Sahgal A, **Gokaslan ZL**, Reynolds JJ, Laufer I, Lazary A, Rhines LD, Boriani S, Bettegowda C, Dea N; AO Spine Knowledge Forum Tumor. Calculating Utilities From the Spine Oncology Study Group Outcomes Questionnaire: A Necessity for Economic and Decision Analysis. *Spine (Phila Pa 1976)*. 2021 Sep 1;46(17):1165-1171.
 491. Telfeian AE, **Gokaslan ZL**, Santarius T, Kim HS. Introduction. Innovations in neurosurgical quality and safety. Telfeian AE, **Gokaslan ZL**, Santarius T, Kim HS.
 492. Ali R, Syed S, Sastry RA, Abdulrazeq H, Shao B, Roye GD, Doberstein CE, Oyelese A, Niu T, **Gokaslan ZL**, Telfeian A. Toward more accurate documentation in neurosurgical care. *Neurosurg Focus*. 2021 Nov;51(5):E11.
 493. Hagan MJ, Pertsch NJ, Leary OP, Zheng B, Camara-Quintana JQ, Niu T, Mueller K, Boghani Z, Telfeian AE, **Gokaslan ZL**, Oyelese AA, Fridley JS. Influence of psychosocial and sociodemographic factors in the surgical management of traumatic cervicothoracic spinal cord injury at level I and II trauma centers in the United States. *J Spine Surg*. 2021 Sep;7(3):277-288.
 494. Barrios-Anderson A, Wu E, Liu DD, Snead J, Lee DJ, Robbins J, Aguirre J, Tang O, Garcia CM, Pucci F, Anderson MN, Syed S, Shaaya E, **Gokaslan ZL**. A survey study examining the motivations, concerns, and perspectives of medical students engaging in neurosurgical research. *Surg Neurol Int*. 2021 Sep 30;12:490.
 495. Barrios-Anderson A, Liu DD, Snead J, Wu E, Lee DJ, Robbins J, Aguirre J, Tang O, Garcia CM, Pucci F, Anderson MN, Syed S, Shaaya E, **Gokaslan Z**. In Reply to the Letter to the Editor Regarding "The National Student Neurosurgical Research Conference: A Research Conference for Medical Students". *World Neurosurg*. 2022 Jan;157:259.

496. Hagan MJ, Syed S, Leary OP, Persad-Paisley EM, Lin Y, Zheng B, Shao B, Abdulrazeq H, Yu JYH, Telfeian AE, **Gokaslan ZL**, Fridley JS, Oyelese AA. Pedicle Screw Placement Using Intraoperative CT and Computer Aided Spinal Navigation Improves Screw Accuracy and Avoids Postoperative Revisions: Single-Center Analysis Of 1400 Pedicle Screws. *World Neurosurg*. 2022 Jan 3;S1878-8750(21)01957-4.
497. Jin Y, Liu A, Overbey JR, Medikonda R, Feghali J, Krishnan S, Ishida W, Pairojboriboon S, **Gokaslan ZL**, Wolinsky JP, Theodore N, Bydon A, Sciubba DM, Witham TF, Lo SL. Risk factors for surgical intervention in patients with primary spinal infection on initial presentation. *J Neurosurg Spine*. 2022 Feb 4:1-9.
498. Hersh AM, Patel J, Pennington Z, Porras JL, Goldsborough E, Antar A, Elsamadicy AA, Lubelski D, Wolinsky JP, Jallo G, **Gokaslan ZL**, Lo SL, Sciubba DM. Perioperative outcomes and survival after surgery for intramedullary spinal cord tumors: a single-institution series of 302 patients. *J Neurosurg Spine*. 2022 Feb 25:1-11.
499. Feler J, Sun F, Bajaj A, Hagan M, Kanekar S, Sullivan PLZ, Fridley JS, **Gokaslan ZL**. Complication Avoidance in Surgical Management of Vertebral Column Tumors. *Curr Oncol*. 2022 Feb 25;29(3):1442-1454.
500. Versteeg AL, Elkaim LM, Sahgal A, Rhines LD, Sciubba DM, Schuster JM, Fehlings MG, Lazary A, Clarke MJ, Arnold PM, Bettgowda C, Boriani S, **Gokaslan ZL**, Fisher CG, Weber MH; AO Spine Knowledge Forum Tumor. Steroids in the Management of Preoperative Neurological Deficits in Metastatic Spine Disease: Results From the EPOSO Study. *Neurospine*. 2022 Mar;19(1):43-50.
501. Sullivan PZ, Niu T, Abinader JF, Syed S, Sampath P, Telfeian A, Fridley J, Klinge P, Camara J, Oyelese A, **Gokaslan ZL**. Evolution of surgical treatment of metastatic spine tumors. *J Neurooncol*. 2022 Apr;157(2):277-283
502. Hagan MJ, Pertsch NJ, Leary OP, Xi K, Zheng B, Camara-Quintana JQ, Niu T, Sullivan PZ, Abinader JF, Telfeian AE, **Gokaslan ZL**, Oyelese AA, Fridley JS. Socioeconomic and Psychosocial Predictors of Magnetic Resonance Imaging After Cervical and Thoracic Spine Trauma in the United States. *World Neurosurg*. 2022 May;161:e757-e766.
503. Tang OY, Barrios-Anderson A, Hobbs K, Palumbo M, Bajaj AI, Pugacheva A, Leary OP, Anderson MN, Feler JR, Pucci FG, **Gokaslan ZL**. Letter: The Brown Student Neurosurgery & Neurology Research Conference: A Model for Student-Centric Neurosurgical Research Dissemination in the Virtual Conference Era. *Neurosurgery*. 2022 May 1;90(5):e133-e136.
504. Hersh AM, Antar A, Pennington Z, Aygun N, Patel J, Goldsborough E 3rd, Porras JL, Elsamadicy AA, Lubelski D, Wolinsky JP, Jallo GI, **Gokaslan ZL**, Lo SL, Sciubba DM. Predictors of survival and time to progression following operative management of intramedullary spinal cord astrocytomas. *J Neurooncol*. 2022 May;158(1):117-127.
505. Klinge PM, Srivastava V, McElroy A, Leary OP, Ahmed Z, Donahue JE, Brinker T, De Vloo P, **Gokaslan ZL**. Diseased Filum Terminale as a Cause of Tethered Cord Syndrome in Ehlers-Danlos Syndrome: Histopathology, Biomechanics, Clinical Presentation, and Outcome of Filum Excision. *World Neurosurg*. 2022 Jun;162:e492-e502.
506. Zheng B, Leary OP, Liu DD, Nuss S, Barrios-Anderson A, Darveau S, Syed S, **Gokaslan ZL**, Telfeian AE, Fridley JS, Oyelese AA. Radiographic analysis of neuroforaminal and central canal decompression following lateral lumbar interbody fusion. *N Am Spine Soc J*. 2022 Mar 6;10:100110.
507. Sastry RA, Hagan MJ, Feler J, Shaaya EA, Sullivan PZ, Abinader JF, Camara JQ, Niu T, Fridley JS, Oyelese AA, Sampath P, Telfeian AE, **Gokaslan ZL**, Toms SA, Weil RJ. Influence of Time of Discharge and Length of Stay on 30-Day Outcomes After Elective Anterior Cervical Spine Surgery. *Neurosurgery*. 2022 Jun 1;90(6):734-742.
508. Hagan MJ, Sastry RA, Feler J, Shaaya EA, Sullivan PZ, Abinader JF, Camara JQ, Niu T, Fridley JS, Oyelese AA, Sampath P, Telfeian AE, **Gokaslan ZL**, Toms SA, Weil RJ. Neighborhood-Level Socioeconomic Status Predicts Extended Length of Stay After Elective Anterior Cervical Spine Surgery. *World Neurosurg*. 2022 Jul;163:e341-e348.
509. Klinge PM, McElroy A, Leary OP, Donahue JE, Mumford A, Brinker T, **Gokaslan ZL**. Not Just an Anchor: The Human Filum Terminale Contains Stretch Sensitive and Nociceptive Nerve Endings and Responds to Electrical Stimulation With Paraspinal Muscle Activation. *Neurosurgery*. 2022 Jul 21.
510. Tang OY, Sullivan PZ, Tubre T, Feler J, Shao B, Hart J, **Gokaslan ZL**. Navigation-assisted resection of tumoral calcinosis of the lumbosacral spine: illustrative case. *J Neurosurg Case Lessons*. 2022 Jul 25;4(4):CASE22213.
511. Hersh AM, Patel J, Pennington Z, Antar A, Goldsborough E, Porras JL, Feghali J, Elsamadicy AA, Lubelski D, Wolinsky JP, Jallo GI, **Gokaslan ZL**, Lo SL, Sciubba DM. A novel online calculator to predict nonroutine discharge, length of stay, readmission, and reoperation in patients undergoing surgery for intramedullary spinal cord tumors. *Spine J*. 2022 Aug;22(8):1345-1355.
512. Hagan MJ, Pertsch NJ, Leary OP, Sastry R, Ganga A, Xi K, Zheng B, Kondamuri NS, Camara-Quintana JQ, Niu T, Sullivan PZ, Abinader JF, Telfeian AE, **Gokaslan ZL**, Oyelese AA, Fridley JS. Influence of Sociodemographic and Psychosocial Factors on Length of Stay After Surgical Management of Traumatic Spine Fracture with Spinal Cord Injury. *World Neurosurg*. 2022 Aug 6:S1878-8750(22)01080-4.
513. Hagan MJ, Telfeian AE, Sastry R, Ali R, Lewandrowski KU, Konakondla S, Barber S, Lane K, **Gokaslan ZL**. Awake transforaminal endoscopic lumbar facet cyst resection: technical note and case series. *J Neurosurg Spine*. 2022 Aug 19:1-8.
514. Sastry RA, Feler JR, Shao B, Ali R, McNicoll L, Telfeian AE, Oyelese AA, Weil RJ, **Gokaslan ZL**. Frailty independently predicts unfavorable discharge in non-operative traumatic brain injury: A retrospective single-institution cohort study. *PLoS One*. 2022 Oct 7;17(10):e0275677.

515. Nuss S, Leary OP, Zheng B, Darveau SC, Barrios-Anderson A, Niu T, Gokaslan ZL, Sampath P, Telfeian AE, Oyelese AA, Fridley JS. Instrumentation choice and early radiographic outcome following lateral lumbar interbody fusion (LLIF): Lateral instrumentation versus posterior pedicle screw fixation. *N Am Spine Soc J*. 2022 Oct 7;12:100176.
516. Persad-Paisley EM, Andrea SB, Leary OP, Carvalho OD, Zeyl VG, Laguna AR, Anderson MN, Shao B, Toms SA, Oyelese AA, **Gokaslan ZL**, Sharkey KM. Continued underrepresentation of historically excluded groups in the neurosurgery pipeline: an analysis of racial and ethnic trends across stages of medical training from 2012 to 2020. *J Neurosurg*. 2022 Oct 21:1-10.
517. Elsamadicy AA, Koo AB, Reeves BC, Cross JL, Hersh A, Hengartner AC, Karhade AV, Pennington Z, Akinduro OO, Larry Lo SF, Gokaslan ZL, Shin JH, Mendel E, Sciubba DM. Utilization of Machine Learning to Model Important Features of 30-day Readmissions following Surgery for Metastatic Spinal Column Tumors: The Influence of Frailty. *Global Spine J*. 2022 Nov 1:21925682221138053.
518. Sastry RA, Hagan M, Feler J, Abdulrazeq H, Walek K, Sullivan PZ, Abinader JF, Camara JQ, Niu T, Fridley JS, Oyelese AA, Sampath P, Telfeian AE, Gokaslan ZL, Toms SA, Weil RJ. Time of Discharge and 30-Day Re-Presentation to an Acute Care Setting After Elective Lumbar Decompression Surgery. *Neurosurgery*. 2022 Nov 16.
519. Zheng B, Leary OP, Beer RA 2nd, Liu DD, Nuss S, Barrios-Anderson A, Darveau S, Syed S, **Gokaslan ZL**, Telfeian AE, Oyelese AA, Fridley JS. Long-Term Motor versus Sensory Lumbar Plexopathy After Lateral Lumbar Interbody Fusion: Single-Center Experience, Intraoperative Neuromonitoring Results, and Multivariate Analysis of Patient-Level Predictors. *World Neurosurg*. 2022 Nov 24:S1878-8750(22)01624-2.
520. Ali R, Hagan MJ, Shaaya E, Leary OP, Feler J, Bajaj A, Gokaslan Z, Konakondla S, Mahan MA, Wagner R, Lewandrowski KU, Telfeian AE. Endoscopic Techniques for Spinal Oncology: A Systematic Literature Review. *Int J Spine Surg*. 2022 Nov 28:8412.
521. Hagan MJ, Pertsch NJ, Leary OP, Ganga A, Sastry R, Xi K, Zheng B, Behar M, Camara-Quintana JQ, Niu T, Sullivan PZ, Abinader JF, Telfeian AE, **Gokaslan ZL**, Oyelese AA, Fridley JS. Influence of socioeconomic factors on discharge disposition following traumatic cervicothoracic spinal cord injury at level I and II trauma centers in the United States. *N Am Spine Soc J*. 2022 Nov 25;12:100186.
522. Gendreau J, Jimenez A, Lozinsky S, Zenonos G, Gardner P, Raza S, Dea N, Gokaslan Z, Choby G, Van Gompel J, Redmond K, Gallia G, Bettgowda C, Rowan N, Kuo CC, Mukherjee D. Radiotherapy After Gross Total Resection of Skull Base Chordoma: A Surveillance, Epidemiology, and End Results Database Analysis of Survival Outcomes. *World Neurosurg*. 2022 Dec 9:S1878-8750(22)01717-X.
523. Akinduro OO, Suarez-Meade P, Roberts M, Tzeng SY, Sarabia-Estrada R, Schiapparelli P, Norton ES, Gokaslan ZL, Anastasiadis PZ, Guerrero-Cázares H, Green JJ, Quiñones-Hinojosa A. Verteporfin-loaded microparticles for radiosensitization of preclinical lung and breast metastatic spine cancer. *J Neurosurg Spine*. 2022 Dec 30:1-13.
524. Ganga A, Kim EJ, Tang OY, Feler JR, Sastry RA, Anderson MN, Keith SE, Fridley JS, **Gokaslan ZL**, Cielo DJ, Toms SA, Sullivan PZ. The burden of unhelmeted motorcycle injury: A nationwide scoring-based analysis of helmet safety legislation. *Injury*. 2023 Jan 3:S0020-1383(23)00009-8.
525. Alomari S, Lubelski D, Lehner K, Tang A, Wolinsky JP, Theodore N, Sciubba DM, Larry Lo SF, Belzberg A, Weingart J, Witham T, **Gokaslan ZL**, Bydon A. Safety and Accuracy of Freehand Pedicle Screw Placement and the Role of Intraoperative O-Arm: A Single-Institution Experience. *Spine (Phila Pa 1976)*. 2023 Feb 1;48(3):180-188.
526. MacLean MA, Georgiopoulos M, Charest-Morin R, Goodwin CR, Laufer I, Dea N, Shin JH, **Gokaslan ZL**, Rhines LD, O'Toole JE, Sciubba DM, Fehlings MG, Stephens BF, Bettgowda C, Myrehaug S, Disch AC, Netzer C, Kumar N, Sahgal A, Gerscheid NM, Weber MH. Perception of frailty in spinal metastatic disease: international survey of the AO Spine community. *J Neurosurg Spine*. 2023 Mar 3:1-11. doi: 10.3171/2023.1.SPINE221433.
527. Klinge PM, Ma KL, Leary OP, Sastry RA, Sayied S, Venegas O, Brinker T, **Gokaslan ZL**. Charlson comorbidity index applied to shunted idiopathic normal pressure hydrocephalus. *Sci Rep*. 2023 Mar 29;13(1):5111. doi: 10.1038/s41598-023-32088-4.
528. Ali R, Tang OY, Moldovan K, Torabi R, Furie K, Roye GD, **Gokaslan ZL**, Telfeian A, Yaghi S, Doberstein CE, Jayaraman MV. Letter: A Stroke Admissions Navigator Improves Adherence to Joint Commission Specifications for Hunt-Hess and Intracerebral Hemorrhage Scores. *Neurosurgery*. 2023 May 1;92(5):e118-e119.
529. Ali R, Tang OY, Connolly ID, Fridley JS, Shin JH, Zadnik Sullivan PL, Cielo D, Oyelese AA, Doberstein CE, Telfeian AE, **Gokaslan ZL**, Asaad WF. Performance of ChatGPT, GPT-4, and Google Bard on a Neurosurgery Oral Boards Preparation Question Bank. *Neurosurgery*. 2023 Jun 12. doi: 10.1227/neu.0000000000002551.
530. Martinez Moreno M, Wang E, Schroeder C, Sullivan P, **Gokaslan Z**. Shedding light on emerging therapeutic targets for chordoma. *Expert Opin Ther Targets*. 2023 Jul-Dec;27(8):705-713. doi: 10.1080/14728222.2023.2248382.
531. Sastry RA, Chen JS, Shao B, Weil RJ, Chang KE, Maynard K, Syed SH, Zadnik Sullivan PL, Camara JQ, Niu T, Sampath P, Telfeian AE, Oyelese AA, Fridley JS, **Gokaslan ZL**. Patterns in Decompression and Fusion Procedures for Patients With Lumbar Stenosis After Major Clinical Trial Results, 2016 to 2019. *JAMA Netw Open*. 2023 Jul 3;6(7):e2326357. doi: 10.1001/jamanetworkopen.2023.26357.

532. Akinduro OO, Ghaith AK, El-Hajj VG, Ghanem M, Soltan F, Nieves AB, Abode-Iyamah K, Shin JH, **Gokaslan ZL**, Quinones-Hinojosa A, Bydon M. Effect of race, sex, and socioeconomic factors on overall survival following the resection of intramedullary spinal cord tumors. *J Neurooncol*. 2023 Aug;164(1):75-85. doi: 10.1007/s11060-023-04373-9.
533. Torabi R, Carnevale JA, Abdulrazeq H, Anderson M, Jayaraman M, Oyelese A, **Gokaslan Z**, Moldovan K. Minimizing blood loss with direct percutaneous polymethylmethacrylate embolization before corpectomy for vascular spinal tumors. *Surg Neurol Int*. 2023 Aug 4;14:280. doi: 10.25259/SNI_604_2023.
534. Tang OY, Ali R, Connolly ID, Fridley JS, Zadnik Sullivan PL, Cielo D, Oyelese AA, Doberstein CE, Telfeian AE, **Gokaslan ZL**, Shin JH, Asaad WF. Letter: The Urgency of Neurosurgical Leadership in the Era of Artificial Intelligence. *Neurosurgery*. 2023 Sep 1;93(3):e69-e70. doi: 10.1227/neu.0000000000002576.
535. Ganga A, Kim EJ, Lee JY, Leary OP, Sastry RA, Fridley JS, Chang KE, Niu T, Sullivan PZ, Somasundar PS, **Gokaslan ZL**. Disparities in Primary Spinal Osseous Malignant Bone Tumor Survival by Medicaid Status: A National Population-Based Risk Analysis. *World Neurosurg*. 2023 Sep 29;S1878-8750(23)01371-2. doi: 10.1016/j.wneu.2023.09.103.
536. Hersh AM, Pennington Z, Lubelski D, Elsamadicy AA, Dea N, Desai A, **Gokaslan ZL**, Goodwin CR, Hsu W, Jallo GI, Krishnaney A, Laufer I, Lo SL, Macki M, Mehta AI, Ozturk A, Shin JH, Soliman H, Sciubba DM. Treatment of intramedullary spinal cord tumors: a modified Delphi technique of the North American Spine Society Section of Spine Oncology. *J Neurosurg Spine*. 2023 Oct 13;40(1):1-10. doi: 10.3171/2023.8.SPINE23190.
537. Singh M, Bajaj A, Shlimak A, Kanekar S, Rampichini M, **Gokaslan ZL**, Scarfo KA, Leary OP, Guglielmo MA. Short-Term Pain Outcomes and Pain Medication Utilization Among Urine Toxicology-Identified Opioid and Marijuana Users After Elective Spine Surgery. *Neurosurgery*. 2023 Oct 20. doi: 10.1227/neu.0000000000002727.
538. Ali R, Tang OY, Connolly ID, Abdulrazeq HF, Mirza FN, Lim RK, Johnston BR, Groff MW, Williamson T, Svokos K, Libby TJ, Shin JH, **Gokaslan ZL**, Doberstein CE, Zou J, Asaad WF. Demographic Representation in 3 Leading Artificial Intelligence Text-to-Image Generators. *AMA Surg*. 2023 Nov 15. doi: 10.1001/jamasurg.2023.5695.
539. Ali R, Tang OY, Connolly ID, Zadnik Sullivan PL, Shin JH, Fridley JS, Asaad WF, Cielo D, Oyelese AA, Doberstein CE, **Gokaslan ZL**, Telfeian AE. Performance of ChatGPT and GPT-4 on Neurosurgery Written Board Examinations. *Neurosurgery*. 2023 Dec 1;93(6):1353-1365. doi: 10.1227/neu.0000000000002632.
540. Ganga A, Leary OP, Setty A, Xi K, Telfeian AE, Oyelese AA, Niu T, Camara-Quintana JQ, **Gokaslan ZL**, Zadnik Sullivan P, Fridley JS. Optimizing surgical management of facet cysts of the lumbar spine: systematic review, meta-analysis, and local case series of 1251 patients. *J Neurosurg Spine*. 2023 Dec 1;39(6):793-806. doi: 10.3171/2023.6.SPINE23404.
541. Gong JH, Sastry R, Koh DJ, Soliman L, Sobti N, Oyelese AA, **Gokaslan ZL**, Fridley J, Woo AS. Early Outcomes of Muscle Flap Closures in Posterior Thoracolumbar Fusions: A Propensity-Matched Cohort Analysis. *World Neurosurg*. 2023 Dec;180:e392-e407. doi: 10.1016/j.wneu.2023.09.078.
542. Ganga A, Kim EJ, Tang OY, Shao B, Svokos K, Klinge PM, Cielo DJ, Fridley JS, **Gokaslan ZL**, Toms SA, Sullivan PZ. The epidemiology of crib-related head injuries: A ten-year nationwide analysis. *Am J Emerg Med*. 2023 Dec;74:78-83. doi: 10.1016/j.ajem.2023.09.042.
543. Goodwin CR, Price M, Goodwin AN, Dalton T, Versteeg AL, Sahgal A, Rhines LD, Schuster JM, Weber MH, Lazary A, Boriani S, Bettgowda C, Fehlings MG, Arnold PM, Dea N, Charest-Morin R, Shin J, Laufer I, Chou D, **Gokaslan ZL**, Clarke MJ, Fisher CG, Sciubba DM; AO Spine Knowledge Forum Tumor. Gender and Sex Differences in Health-related Quality of Life, Clinical Outcomes and Survival after Treatment of Metastatic Spine Disease. *Spine (Phila Pa 1976)*. 2023 Dec 27. doi: 10.1097/BRS.0000000000004910.
544. Abdulrazeq H, Leary OP, Tang OY, Karimi H, McElroy A, **Gokaslan Z**, Punsoni M, Donahue JE, Klinge PM. The Surgical Histopathology of the Filum Terminale: Findings from a Large Series of Patients with Tethered Cord Syndrome. *J Clin Med*. 2023 Dec 19;13(1):6. doi: 10.3390/jcm13010006.
545. Guo CR, Rivera Perla KM, Leary OP, Sastry RA, Borrelli MR, Liu DD, Khunte M, **Gokaslan ZL**, Liu PY, Kwan D, Fridley JS, Woo AS. Systematic Review of Prophylactic Plastic Surgery Closure to Prevent Postoperative Wound Complications Following Spine Surgery. *World Neurosurg*. 2024 Apr;184:103-111. doi: 10.1016/j.wneu.2024.01.007. Epub 2024 Jan 6.
546. Sastry RA, Levy JF, Chen JS, Weil RJ, Oyelese AA, Fridley JS, **Gokaslan ZL**. Lumbar Decompression with and without Fusion for Lumbar Stenosis with Spondylolisthesis: A Cost Utility Analysis. *Spine (Phila Pa 1976)*. 2024 Jan 22. doi: 10.1097/BRS.0000000000004928.
547. Abdulrazeq HF, Ali R, Najib H, Doberstein C, Oyelese A, **Gokaslan Z**, Malik AN, Asaad WF, Greenblatt S. Al-Zahrawi (936-1013 AD): On the Surgical Treatment of Neurological Disorders by the Father of Operative Surgery. *World Neurosurg*. 2024 Apr;184:236-240.e1. doi: 10.1016/j.wneu.2024.01.169. Epub 2024 Feb 6.
548. Pham J, Shaaya E, Rhee B, Kimata A, Ozcan EE, Pham KM, Niu T, Sullivan P, **Gokaslan ZL**. Gross total resection and survival outcomes in elderly patients with spinal chordoma: a SEER-based analysis. *Front Oncol*. 2024 Jan 30;13:1327330. doi: 10.3389/fonc.2023.1327330. eCollection 2023.
549. Ali R, Connolly ID, Tang OY, Mirza FN, Johnston B, Abdulrazeq HF, Lim RK, Galamaga PF, Libby TJ, Sodha NR, Groff MW, **Gokaslan ZL**, Telfeian AE, Shin JH, Asaad WF, Zou J, Doberstein CE. Bridging the literacy gap for surgical consents: an AI-human expert collaborative approach. *NPJ Digit Med*. 2024 Mar 8;7(1):63. doi: 10.1038/s41746-024-01039-2.

550. Klinge PM, Leary OP, Allen PA, Svokos K, Sullivan P, Brinker T, **Gokaslan ZL**. Clinical criteria for filum terminale resection in occult tethered cord syndrome. *J Neurosurg Spine*. 2024 Mar 15;40(6):758-766. doi: 10.3171/2024.1.SPINE231191.
551. Campilan B, Schroeder C, Sagaityte E, Arditi J, Leary OP, **Gokaslan ZL**, Sullivan PLZ, Martinez-Moreno M. Animal model considerations for chordoma research: reproducing the tumor microenvironment in vivo with humanized mice. *Front Oncol*. 2024 Mar 13;14:1330254. doi: 10.3389/fonc.2024.1330254. eCollection 2024.
552. Ali R, Connolly ID, Tang OY, Mirza FN, Johnston B, Abdulrazeq HF, Lim RK, Galamaga PF, Libby TJ, Sodha NR, Groff MW, **Gokaslan ZL**, Telfeian AE, Shin JH, Asaad WF, Zou J, Doberstein CE. Author Correction: Bridging the literacy gap for surgical consents: an AI-human expert collaborative approach. *NPJ Digit Med*. 2024 Apr 12;7(1):93. doi: 10.1038/s41746-024-01099-4.
553. Gardner PA, Froelich S, **Gokaslan ZL**, MacDonald SM, Peris Celda M, Raza SM, Zenonos GA. Introduction. Chordoma: updates and advances. *Neurosurg Focus*. 2024 May;56(5):E1. doi: 10.3171/2024.3.FOCUS23735.
554. Schroeder C, de Lomba WC, Leary OP, De la Garza Ramos R, Gillette JS, Miner TJ, Woo AS, Fridley JS, **Gokaslan ZL**, Zadnik Sullivan PL. Multidisciplinary surgical considerations for en bloc resection of sacral chordoma: review of recent advances and a contemporary single-center series. *Neurosurg Focus*. 2024 May;56(5):E7. doi: 10.3171/2024.2.FOCUS23926.
555. Sastry RA, Setty A, Liu DD, Zheng B, Ali R, Weil RJ, Roye GD, Doberstein CE, Oyelese AA, Niu T, **Gokaslan ZL**, Telfeian AE. Natural language processing augments comorbidity documentation in neurosurgical inpatient admissions. *PLoS One*. 2024 May 9;19(5):e0303519. doi: 10.1371/journal.pone.0303519. eCollection 2024.
556. Barzilai O, Sahgal A, Rhines LD, Versteeg AL, Sciubba DM, Lazary A, Weber MH, Schuster JM, Boriani S, Bettgowda C, Arnold PM, Clarke MJ, Laufer I, Fehlings MG, **Gokaslan ZL**, Fisher CG; AO Spine Knowledge Forum Tumor. Patient-Reported and Clinical Outcomes of Surgically Treated Patients With Symptomatic Spinal Metastases: Results From Epidemiology, Process, and Outcomes of Spine Oncology (EPOSO), a Prospective, Multi-Institutional and International Study. *Neurosurgery*. 2024 Jun 4;95(5):1148-57. doi: 10.1227/neu.0000000000002989. Online ahead of print. PMID: 38832791.
557. Leary OP, Shaaya EA, Chernysh AA, Seidler M, Sastry RA, Persad-Paisley E, Zhu M, **Gokaslan ZL**, Oyelese AA, Beland MD, Fridley JS. Microbubble Contrast-Enhanced Transcutaneous Ultrasound Enables Real-Time Spinal Cord Perfusion Monitoring Following Posterior Cervical Decompression. *World Neurosurg*. 2024 Sep;189:e404-e410. doi: 10.1016/j.wneu.2024.06.077. Epub 2024 Jun 18. PMID: 38901475
558. Xia Y, Papali P, Al-Mistarehi AH, Hansen LJ, Azad TD, Ahmed AK, Meyer C, Gross J, Khan M, Bettgowda C, Mukherjee D, Witham T, Bydon A, Theodore N, Wolinsky JP, **Gokaslan Z**, Larry Lo SF, Sciubba D, Lee SH, Redmond KJ, Lubelski D. Outcomes After Definitive Surgery for Spinal and Sacral Chordoma in 101 Patients Over 20 Years. *Neurosurgery*. 2024 Aug 5. doi: 10.1227/neu.0000000000003130. Online ahead of print. PMID: 39101708.
559. Tang OY, Leary OP, Ganga A, Feler JR, Sastry RA, Bajaj AI, Ayala C, Rivera Perla KM, Monje S, Madour J, Chernysh A, Cielo DJ, Oyelese AA, Fridley JS, Toms SA, **Gokaslan ZL**, Zadnik Sullivan PL. Social determinants of health and outcome disparities in spine tumor surgery. Part 2: Neighborhood disadvantage and long-term outcomes. *J Neurosurg Spine*. 2024 Aug 30;1-10. SPINE231082. Online ahead of print. PMID: 39213662.
560. Tang OY, Ayala C, Feler JR, Sastry RA, Bajaj AI, Rivera Perla KM, Ganga A, Leary OP, Monje S, Madour J, Cielo DJ, Oyelese AA, Fridley JS, Toms SA, **Gokaslan ZL**, Zadnik Sullivan PL. Social determinants of health and outcome disparities in spine tumor surgery. Part 1: An analysis of 6.6 million nationwide admissions. *J Neurosurg Spine*. 2024 Aug 30;1-12. doi: 10.3171/2024.5.SPINE231081. Online ahead of print. PMID: 3921367.
561. Schroeder C, Campilan B, Leary OP, Arditi J, Michles MJ, De La Garza Ramos R, Akinduro OO, **Gokaslan ZL**, Martinez Moreno M, Sullivan PLZ. Therapeutic Opportunities for Biomarkers in Metastatic Spine Tumors. *Cancers (Basel)*. 2024 Sep 14;16(18):3152. doi: 10.3390/cancers16183152.
562. Zileli M, Zygorakis C, Niu T, **Gokaslan Z**, Peev N, Sharif S, Vaishya S, Yaman O, Costa F, Pojskic M. Surgical options for metastatic spine tumors: WFNS spine committee recommendations. *Neurosurg Rev*. 2024 Oct 25;47(1):821. doi: 10.1007/s10143-024-02949-1.
563. Pojskic M, Naderi S, Vaishya S, Zileli M, Costa F, Sharif S, **Gokaslan ZL**. Complication avoidance, rehabilitation, pain therapy and palliative care for patients with metastatic spine tumors: WFNS spine committee recommendations. *Neurosurg Rev*. 2024 Oct 30;47(1):830. doi: 10.1007/s10143-024-03050-3.
564. Owens TC, de Lomba WC, Schroeder CB, Mingrino J, Fridley J, Oyelese AA, Miner TJ, Liu PY, Woo AS, **Gokaslan ZL**, Zadnik Sullivan P. Excision of a supragiant spinal schwannoma: illustrative case. *J Neurosurg Case Lessons*. 2024 Nov 4;8(19):CASE24224. doi: 10.3171/CASE24224. Print 2024 Nov 4.
565. Chuck C, Ali R, Lee CK, Malik AN, Svokos KA, Cielo D, Doberstein CE, Rosenberg HJ, Boxerman JL, Rajasekaran J, Asaad WF, **Gokaslan Z**, Sampath P, Chen CC. Neuro-oncology application of next-generation, optically tracked robotic stereotaxis with intraoperative computed tomography: a pilot experience. *Neurosurg Focus*. 2024 Dec 1;57(6):E4. doi: 10.3171/2024.9.FOCUS24532.

566. Chernysh AA, Leyendecker J, Leary OP, Sastry RA, **Gokaslan ZL**, Fridley JS, Derman P, Kashlan O, Konakondla S, Ogunlade J, Hofstetter CP, Telfeian AE. Comparison of Pain and Functional Outcomes Among Geriatric and Nongeriatric Adults Following Full Endoscopic Spine Surgery for Degenerative Lumbar Pathology. *Int J Spine Surg*. 2024 Dec 17;8693. doi: 10.14444/8693.
567. Michles MJ, Martinez Moreno M, Sullivan PLZ, **Gokaslan ZL**. Editorial: Translational research in surgical applications and spinal tumors. *Front Surg*. 2024 Dec 3;11:1492713. doi: 10.3389/fsurg.2024.1492713. eCollection 2024.
568. Meier TG, Akinduro OO, Torabi R, **Gokaslan ZL**. Tumor-induced rotational vertebral artery occlusion in the upper cervical spine: illustrative case. *J Neurosurg Case Lessons*. 2024 Dec 23;8(26):CASE24415. doi: 10.3171/CASE24415. Print 2024 Dec 23.
569. Godinez C, Campilan B, Schroeder C, Arditi J, Michles MJ, Herrera BC, Gallagher K, Robinson TA, Owens T, **Gokaslan ZL**, Sullivan P, Martinez-Moreno M. Combinatorial therapies for epigenetic, immunotherapeutic, and genetic targeting of chordoma. *J Neurooncol*. 2024 Dec 31. doi: 10.1007/s11060-024-04920-y.
570. Schroeder CB, Michles MJ, Sastry RA, Chernysh AA, Leary OP, Sun F, Camara-Quintana JQ, Oyelese AA, Telfeian AE, Fridley JS, **Gokaslan ZL**, Sullivan PZ, Niu T. A retrospective cohort analysis of alignment parameters for spinal tumor patients with instrumentation at the cervicothoracic junction. *N Am Spine Soc J*. 2024 Sep 24;20:100560. doi: 10.1016/j.xnsj.2024.100560. eCollection 2024 Dec.
571. Mirza FN, Wu E, Abdulrazeq HF, Connolly ID, Tang OY, Zogg CK, Williamson T, Galamaga PF, Roye GD, Sampath P, Telfeian AE, Qureshi AA, Groff MW, Shin JH, Asaad WF, Libby TJ, **Gokaslan ZL**, Kohane IS, Zou J, Ali R. The literacy barrier in clinical trial consents: a retrospective analysis. *EClinicalMedicine*. 2024 Sep 13;75:102814. doi: 10.1016/j.eclinm.2024.102814. eCollection 2024 Sep.
572. Tan SK, Bettgowda C, Yip S, Sahgal A, Rhines L, Reynolds J, Lazary A, Laufer I, Gasbarrini A, Dea N, Verlaan JJ, **Gokaslan ZL**, Fisher CG, Boriani S, Cecchinato R, Goodwin ML, Goodwin CR, Charest-Morin R. Liquid Biopsy for Spinal Tumors: On the Frontiers of Clinical Application. *Global Spine J*. 2025 Jan;15(1_suppl):16S-28S.
573. Alvarez-Breckenridge CA, North R, Tatsui C, Kumar N, Lo SF, Mohammed K, Reynolds J, Lazary A, Laufer I, Verlaan JJ, **Gokaslan Z**, Luzzati A, Cecchinato R, Shin J, Hornicek F, Disch A, Goodwin M, Goodwin R, Sahgal A, Gasbarrini A, Boriani S. Role of Posterior Carbon Fiber Implants in Spine Tumor Surgery. *Global Spine J*. 2025 Jan;15(1_suppl):157S-165S.
574. Kwan WC, Zuckerman SL, Fisher CG, Laufer I, Chou D, O'Toole JE, Schultheiss M, Weber MH, Sciubba DM, Pahuta M, Shin JH, Fehlings MG, Versteeg A, Goodwin ML, Boriani S, Bettgowda C, Lazary A, Gasbarrini A, Reynolds JJ, Verlaan JJ, Sahgal A, **Gokaslan ZL**, Rhines LD, Dea N. What is the Optimal Management of Metastatic Spine Patients With Intermediate Spinal Instability Neoplastic Scores: To Operate or Not to Operate? *Global Spine J*. 2025 Jan;15(1_suppl):132S-142S.
575. Biczó A, Sahgal A, Verlaan JJ, Shreyaskumar P, Szoverfi Z, Schultheiss M, Rhines L, Reynolds J, Laufer I, Gasbarrini A, Dea N, **Gokaslan Z**, Fisher C, Bettgowda C, Boriani S, Hornicek F, Goodwin R, Lazary A. Latest Developments in Targeted Biological Therapies in the Management of Chordoma and Chondrosarcoma. *Global Spine J*. 2025 Jan;15(1_suppl):120S-131S.
576. Pahuta M, Laufer I, Lo SL, Boriani S, Fisher C, Dea N, Weber MH, Chou D, Sahgal A, Rhines L, Reynolds J, Lazary A, Gasbarrini A, Verlaan JJ, **Gokaslan Z**, Bettgowda C, Sarraj M, Barzilai O; AO Spine Knowledge Forum Tumor. Defining Spine Cancer Pain Syndromes: A Systematic Review and Proposed Terminology. *Global Spine J*. 2025 Jan;15(1_suppl):81S-92S.
577. Leary OP, Setty A, Gong JH, Ali R, Fridley JS, Fisher CG, Sahgal A, Rhines LD, Reynolds JJ, Lazary A, Laufer I, Gasbarrini A, Dea N, Verlaan JJ, Bettgowda C, Boriani S, Mesfin A, Luzzati A, Shin JH, Cecchinato R, Hornicek FJ, Goodwin ML, **Gokaslan ZL**. Prevention and Management of Posterior Wound Complications Following Oncologic Spine Surgery: Narrative Review of Available Evidence and Proposed Clinical Decision-Making Algorithm. *Global Spine J*. 2025 Jan;15(1_suppl):143S-156S.
578. Chen H, Ghia AJ, Maralani PJ, Bettgowda C, Boriani S, Dea N, Fisher CG, Gasbarrini A, **Gokaslan ZL**, Laufer I, Lazary A, Reynolds J, Verlaan JJ, Rhines LD, Sahgal A. Advanced Radiotherapy Technologies in Spine Tumors: What the Surgeon Needs to Know. *Global Spine J*. 2025 Jan;15(1_suppl):104S-119S.
579. MacLean MA, Charles AJ, Georgiopoulos M, Phinney J, Charest-Morin R, Goodwin R, Laufer I, Fehlings MG, Shin J, Dea N, Rhines LD, Sahgal A, **Gokaslan Z**, Stephens B, Disch AC, Kumar N, O'Toole J, Sciubba DM, Netzer C, Goldschlager T, Gibbs W, Weber MH; AO Spine Knowledge Forum Tumor. A Critical Appraisal of the Application of Frailty and Sarcopenia in the Spinal Oncology Population. *Global Spine J*. 2025 Jan;15(1_suppl):47S-80S.
580. Goodwin CR, De la Garza Ramos R, Bettgowda C, Barzilai O, Shreyaskumar P, Fehlings MG, Laufer I, Sahgal A, Rhines LD, Reynolds JJ, Lazary A, Gasbarrini A, Dea N, Verlaan JJ, Sullivan PZ, **Gokaslan ZL**, Fisher CG, Boriani S, Shin JH, Hornicek FJ, Weber MH, Goodwin ML, Charest-Morin R; AO Spine Knowledge Forum Tumor. Overview of Molecular Prognostication for Common Solid Tumor Histologies - What the Surgeon Should Know. *Global Spine J*. 2025 Jan;15(1_suppl):143S-156S.

581. De la Garza Ramos R, Charest-Morin R, Goodwin CR, Zuckerman SL, Laufer I, Dea N, Sahgal A, Rhines LD, **Gokaslan ZL**, Bettgowda C, Versteeg AL, Chen H, Cordula N, Sciubba DM, O'Toole JE, Fehlings MG, Kumar N, Disch AC, Stephens B, Goldschlager T, Weber MH, Shin JH; AO Spine Knowledge Forum Tumor. Malnutrition in Spine Oncology: Where Are We and What Are We Measuring? *Global Spine J.* 2025 Jan;15(1_suppl):29S-46S.
582. Tan SK, Bettgowda C, Yip S, Sahgal A, Rhines L, Reynolds J, Lazary A, Laufer I, Gasbarrini A, Dea N, Verlaan JJ, **Gokaslan ZL**, Fisher CG, Boriani S, Cecchinato R, Goodwin ML, Goodwin CR, Charest-Morin R. Liquid Biopsy for Spinal Tumors: On the Frontiers of Clinical Application. *Global Spine J.* 2025 Jan;15(1_suppl):16S-28S. PMID: 39801114
583. Abdulrazeq H, Taman M, Ali R, Doberstein C, Sullivan P, Sampath P, Telfeian A, **Gokaslan ZL**, Fridley J, Asaad W. GLP-1 Receptor Agonists: Beyond Diabetes-What the Neurosurgeon Needs to Know. *Neurosurg Pract.* 2024 Jun 27;5(3):e00098. eCollection 2024 Sep. PMID: 39959894.
584. Taman M, Abdulrazeq H, Chuck C, Sastry RA, Ali R, Chen CC, Malik AN, Sullivan PLZ, Oyelese A, **Gokaslan ZL**, Fridley JS. Vasopressor Use in Acute Spinal Cord Injury: Current Evidence and Clinical Implications. *J Clin Med.* 2025 Jan 29;14(3):902. PMID: 39941573
585. Bangash AH, Ryvlin J, Chakravarthy V, Akinduro OO, Zadnik Sullivan PL, Niu T, Galgano MA, Shin JH, **Gokaslan ZL**, Fourman MS, Gelfand Y, Murthy SG, Yassari R, De la Garza Ramos R. Unmasking Racial, Ethnic, and Socioeconomic Disparities in United States Chordoma Clinical Trials: Systematic Review. *Cancers (Basel).* 2025 Jan 12;17(2):225. doi: 10.3390/cancers17020225. PMID: 39858008. Free PMC article. Review.
586. Sharif S, Afsar A, Zileli M, Vaishya S, **Gokaslan ZL**. Outcome prediction, quality of life, and life expectancy in metastatic spine tumors: WFNS spine committee recommendation. *Neurosurg Rev.* 2025 Feb 3;48(1):160. PMID: 39899191. Review.
587. Laflamme M, Gasbarrini A, Rhines LD, Lazary A, **Gokaslan ZL**, Reynolds JJ, Luzzati A, Disch AC, Chou D, Clarke MJ, Wei F, Bettgowda C, Rampersaud YR, Boriani S, Shin JH, Lord E, Sciubba DM, Laufer I, Sahgal A, Fisher CG, Dea N; AO Spine Knowledge Forum Tumor. Surgical Adverse Events for Primary Tumors of the Spine and Their Impact on Outcomes: An Observational Study From the Primary Tumors Research and Outcomes Network. *Neurosurgery.* 2025 Feb 5;97(1):264-276. PMID: 39907438.
588. Chernysh AA, Leyendecker J, Leary OP, Sastry RA, **Gokaslan ZL**, Fridley JS, Derman P, Kashlan O, Konakondla S, Ogunlade J, Hofstetter CP, Telfeian AE. Comparison of Pain and Functional Outcomes Among Geriatric and Nongeriatric Adults Following Full Endoscopic Spine Surgery for Degenerative Lumbar Pathology. *Int J Spine Surg.* 2025 Mar 6;19(1):27-38. PMID: 39689970. Free PMC article.
589. Wong ET, Cielo D, Svokos K, Doberstein C, Sampath P, Donahue JE, Punsoni M, Rodrigues N, Rothell F, Edwards R, Wang E, Riccelli T, Chuck C, Shaaya EA, Sastry R, Ali R, Shao B, Abdulrazeq H, Sun FW, Feler J, Santos Fontáñez SE, Nieves NA, Dobertsein C, Dailey J, Yu C, Sarangi S, Elinzano H, Boxerman JL, Yu E, Safran H, Seyhan AA, El-Deiry WS, Keith S, **Gokaslan ZL**, Chen CC, Malik A. IGV-001 cellular immunotherapy for newly diagnosed glioblastoma: overcoming the logistic challenge. *Front Oncol.* 2025 Mar 18;15:1556450.. eCollection 2025. PMID: 40171253.
590. Ali R, Abdulrazeq HF, Patil A, Cheatham M, Connolly ID, Tang OY, Doberstein CA, Riccelli T, Huang KT, Shankar GM, Williamson T, Shin JH, Carter B, Torabi R, Lee CK, Cielo D, Telfeian AE, **Gokaslan ZL**, Cohen-Gadol AA, Zou J, Asaad WF. AtlasGPT: a language model grounded in neurosurgery with domain-specific data and document retrieval. *J Neurosurg.* 2025 Apr 18;143(2):560-567. JNS241607. Print 2025 Aug 1. PMID: 40250057.
591. Sobti N, Spake CSL, Hu D, Persad-Paisley E, Rao V, King V, Sastry R, Oyelese A, **Gokaslan ZL**, Kwan D, Liu PY, Woo AS. Technique refinement for complex locoregional reconstruction after spine surgery: Optimization of closed suction drain use. *J Plast Reconstr Aesthet Surg.* 2025 Apr;103:148-156. doi: 10.1016/j.bjps.2025.01.073. Epub 2025 Jan 31. PMID: 39978170
592. Mohanam S, Chintala SK, Go Y, Bhattacharya A, Venkaiah B, Boyd D, **Gokaslan ZL**, Sawaya R, Rao JS. Retraction Note: In vitro inhibition of human glioblastoma cell line invasiveness by antisense uPA receptor. *Oncogene.* 2025 May;44(17):1209. doi: 10.1038/s41388-025-03393-1. PMID: 40200097. No abstract available.
593. Bartolozzi AR, Barzilai O, Laufer I, Sahgal A, Rhines LD, Sciubba DM, Lazary A, Weber MH, Schuster JM, Boriani S, Bettgowda C, Arnold PM, Clarke MJ, Fehlings MG, **Gokaslan ZL**, Fisher CG, Bilsky M, Dea N. Impact of surgery and radiation on radicular pain and myotomic weakness in patients with metastatic spine disease. *Neurosurg Focus.* 2025 May 1;58(5):E14. doi: 10.3171/2025.2.FOCUS 24915. PMID: 40311205.
594. Mohanam S, Chintala SK, Go Y, Bhattacharya A, Venkaiah B, Boyd D, **Gokaslan ZL**, Sawaya R, Rao JS. Acquired resistance to molecularly targeted therapies for cancer. *Cancer Drug Resist.* 2025 Jun 5;8:27. doi: 10.20517/cdr.2024.189. eCollection 2025. PMID: 40510029. Free PMC article. Review.
595. Barbanti Brodano G, Griffoni C, Salamanna F, Noli LE, Monetta A, Luzzati A, Disch AC, Lazary A, Barzilai O, Laufer I, **Gokaslan ZL**, Fehlings MG, Verlaan JJ, Chou D, Rhines LD, Shin JH, Teixeira WGJ, Sciubba DM, Bettgowda C, Charest-Morin R, Boriani S, Goldschlager T, Weber MH, Clarke MJ, O'Toole JE, Netzer C, Goodwin CR, Mesfin A, Mummaneni PV, Dea N, Reynolds JJ, Sahgal A, Fisher CG, Gasbarrini A; AO Spine Knowledge Forum Tumor. Evaluation of Adverse Events and the Impact on Health-Related Outcomes in Patients Undergoing Surgery for Metastatic Spine Tumors: Analysis

- of the Metastatic Tumor Research and Outcomes Network (MTRON) Registry Dataset. *Global Spine J.* 2025 Jun 6:21925682251347247. doi: 10.1177/21925682251347247. Online ahead of print. PMID: 40480956. Free PMC article.
596. De Souza DN, Kurland DB, Vialle L, Schnake KJ, Kurpad SN, Lewis SJ, Schroeder GD, Yoon ST, Boriani S, **Gokaslan ZL**, Rhines LD, Sahgal A, Fisher C, Laufer I. AO Spine Knowledge Forums Promote Collaboration and Elevate the Impact of Research: A Bibliometric Analysis. *Global Spine J.* 2025 Jun 13:21925682251351012. doi: 10.1177/21925682251351012. Online ahead of print. PMID: 40513712. Free PMC article. Review.
597. Al-Mistarehi AH, Zaitoun KJ, Javed S, Xia Y, Hersh A, Ghaith AK, Weber-Levine C, Jiang K, Khan M, Mendelson B, Ksabi N, Sciubba DM, **Gokaslan ZL**, Jallo GI, Wolinsky JP, Theodore N, Lubelski D. Survival and Functional Outcomes Following Surgical Resection of Intramedullary Spinal Cord Tumors: A Series of 253 Patients over 22 Years. *Cancers (Basel).* 2025 Jun 24;17(13):2112. doi: 10.3390/cancers17132112. PMID: 40647411. Free PMC article.
598. Mathkour M, **Gokaslan ZL**, Hurlbert RJ. Innovation Fatigue in Spine Surgery: Are We Doing Too Much, Too Fast? *World Neurosurg.* 2025 Jul 17:124295. doi: 10.1016/j.wneu.2025.124295. Online ahead of print. PMID: 40683466.
599. Xia Y, Papali P, Al-Mistarehi AH, Ahmed AK, Hansen LJ, Meyer C, Gross J, Khan M, Winkle M, Bettgowda C, Witham T, Bydon A, Theodore N, Wolinsky JP, **Gokaslan ZL**, Lo SL, Sciubba DM, Colakoglu S, Lee SH, Redmond KJ, Lubelski D. Long-term functional outcomes and their relationship to nerve root sacrifice after definitive surgery for sacrococcygeal chordoma. *J Neurosurg Spine.* 2025 Jul 11:1-12. SPINE241408. Online ahead of print. PMID: 40644718.
600. Myneni S, Tang L, Akbari H, Mayne R, Kazemi F, Xiong R, Redmond KJ, Bilsky MH, Charest-Morin R, Tobert DG, Chakravarthy V, Shankar GM, Lo SL, Shin JH, Wolinsky JP, Sciubba DM, **Gokaslan ZL**, Dea N, Lubelski D, Ahmed AK, Mukherjee D. The Spinal Chordoma Patient Reported Outcome Survey (spCPROS): a patient-centered, disease-specific tool for assessing quality of life in spinal chordoma patients. *J Neurooncol.* 2025 Jul 29. ahead of print. PMID: 40728757.

OTHER PEER-REVIEWED PUBLICATIONS

1. Fourney DR, Fuller GN, **Gokaslan ZL**. Intraspinal extradural myxopapillary ependymoma of the sacrum arising from the filum terminale externa. Case report. *J Neurosurg.* 2000 Oct;93:322-6.
2. Marmor E, Rhines LD, Weinberg JS, **Gokaslan ZL**. Total en bloc lumbar spondylectomy. Case report. *J Neurosurg.* 2001 Oct;95:264-9.
3. Cohen ZR, Fourney DR, Marco RA, Rhines LD, **Gokaslan ZL**. Total cervical spondylectomy for primary osteogenic sarcoma. Case report and description of operative technique. *J Neurosurg.* 2002 Oct;97(3 Suppl):386-92. Review.
4. Fourney DR, Prabhu SS, Cohen ZR, **Gokaslan ZL**, Rhines LD. Early sacral stress fracture after reduction of spondylolisthesis and lumbosacral fixation: case report. *Neurosurgery.* 2002 Dec;51(6):1507-10; discussion 1510-1.
5. Fourney DR, Siadati A, Bruner JM, **Gokaslan ZL**, Rhines LD. Giant cell ependymoma of the spinal cord. Case report and review of the literature. *J Neurosurg.* 2004 Jan;100:75-9.
6. Cohen ZR, Fourney DR, **Gokaslan ZL**, Walsh GL, Rhines LD. Anterior stabilization of the upper thoracic spine via an "interaortocaval subinnominate window": case report and description of operative technique. *J Spinal Disord Tech.* 2004 Dec;17(6):543-8.
7. **Gokaslan ZL**, Selassie AK. A multidisciplinary approach to the spine. *Spine Journal.* 2004; 4 (5 SUPPL.), pp. 1S-2S.
8. Schmidt MH, Fourney DR, **Gokaslan ZL**. Metastatic spine disease. *Neurosurgery Clinics of North America.* 2004; 15 (4), pp. xv-xvi.
9. Rhines LD, Fourney DR, Siadati A, Suk I, **Gokaslan ZL**. En bloc resection of multilevel cervical chordoma with C-2 involvement. Case report and description of operative technique. *J Neurosurg Spine.* 2005 Feb;2(2):199-205.
10. Brastianos P, Pradilla G, McCarthy E, **Gokaslan ZL**. Solitary thoracic osteochondroma: case report and review of the literature. *Neurosurgery.* 2005 Jun;56(6):E1379; discussion E1379. Review.
11. Raza SM, Anderson WS, Eberhart CG, Wolinsky JP, **Gokaslan ZL**. The application of surgical corpectomy in the management of an intramedullary-extramedullary atypical meningioma: case report and literature review. *J Spinal Disord Tech.* 2005 Oct;18(5):449-54. Review.
12. Gallia GL, Burger PC, Suk I, Bagley CA, Wolinsky JP, Garonzik IM, **Gokaslan ZL**. Concomitant conus medullaris ependymoma and filum terminale lipoma: case report. *Neurosurgery.* 2006 Jun;58(6):E1214; discussion E1214.
13. Sciubba DM, Wolinsky JP, Than KD, **Gokaslan ZL**, Witham TF, Murphy KP. CT fluoroscopically guided percutaneous placement of transiliosacral rod for sacral insufficiency fracture: case report and technique. *AJNR Am J Neuroradiol.* 2007 Sep;28(8):1451-4.
14. Sciubba DM, Wolinsky JP, Than KD, **Gokaslan ZL**, Murphy KP. Computer Tomography (CT)-Guided Percutaneous Placement of Transiliosacral Rod for Sacral Insufficiency Fracture: Case Report and Operative Technique. American Society of Neuroradiology (ASNR) Meeting. Chicago, IL, June 9-14, 2007.
15. Chi JH, **Gokaslan ZL**, Ames CP. Preface. *Neurosurgery Clinics of North America.* 2008; 19 (1).
16. **Gokaslan ZL**, McGirt MJ. Kyphoplasty with intraspinal brachytherapy for metastatic spine tumors. *Journal of Neurosurgery:*

Spine. 2009; 10 (4), pp. 334-335.

17. Taghva A, Li KW, Liu JC, **Gokaslan ZL**, Hsieh PC. Minimally invasive circumferential spinal decompression and stabilization for symptomatic metastatic spine tumor: technical case report. *Neurosurgery*. 2010 Mar;66(3):E620-2.
18. Chaichana KL, Pradilla G, Witham TF, **Gokaslan ZL**, Bydon A. The clinical significance of pneumorachis: a case report and review of the literature. *J Trauma*. 2010 Mar;68(3):736-44. Review.
19. Xu R, Sciubba DM, **Gokaslan ZL**, Bydon A. Metastasis to the occipitocervical junction: A case report and review of the literature. *Surg Neurol Int*. 2010 May 31;1:16.
20. Bekelis K, Gottfried ON, Wolinsky JP, **Gokaslan ZL**, Omeis I. Severe dysphagia secondary to posterior C1-C3 instrumentation in a patient with atlantoaxial traumatic injury: a case report and review of the literature. *Dysphagia*. 2010 Jun;25(2):156-60. Review.
21. Xu R, Solakoglu C, Maleki Z, McGirt MJ, **Gokaslan ZL**, Bydon A. Hemorrhagic synovial cyst: the possible role of initial trauma and subsequent microtrauma in its pathogenesis: case report. *Neurosurgery*. 2011 Mar;68(3):E858-65; discussion E865. Review.
22. Hsu W, McCarthy E, **Gokaslan ZL**, Wolinsky JP. Clear-cell chondrosarcoma of the lumbar spine: case report and review of the literature. *Neurosurgery*. 2011 Apr;68(4):E1160-4; discussion 1164. Review.
23. 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: case report. *Neurosurgery*. 2011 Dec;69(2 Suppl Operative):onsE248-55; discussion onsE255-6.
24. Hsieh PC, **Gokaslan ZL**. Complications of spine surgery. *Neurosurgical focus*. 2011; 31 (4).
25. Baaj AA, **Gokaslan ZL**. Editorial: Spine metastasis. *J Neurosurg Spine*. 2012 Oct;17(4):269-70.
26. Zadnik PL, **Gokaslan ZL**, Burger P, Bettgowda C. The Genetics of Spinal Cord Tumors. Submitted *Nature Reviews Neurology*. December 2012.
27. Wolinsky JP, Gokaslan ZL. Editorial About "More than 10-year Follow-up after Total En Bloc Spondylectomy for Spinal Tumors" (doi: 10.1245/s10434-013-3333-7). *Ann Surg Oncol*. 2014 Feb 14.
28. Drazin D, **Gokaslan ZL**, Johnson JP. Introduction: Tumors of the spinal column. *Neurosurg Focus*. 2016 Aug;41(2):E1. doi: 10.3171/2016.6.FOCUS16220. PMID: 27476833
29. Fisher CG, Rhines LD, Bettgowda C, Gersmisch NM, Laufer I, Dea N, Bilsky MH, Verlaan JJ, Reynolds JJ, Sciubba DM, Williams R, Ailon T, Yamada YJ, Varga PP, Boriani S, **Gokaslan ZL**, Sahgal A. Introduction to Focus Issue II in Spine Oncology: Evidence-based Medicine Recommendations for Spine Oncology. *Spine (Phila Pa 1976)*. 2016 Oct 15;41 Suppl 20:S159-S162.
30. Desai B, Hobbs J, Hartung G, Xu G, **Gokaslan ZL**, Linninger A, Mehta AI. Image-guidance technology and the surgical resection of spinal column tumors. *J Neurooncol*. 2016 Nov 28. PMID: 27896519
31. Kumar A, Weber MH, **Gokaslan Z**, Wolinsky JP, Schmidt M, Rhines L, Fehlings MG, Laufer I, Sciubba DM, Clarke MJ, Sundaresan N, Verlaan JJ, Sahgal A, Chou D, Fisher CG. Metastatic Spinal Cord Compression and Steroid Treatment: A Systematic Review. *Clin Spine Surg*. 2017 May;30(4):156-163. doi: 10.1097/BSD.0000000000000528.
32. Derakhshan A, Lubelski D, Steinmetz MP, Corriveau M, Lee S, Pace JR, Smith GA, **Gokaslan Z**, Bydon M, Arnold PM, Fehlings MG, Riew KD, Mroz TE. Thoracic Duct Injury Following Cervical Spine Surgery: A Multicenter Retrospective Review. *Global Spine J*. 2017 Apr;7(1 Suppl):115S-119S. doi: 10.1177/2192568216688194. Epub 2017 Apr 1.
33. Thompson SE, Smith ZA, Hsu WK, Nassr A, Mroz TE, Fish DE, Wang JC, Fehlings MG, Tannoury CA, Tannoury T, Tortolani PJ, Traynelis VC, **Gokaslan Z**, Hilibrand AS, Isaacs RE, Mummaneni PV, Chou D, Qureshi SA, Cho SK, Baird EO, Sasso RC, Arnold PM, Buser Z, Bydon M, Clarke MJ, De Giacomo AF, Derakhshan A, Jobse B, Lord EL, Lubelski D, Massicotte EM, Steinmetz MP, Smith GA, Pace J, Corriveau M, Lee S, Cha PI, Chatterjee D, Gee EL, Mayer EN, McBride OJ, Roe AK, Yanez MY, Stroh DA, Than KD, Riew KD. C5 Palsy After Cervical Spine Surgery: A Multicenter Retrospective Review of 59 Cases. *Global Spine J*. 2017 Apr;7(1 Suppl):64S-70S. doi: 10.1177/2192568216688189. Epub 2017 Apr 1.
34. **Gokaslan ZL**. Introduction to Recent Advances in Neurosurgery. *RI Med J* (2013). 2017 Jun 1;100(6):16-17.
35. Telfeian AE, Oyelese AA, **Gokaslan ZL**. Rhode Island Hospital's Contribution to the Field of Endoscopic Spine Surgery. *R I Med J* (2013). 2017 Jun 1;100(6):34-38.
36. Konakondla S, **Gokaslan ZL**. Expert's Comment concerning Grand Rounds case entitled "Cryosurgery in the excision of a giant local recurrent sacral chordoma: a case report and literature review" by V. Pipola et al. *Eur Spine J*. 2018 Dec;27(12):3064-3065.
37. Shaaya E, Fridley J, Barber SM, Syed S, Xia J, Galgano M, Oyelese A, Telfeian A, **Gokaslan Z**. Posterior nerve-sparing multilevel cervical corpectomy and reconstruction for metastatic cervical spine tumors: case report and literature review. *World Neurosurg*. 2018 Nov 14. pii: S1878-8750(18)32557-9.
38. Barber SM, Fridley JS, **Gokaslan ZL**. Commentary: Development of Machine Learning Algorithms for Prediction of 30-Day Mortality After Surgery for Spinal Metastasis. *Neurosurgery*. 2018 Nov 27. doi: 10.1093/neuros/nyy495.

39. Konakondla S, **Gokaslan ZL**. Commentary: Factors Affecting Prognosis of 70 Patients with Osteblastoma in the Mobile Spine: A Long-Term Follow-Up Study of a Large Case Series in a Single Center. *Neurosurgery*. 2018 Dec 12. doi: 10.1093/neuros/nyy588.
40. Konakondla S, Albers JA, Li X, Barber SM, Nakhla J, Houghton CE, Telfeian AE, Oyelese AA, Fridley JS, **Gokaslan ZL**. Maximizing Sacral Chordoma Resection by Precise 3-Dimensional Tumor Modeling in the Operating Room Using Intraoperative Computed Tomography Registration with Preoperative Magnetic Resonance Imaging Fusion and Intraoperative Neuronavigation: A Case Series. *World Neurosurg*. 2019 Feb 18. pii: S1878-8750(19)30376-6. doi: 10.1016/j.wneu.2019.01.257.
41. Telfeian AE, Oyelese A, Fridley J, Doberstein C, **Gokaslan ZL**. Prognosis for Recovery of Foot Drop after Transforaminal Endoscopic Decompression of Far Lateral Lumbar 5-Sacral 1 Herniated Disc: Case Series. *Pain Physician*. 2019 Mar;22(2):E97-E103.
42. Telfeian AE, Doberstein C, Oyelese AA, Fridley J, Donahue JE, **Gokaslan Z**. A Transforaminal Endoscopic Approach for Treatment of a Lumbar Perineural Cyst: Technical Note. *World Neurosurg*. 2019 Apr 4. pii: S1878-8750(19)30741-7. doi: 10.1016/j.wneu.2019.02.237.
43. Charest-Morin R, Fisher CG, Sahgal A, Boriani S, **Gokaslan ZL**, Lazary A, Reynolds J, Bettgowda C, Rhines LD, Dea N. Primary Bone Tumor of the Spine-An Evolving Field: What a General Spine Surgeon Should Know. *Global Spine J*. 2019 May;9(1 Suppl):108S-116S.
44. Barzilai O, Boriani S, Fisher CG, Sahgal A, Verlaan JJ, **Gokaslan ZL**, Lazary A, Bettgowda C, Rhines LD, Laufer I. Essential Concepts for the Management of Metastatic Spine Disease: What the Surgeon Should Know and Practice. *Global Spine J*. 2019 May;9(1 Suppl):98S-107S.
45. Moldovan K, Konakondla S, Barber SM, Nakhla J, Fridley JS, Telfeian AE, **Gokaslan ZL**, Oyelese AA. Intraoperative Ct Navigation-Assisted Resection of Symptomatic Intramedullary Spinal Cord Cavernoma: A Technical Note and Case Report. *World Neurosurg*. 2019 Jun 20. pii: S1878-8750(19)31653-5.
46. Barber SM, Nakhla J, Konakondla S, Fridley JS, Oyelese AA, **Gokaslan ZL**, Telfeian AE. Outcomes of endoscopic discectomy compared with open microdiscectomy and tubular microdiscectomy for lumbar disc herniations: a meta-analysis. *J Neurosurg Spine*. 2019 Sep 6:1-14.
47. Barber SM, Konakondla S, Nakhla J, Fridley JS, Xia J, Oyelese AA, Telfeian AE, **Gokaslan ZL**. Spinal dural resection for oncological purposes: a systematic analysis of risks and outcomes in patients with malignant spinal tumors. *J Neurosurg Spine*. 2019 Oct 18:1-10.
48. Dea N, Versteeg AL, Sahgal A, Verlaan JJ, Charest-Morin R, Rhines LD, Sciubba DM, Schuster JM, Weber MH, Lazary A, Fehlings MG, Clarke MJ, Arnold PM, Boriani S, Bettgowda C, Laufer I, **Gokaslan ZL**, Fisher CG. Metastatic Spine Disease: Should Patients with Short Life Expectancy Be Denied Surgical Care? An International Retrospective Cohort Study. *Neurosurgery*. 2019 Nov 6.
49. Telfeian AE, Oyelese A, Fridley J, Moldovan K, **Gokaslan ZL**. Transforaminal Endoscopic Approach for Lumbar Extraforaminal Synovial Cysts: Technical Note. *World Neurosurg*. 2019 Nov 13.
50. Telfeian AE, Shen J, Ali R, Oyelese A, Fridley J, **Gokaslan ZL**. Incidence and Implications of Incidental Durotomy in Transforaminal Endoscopic Spine Surgery: Case Series. *World Neurosurg*. 2019 Nov 15. pii: S1878-8750(19)32881-5.
51. Barber SM, Konakondla S, Nakhla J, Fridley JS, Xia J, Oyelese AA, Telfeian AE, **Gokaslan ZL**. Oncologic benefits of dural resection in spinal meningiomas: a meta-analysis of Simpson grades and recurrence rates. *J Neurosurg Spine*. 2019 Nov 8:1-11.
52. Telfeian AE, Moldovan K, Shaaya E, Syed S, Oyelese A, Fridley J, **Gokaslan ZL**. Awake, Endoscopic Revision Surgery for Lumbar Pseudarthrosis After Transforaminal Lumbar Interbody Fusion: Technical Notes. *World Neurosurg*. 2020 Apr;136:117-121.
53. Dea N, Versteeg AL, Sahgal A, Verlaan JJ, Charest-Morin R, Rhines LD, Sciubba DM, Schuster JM, Weber MH, Lazary A, Fehlings MG, Clarke MJ, Arnold PM, Boriani S, Bettgowda C, Laufer I, **Gokaslan ZL**, Fisher CG. Metastatic Spine Disease: Should Patients with Short Life Expectancy Be Denied Surgical Care? An International Retrospective Cohort Study. *Neurosurgery*. 2020 Aug 1;87(2):303-311.
54. Liu DD, Camara-Quintana JQ, Leary OP, Syed S, Oyelese AA, Telfeian AE, **Gokaslan ZL**, Fridley JS, Niu T. Traumatic unilateral jumped facet joint in the upper thoracic spine: Case presentation and literature review. *Surg Neurol Int*. 2020 Apr 25;11:77.
55. Barrios-Anderson A, Liu DD, Snead J, Wu E, Lee DJ, Robbins J, Aguirre J, Tang O, Garcia CM, Pucci F, Anderson MN, Syed S, Shaaya E, **Gokaslan ZL**. The National Student Neurosurgical Research Conference: A Research Conference for Medical Students. *World Neurosurg*. 2020 Oct 29:S1878-8750(20)32300-7.
56. Sastry RA, Fridley J, Telfeian A, Gokaslan Z, Oyelese A. Image-guided resection of lumbar monostotic fibrous dysplasia: A case report and technical note. *Surg Neurol Int*. 2020 Oct 21;11:346.
57. Telfeian AE, Syed S, Oyelese A, Fridley J, **Gokaslan ZL**. Endoscopic Surgical Resection of the Retropulsed S1 Vertebral Endplate in L5-S1 Spondylolisthesis: Case Series. *Pain Physician*. 2020 Nov;23(6):E629-E636.

58. Syed S, Telfeian AE, Houle P, Wagner R, Oyelese A, Fridley J, **Gokaslan ZL**. Four Complications Associated with Lateral and Oblique Fusion Treatable with Endoscopic Spine Surgery: Technical Note and Case Series. *Pain Physician*. 2020 Nov;23(6):E665-E671.
59. Leary OP, Crozier J, Liu DD, Niu T, Pertsch NJ, Camara-Quintana JQ, Svokos KA, Syed S, Telfeian AE, Oyelese AA, Woo AS, **Gokaslan ZL**, Fridley JS. Three-Dimensional Printed Anatomic Modeling for Surgical Planning and Real-Time Operative Guidance in Complex Primary Spinal Column Tumors: Single-Center Experience and Case Series. *World Neurosurg*. 2021 Jan;145:e116-e126.
60. Telfeian AE, Oyelese A, Fridley J, **Gokaslan ZL**. Transforaminal Endoscopic Surgical Treatment for Posterior Migration of Polyetheretherketone Transforaminal Lumbar Interbody Fusion Cage: Case Series. *World Neurosurg*. 2021 Jan 5:S1878-8750(20)32647-4.
61. Konakondla S, Nakhla J, Xia J, Barber SM, Fridley JS, Oyelese AA, **Gokaslan ZL**, Rainov NG, Haritonov DG, Wagner R, Telfeian AE. A Novel Endoscopic Technique for Biopsy and Tissue Diagnosis for a Paraspinal Thoracic Tumor in a Pediatric Patient: A Case Report. *Int J Spine Surg*. 2021 Feb;14(s4):S66-S70.
62. Akinduro OO, Garcia DP, Domingo RA, Vivas-Buitrago T, Sousa-Pinto B, Bydon M, Clarke MJ, **Gokaslan ZL**, Kalani MA, Abode-Iyamah K, Quiñones-Hinojosa A. Cervical chordomas: multicenter case series and meta-analysis. *J Neurooncol*. 2021 May;153(1):65-77.
63. Telfeian AE, Oyelese A, Fridley J, Camara-Quintana JQ, Niu T, **Gokaslan ZL**. Transforaminal Endoscopic Surgical Treatment for Postlaminectomy Lumbar Radiculopathy: Case Series. *World Neurosurg*. 2021 Jun;150:e577-e584.
64. Zuckerman SL, Lee SH, Chang GJ, Walsh GL, Mehran RJ, **Gokaslan ZL**, Rao G, Tatsui CE, Rhines LD. Outcomes of Surgery for Sacral Chordoma and Impact of Complications: A Report of 50 Consecutive Patients With Long-Term Follow-Up. *Global Spine J*. 2021 Jun;11(5):740-750.
65. Yang W, Rincon-Torroella J, Feghali J, Khalafallah AM, Ishida W, Perdomo-Pantoja A, Quiñones-Hinojosa A, Lim M, Gallia GL, Riggins GJ, Anderson WS, Lo SL, Rigamonti D, Tamargo RJ, Witham TF, Bydon A, Cohen AR, Jallo GI, Latremoliere A, Luciano MG, Mukherjee D, Olivi A, Qu L, **Gokaslan ZL**, Sciubba DM, Tyler B, Brem H, Huang J. Impact of international research fellows in neurosurgery: results from a single academic center. *J Neurosurg*. 2021 Jul 23:1-11.
66. Telfeian AE, Sastry R, Oyelese A, Fridley J, Camara-Quintana JQ, Niu T, Sampath P, Lewandrowski KU, Mueller K, **Gokaslan ZL**. Awake, Transforaminal Endoscopic Lumbar Spine Surgery in Octogenarians: Case Series. *Pain Physician*. 2022 Mar;25(2):E255-E262.
67. Hagan MJ, Syed S, Leary OP, Persad-Paisley EM, Lin Y, Zheng B, Shao B, Abdulrazeq H, Yu JYH, Telfeian AE, **Gokaslan ZL**, Fridley JS, Oyelese AA. Pedicle Screw Placement Using Intraoperative Computed Tomography and Computer-Aided Spinal Navigation Improves Screw Accuracy and Avoids Postoperative Revisions: Single-Center Analysis of 1400 Pedicle Screws. *World Neurosurg*. 2022 Apr;160:e169-e179. doi: 10.1016/j.wneu.2021.12.112.
68. Telfeian AE, Bajaj A, Sastry R, Ali R, Oyelese A, Fridley J, Camara-Quintana JQ, Niu T, Lewandrowski KU, **Gokaslan ZL**. Foraminal Access Strategies in Patients with Lumbar Posterolateral Fusions in Transforaminal Endoscopic Spine Surgery: Case Series and Technical Note. *Pain Physician*. 2022 May;25(3):E449-E455.
69. MacLean MA, Touchette CJ, Georgiopoulos M, Brunette-Clément T, Abduljabbar FH, Ames CP, Bettgowda C, Charest-Morin R, Dea N, Fehlings MG, **Gokaslan ZL**, Goodwin CR, Laufer I, Netzer C, Rhines LD, Sahgal A, Shin JH, Sciubba DM, Stephens BF, Fournier DR, Weber MH; AO Spine Knowledge Forum Tumor. Systemic considerations for the surgical treatment of spinal metastatic disease: a scoping literature review. *Lancet Oncol*. 2022 Jul;23(7):e321-e333.
70. Telfeian AE, Sastry R, Ali R, Oyelese A, Fridley J, Camara-Quintana JQ, Niu T, Lewandrowski KU, **Gokaslan ZL**. Awake, Transforaminal Endoscopic Lumbar Decompression Surgery to Treat L5-S1 Adjacent Segment Disease: A Case Series. *Pain Physician*. 2022 Jul;25(4):E649-E656.

BOOKS AND BOOK CHAPTERS

BOOKS

1. Arnautović KI and **Gokaslan ZL** (eds): *Spinal Cord Tumors*, Springer Nature Switzerland, 2019.
2. **Gokaslan, ZL** and Riley, LH(eds): *The Back Book*. The Johns Hopkins University Press, Baltimore, 2008.
3. **Gokaslan ZL**, Fischer CG, Boriani S (eds) *AO Spine Masters Series, Volume 1: Metastatic Spinal Tumors*, Thieme Medical Publishers, Inc., New York, 2015.
4. **Gokaslan ZL**, Fischer CG, Boriani S (eds) *AO Spine Masters Series, Volume 21: Primary Spinal Tumors*, Thieme Medical Publishers, Inc., New York, 2015.
5. Dickman C, Fehlings MG, **Gokaslan ZL** (eds): *Principals and Practice: Spinal Cord and Spinal Column Tumors*. Thieme Medical Publishers, New York, 2006.

BOOK CHAPTERS

1. Narayan RK, **Gokaslan ZL**, Bontke CF: Delayed neurological sequelae of head injury. In Griffith ER, et al. (eds):

Rehabilitation of the Adult and Child with Head Trauma. 2nd Edition. Davis Company.

2. **Gokaslan ZL**, Narayan RK: Intracranial hemorrhage. In Drayer B, Hayman LA, Taber KH, (eds): The Hypertensive Patient. Neuroimaging Clinics of North America, W. B. Saunders Company, Philadelphia, 1992, pp 171-186.
3. **Gokaslan ZL**, Sawaya R: Brain Tumors: anatomic considerations. In Morantz RA, Walsh JW (eds): Brain Tumors: A comprehensive Text. Marcel Dekker, Inc., New York, NY, 1994, pp 135-171.
4. **Gokaslan ZL**, McCormick P: Surgical techniques: thoracic and lumbar. In Benzel EC, Tator CH (eds): Contemporary Management of Spinal Cord Injury. AANS Publication Committee, Park Ridge, IL: 1995, 1: pp 153-165.
5. **Gokaslan ZL**, Cooper PR: The cervical spine. Ventral and anterolateral subaxial decompression: surgical technique, avoidance of complications and management. In Youmans JR (ed): Neurological Surgery. W. B. Saunders Company, New York, NY, 1995, IV:pp 2253-2261.
6. **Gokaslan ZL**, Grossman RG, Hamilton WJ: Trauma of the Nervous System. In Bone RC (ed): Current Practice of Medicine, Neurology Section, Philadelphia, PA, 1996, IX:pp 12.1-12.9.
7. Moelleken A, **Gokaslan ZL**, Cooper PR: Iatrogenic Deformities of the Spine. In Tindall GT, Cooper PR, Barrow DL (eds): The Practice of Neurosurgery, Williams & Wilkins, Baltimore, MD, 1996, 3:pp 2594-2607.
8. **Gokaslan ZL**, Romsdahl NM, Kroll SS, Gillis TA, Wildrick DM, Leavens ME: Total Sacrectomy. In Rengachari SS (ed): Neurosurgical Operative Color Atlas, AANS Publication, Lebanon, NH, 1998, 7:pp 11-20.
9. York JE, **Gokaslan ZL**: Instrumentation of the spine in metastatic disease. In Errico TJ (ed): Spine: State of the Art Reviews, Hanley & Belfus, Inc., Philadelphia, PA, 1999. pp 335-350.
10. York JE, Wildrick DM, **Gokaslan ZL**. Metastatic tumors of the thoracic spine. In Benzel EC, Stillerman BC (eds): The Thoracic Spine, Quality Medical Publishing, Inc., St. Louis, MO, 1999, pp 392-411.
11. **Gokaslan ZL**, Cooper PR: Ventral and ventrolateral subaxial decompression. In Benzel EC, (ed): Spine Surgery. Techniques, Complication Avoidance, and Management. Churchill Livingstone, Philadelphia, PA, 1999, I pp 219-227.
12. **Gokaslan ZL**, Walsh GL: "Trap Door" exposure of the cervicothoracic junction. In Rengachari SS (ed): Neurosurgical Operative Color Atlas 1999, AANS Publications, Lebanon, NH, 1999, VIII:pp 253-260.
13. York JE, **Gokaslan ZL**, Grossman RG: Trauma of the nervous system. In Bone RC (ed): Current Practice of Medicine, 2nd Edition, Neurology Section, Philadelphia, PA 1999.
14. **Gokaslan ZL**, McCormick P: Surgical Techniques: Thoracic and Lumbar. In Benzel EC, Tator CH (eds): Contemporary Management of Spinal Cord Injury, 2nd Edition AANS Publication Committee, Park Ridge, IL: 2000, pp 173-188.
15. Fourny DR, **Gokaslan ZL**: Spinal Epidural Tumors. In Rengachary SS, Maciunas RJ, Wilkins RH (ed): Neurosurgery, 3rd Edition The McGraw-Hill Companies, Philadelphia, PA, 2001.
16. Hanbali F, **Gokaslan ZL**: Prevention and Management of Complications. In Perez-Cruet MJ, Fessler RG (ed): Outpatient Spinal Surgery, Quality Medical Publishing, Inc. St. Louis, MO, 2002.
17. Jackson RJ, **Gokaslan ZL**: Treatment of disc and ligamentous diseases of the cervical spine. In Youmans JR (ed): Neurological Surgery W.B. Saunders Company, New York, NY, 2003.
18. Weinberg JS, Lenzi R, **Gokaslan ZL**: Brain Metastasis from Upper Gastrointestinal Tract Cancers: Esophageal, Gastric, Hepatic, Gallbladder, and Pancreatic" In Sawaya R (ed): Intracranial Metastases: Current Strategies, Futura Publishing Co., Inc., 2003.
19. York JE, **Gokaslan ZL**: Neoplastic Conditions" In Hurlbert RJ (ed): Seminars in Neurosurgery Craniocervical Junction, 2003.
20. Fourny DR, **Gokaslan ZL**: Spinopelvic Fixation. In Zileli M, Ozer AF: Spine and Spinal Cord Surgery, META Basim, Izmir, Turkey, 2003, 2:pp 1673-1685.
21. Schmidt MH, Fourny DR, **Gokaslan ZL**: Metastatic spine disease. Philadelphia: Saunders, 2004.
22. Hanbali F, **Gokaslan ZL**, Cooper P: Ventral and Centrolateral Subaxial Decompression. In Volume One: Spine Surgery, Elsevier, Inc., p. 341-350, 2005.
23. Lastra-Power J, **Gokaslan ZL**, Sosa I: Primary Bony Spiral Lesion: Surgery for Cure. In Volume One: Spine Surgery, Elsevier, Inc., p. 1015-1024, 2005.
24. **Gokaslan ZL**, Tihan T: Pleomorphic Xanthoastrocytoma. In Berger MS, Prados MD: Textbook of Neuro-Oncology, Elsevier, Inc., p. 156-159, 2005.
25. Chou D, **Gokaslan ZL**: Malignant Primary Tumors of the Vertebral Column: In Berger MS, Prados MD: Textbook of Neuro-Oncology, Elsevier, Inc., p. 517-520, 2005.
26. Bohinski RJ, Rhines LD, **Gokaslan ZL**: Perioperative Care for Neurosurgical Neoplasms-2: Spinal Surgery. In Shaw A, Riedel B, Burton A, Fields A, Feeley T (eds): The Acute Care of the Cancer Patient, Marcel Dekker, 2005, in press.
27. Bagley C, **Gokaslan ZL**: Epidural Tumors and Metastases. In Tonn J, Westphal M, Grossman SA, Rutka JT (eds): Neuro-Oncology of CNS Tumors, Springer Verlag, Berlin 2006.
28. Fourny DR, **Gokaslan ZL**: Sacral Tumors: Primary and Metastatic. In Dickman CA, Fehlings MG, Gokaslan ZL (eds): Spinal Cord and Spinal Column Tumors: Principles and Practice, Thieme Medical Publishers, Inc., New York (In Press).

29. Fourney DR, **Gokaslan ZL**: Lumbosacral and Pelvic Reconstruction. In Dickman CA, Fehlings MG, Gokaslan ZL (eds): Spinal Cord and Spinal Column Tumors: Principles and Practice, Thieme Medical Publishers, Inc., New York (In Press).
30. Resection of Sacral Tumors. In Dickman CA, Fehlings MG, **Gokaslan ZL** (eds): Spinal Cord and Spinal Column Tumors: Principles and Practice, Thieme Medical Publishers, Inc., New York, 2006.
31. Fourney DR, Schomer DF, **Gokaslan ZL**: Percutaneous vertebroplasty and kyphoplasty. In Dickman CA, Fehlings MG, Gokaslan ZL (eds): Spinal Cord and Spinal Column Tumors: Principles and Practice, Thieme Medical Publishers, Inc., New York (In Press).
32. Combined Vertebrectomy and Chest Wall Resection for the Pancoast Tumor. In Dickman CA, Fehlings MG, **Gokaslan ZL** (eds): Spinal Cord and Spinal Column Tumors: Principles and Practice, Thieme Medical Publishers, Inc., New York (In Press).
33. Fourney DR, **Gokaslan ZL**: Tumors of the Lumbar and Lumbosacral Spine. In Fessler R, Sekhar L (eds): Atlas of Neurosurgical Techniques, Thieme Medical Publishers, Inc., New York 2006.
34. Fourney DR, **Gokaslan ZL**: Sacral Resection and Stabilization. In Schmidek and Sweet's Operative Neurosurgical Operative Atlas, 2nd Ed, AANS Publications (In press).
35. **Gokaslan ZL**, Bagley CA, Garrett LW: "Trap Door" Exposure of the Cervicothoracic Junction. In Neurosurgical Operative Atlas, 2nd Ed, AANS Publications (Submitted).
36. Bagley CA, **Gokaslan ZL**: Neoplasia. In Surgical Management of Spinal Deformities, Errico, Baron, Lonner and Moulton (Submitted).
37. Bagley CA, **Gokaslan ZL**: 2 Tumors – 2.2 Primary Spinal Tumors. In AOSpine Manual – Clinic Applications (In Press).
38. Fourney DR, **Gokaslan ZL**: Complex Lumbosacral Resection and Reconstruction Procedure. In Cancer in the Spine, Comprehensive Care, Humana Press, Totowa, New Jersey 2006.
39. Fourney DR, **Gokaslan ZL**: Sacral Resection and Stabilization. In Schmidek and Sweet's Operative Neurosurgical Techniques, Indications, Methods, and Results, Volume 2, 5th Ed, Elsevier, Inc. 2006.
40. Chi JH, **Gokaslan ZL**, Ames CP: Primary Vertebral Tumors. Neurosurgery Clinics of North America. New York: Elsevier, 2008.
41. Chi JC, Bydon A, Hsieh P, Witham TF, Wolinsky JP, **Gokaslan ZL**: Epidemiology and Demographics for Primary Vertebral Tumors. In Neurosurgery Clinics of North America. New York: Elsevier, 2008.
42. Sciubba DM, Chi JH, Rhines LD, **Gokaslan ZL**: Chordoma of the Spinal Column. In Neurosurgery Clinics of North America. New York: Elsevier, 2008.
43. Chi JH, Sciubba DM, Rhines LD, **Gokaslan ZL**: Surgery for primary vertebral tumors: En bloc versus intralesional resection. In Neurosurgery Clinics of North America. New York: Elsevier, 2008.
44. Dekutoski, MB, Cassivi S, **Gokaslan ZL**: Thoracic Spine. In Relevant Surgical Exposures. Philadelphia: Wolters Kluwer, 2008.
45. Sciubba D, **Gokaslan ZL**: Tumors of the Spine: Dainel H. Kim, Ung-Kyu Chang, Se-Hoon Kim and Mark H. Bilsky. Philadelphia: Elsevier Saunders, 2008.
46. Wolinsky JP, **Gokaslan ZL**: Total and subtotal sacrectomy for en bloc resections of primary tumors of the sacrum. In Atlas of Advanced Operative Surgery. Philadelphia, PA, 2013.
47. **Gokaslan ZL**: Neurosurgical Management of Spinal Disorders. In Atlas of Advanced Operative Surgery. Philadelphia, PA, 2013.
48. Bydon M, Papadimitriou K, **Gokaslan ZL**, Bydon A. Hemangioblastoma. Video Atlas of Spine Surgical Techniques. 2013.
49. Macki M, Bydon M, Wolinsky JP, **Gokaslan ZL**. Sacral Tumors. Video Atlas of Spine Surgical Techniques. 2013.
50. Sciubba DM, Zadnik PL, Wasserman BA, Gokaslan ZL. Tumors of the spine. In: Khanna AJ (ed). MRI Essentials for the Spine Specialist. New York: Thieme, 2014:211-236.
51. Rhee J, Kosztowski T, Bydon M, Gokaslan Z. Sacral Tumor: Regional Challenges, 2015.
52. Bydon M, De la Garza-Ramos R, Sciubba D, **Gokaslan ZL**. Cervical Myelopathy in the Setting of Metastatic Tumors in the Spine. In Passias P (ed): Cervical Myelopathy, New York: Jaypee Brothers Medical Publishers, p. 213-220, 2016.
53. Bydon M, Papadimitriou K, **Gokaslan Z**, Bydon A. Spinal Hemangioblastoma Resection. Video Atlas of Spine Surgical Techniques. 2016.
54. Macki M, Bydon M, Wolinsky JP, **Gokaslan Z**. Sacral Tumors Resection. Video Atlas of Spine Surgical Techniques. 2016.
55. Hanbali F, **Gokaslan ZL**, Cooper PR. Ventral and Ventrolateral Subaxial Decompression. In Steinmetz M, Benzel E (ed): Benzel's Spine Surgery: Techniques, Complication Avoidance, and Management. 4th Edition, Volume 1. Philadelphia: Elsevier, 2017.
56. Wolinsky JP, Kosztowski T, Bydon M, **Gokaslan ZL**. Spondylectomy for Spinal Tumors. In Steinmetz M, Benzel E (ed): Benzel's Spine Surgery: Techniques, Complication Avoidance, and Management. 4th Edition, Volume 2. Philadelphia: Elsevier, 2017.

57. De La Garza-Ramos R, Bydon M, Suk I, Wolinsky J, **Gokaslan ZL**. "Surgical Management of Chordomas and Chondrosarcomas of the Lumbar Spine." In Chordomas and Chondrosarcomas of the Skull Base and Spine. Second Edition, Elsevier, 2018: 309-313.
58. Galgano MA, Soliman H, Fridley J, **Gokaslan ZL**. "Complications of Surgery for Vertebral Body Tumors." In Complications in Neurosurgery. Anil Nanda. First Edition, Elsevier, 2018: 342-350.
59. Fridley JF, Oyelese A, **Gokaslan Z**. "Primary Osseous and Metastatic Neoplasms of the CVJ." In Surgery of the Cranio-Vertebral Junction. First Edition, Springer, 2020: 353-365.
60. Syed S, Fridley JF, Anderson MN, Kosztowski T, Oyelese AA, **Gokaslan ZL**. "Malignancies of the Spinal Cord." In Myelopathy: A Guide to Diagnosis and Treatment. Benjamin Greenberg, Ed. First Edition, Springer, 2022: 189-201.

OTHER NON-PEER REVIEWED PUBLICATIONS

1. **Gokaslan ZL**: Spine surgery for cancer. Curr Opin Oncol 8:178-181, 1996.
2. Fourny DR, **Gokaslan, ZL**: Column installment dialogue/ commentary on "Conflicts of Interest: Legal Perspectives for Scientific Research and Patient Care" by Benton, PG and Benzel, EC. NASS, SpineLine, September/October, 35-38, 2000.
3. **Gokaslan ZL**: Bedside Manner. OncoLog 46,11/12:8, 2001 (DiaLog)
4. Fourny DR, Kelly M, **Gokaslan ZL**: Prevention and Management of Medical Problems in Spinal Cord Injury. Seminars in Spine Surgery
5. York JE, **Gokaslan ZL**: Craniocervical Junction Neoplastic Conditions. Thieme (Published).
6. 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.
7. Wolinsky JP, **Gokaslan ZL**. Editorial About "More than 10-year Follow-up after Total En Bloc Spondylectomy for Spinal Tumors" (doi: 10.1245/s10434-013-3333-7). Ann Surg Oncol. 2014 Feb 14.
8. Baron R, Ferriero DM, Frisoni GB, Bettgowda C, **Gokaslan ZL**, Kessler JA, Vezzani A, Waxman SG, Jarius S, Wildemann B, Weller M. Neurology-the next 10 years. Nat Rev Neurol. 2015 Nov;11(11):658-64. doi: 10.1038/nrneurol.2015.196. Epub 2015 Oct 27. Review. PMID: 26503922

ABSTRACTS

1. **Gokaslan ZL**. Surgical management of metastatic tumors of the thoracic and lumbar spine. Canadian Congress of Neurological Sciences, Victoria, BC, June 1995.
2. Romsdahl MM, Leavens ME, **Gokaslan ZL**. Surgical approaches to tumors involving the sacrum and iliac bone and adjacent structures. American College of Surgeons, Chicago, IL October 1995.
3. **Gokaslan ZL**, McCutcheon IE, Walsh GL. Anterior thoracic/lumbar reconstruction and instrumentation using Synthes thoracolumbar locking plate/screws in cancer patients. CNS, San Francisco, CA October 1995 (Program Book p 259).
4. **Gokaslan ZL**, McCutcheon EI, Schomer DF, Sawaya R. Magnetic resonance image quality in the presence of titanium spinal implants in cancer patients. CNS, San Francisco, CA, October 1995 (Program Book p 262).
5. Berk H, **Gokaslan ZL**. Chondrosarcoma of the spine: 50 years experience at a major cancer center. CNS, San Francisco, CA, October 1995 (Program Book p 223).
6. Chintala SK, **Gokaslan ZL**, Sawaya R, Rao JS. Role of extracellular matrix proteins in regulation of human glioma cell invasion *in vitro*. American Association for Cancer Research, Washington, DC, April 1996.
7. Yamamoto Y, Sawaya R, Mohanam S, **Gokaslan ZL**, Rao JS. Expression of membrane type matrix metalloproteinase and gelatinase A activation in human malignant glial tumors. American Association for Cancer Research, Washington, DC, April 1996.
8. Schoppa DM, **Gokaslan ZL**, Hess KR, Sawaya R. Thyroid carcinoma metastatic to the spine: a 50-year experience at a major cancer center. American Association of Neurological Surgeons (AANS), Minneapolis, MN, April 1996 (Program Book p157).
9. **Gokaslan ZL**, Gentry JB, Hess KR, Ginsberg LE. Primary Ewing's sarcoma of the spine. 35 years of experience at M. D. Anderson Cancer Center. AANS, Minneapolis, April 1996 (Program Book p 171).
10. Razack N, **Gokaslan ZL**, Hess KR, Sawaya R. Neurosurgical management of unknown primary tumors metastatic to the spine. AANS, Minneapolis, MN, April 1996 (Program Book p 147).
11. Rao JS, Mohanam S, Kumar C, Sawaya R, **Gokaslan ZL**. Effects of antisense inhibition of uPAR on in vitro invasion of human glioblastoma cells. AANS, Minneapolis, MN, April 1996 (Program Book p 316).
12. Aladag, MA, **Gokaslan ZL**, Hess KR, Sawaya R. Malignant melanoma metastatic to the spine: A 10-year experience at a major cancer center. AANS, Minneapolis, MN, April 1996 (Program Book p 156).

13. **Gokaslan ZL**, Romsdahl MM, Kroll SS, Leavens ME, Gillis TA. Total resection of the sacrum for malignant neoplasms. Congress of Neurological Surgeons (CNS), Montreal, Canada, September 1996 (Program Book p 335).
14. **Gokaslan ZL**, McCutcheon IE, Lang FF, Sawaya R. Cervical thoracic stabilization and fusion in cancer patients. CNS, Montreal, Canada, September 1996 (Program Book p 321).
15. Berk H, **Gokaslan ZL**. Chondrosarcoma of the spine: 50 years experience at a major cancer center. North American Spine Society (NASS), Vancouver, B. D., Canada, October 1996.
16. **Gokaslan ZL**, McCutcheon EI, Schomer DF, Sawaya R. Magnetic resonance image quality in the presence of titanium spinal implants in cancer patients. NASS, Vancouver, B. D., Canada, October 1996.
17. Sawaya R, Chintala SK, **Gokaslan ZL**, Rao JS. Modulation of matrix metalloprotease-2 and invasion in human glioma cells by a 31 Integrin. Society for Neuro-Oncology, Santa Fe, NM November 1996.
18. Chintala, SK, Sawaya R, **Gokaslan ZL**, Rao JS. The effect of type III collagen on migration and invasion of human glioblastoma cell lines in vitro. Society for Neuro-Oncology, Santa Fe, NM, November 1996.
19. **Gokaslan ZL**, McCutcheon IE, Lang FF, Sawaya R. Cervical thoracic stabilization and fusion in cancer patients. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Newport Beach, CA, February, 1997 (Program Book P 140).
20. Venhakah B, Chintala SK, Sawaya R, Tofilon PJ, **Gokaslan ZL**, Rao JS. Role of protein kinases in regulation of proteolytic enzymes in human glioma cell lines. American Association for Cancer Research, San Diego, CA, April 1997.
21. Mohanam S, Sawaya R, **Gokaslan ZL**, Rao JS. Increased invasion of neuroglioma cells transfected with urokinase plasminogen activator receptor cDNA. American Association for Cancer Research, San Diego, CA, April 1997.
22. Chintala SK, Mohanam S, Sawaya R, **Gokaslan ZL**, Rao JS. Downregulation of urokinase receptor by antisense transfection modulates human glioma cell adhesion and spreading in vitro. American Association for Cancer Research, San Diego, CA, April 1997.
23. **Gokaslan ZL**, McCutcheon IE, Walsh GL, Putnam JB, Nesbitt JC. Transthoracic vertebrectomy in cancer patients. NASS, New York, NY, October 1997 (Proceedings p 183).
24. **Gokaslan ZL**, Kaczaraj A, York JE. Sacral chordoma: 40-year experience at a major cancer center. AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves, Rancho Mirage, CA, February 1998.
25. **Gokaslan ZL**, Stringer JD. Gastric Cancer and Brain Metastases. AANS, Philadelphia, PA, April 1998 (Poster Program Book p 282).
26. York JE, **Gokaslan ZL**, Cooper PR, Errico TJ. Spinal reconstruction and stabilization in cancer patients using methylmethacrylate. NASS, San Francisco, CA, October 1998 (Proceedings pp 95-96).
27. York JE, Walsh GL, **Gokaslan ZL**. Combined chest wall resection with vertebrectomy and spinal reconstruction for the treatment of Pancoast tumors. Section on Disorders of the Spine and Peripheral Nerves (AANS/CNS), Lake Buena Vista, FL, February 1999 (Program Book pp 91-99).
28. York JE, Rao JS, **Gokaslan ZL**. Expression and role of matrix metalloproteases and urokinase-type plasminogen activator in spinal column tumors. AANS, New Orleans, LA, April 1999. (Poster Program Book p134).
29. Jackson R, **Gokaslan ZL**. Occipital-cervical-thoracic fixation for spinal instability in neoplastic conditions. AANS, 67th Annual Meeting, New Orleans, LA, April 1999. (Poster Program Book p136).
30. Miller D, **Gokaslan ZL**. Coaxial double lumen methylmethacrylate reconstruction of cervical spine following tumor resection. AANS, New Orleans, LA, April 1999. (Poster Program Book p162).
31. Hao L, **Gokaslan ZL**. Occipital-cervical fixation for the treatment of atlanto-axial instability from metastatic disease. NASS, Chicago, IL, October 1999. (Proceedings pp267-268).
32. York JE, **Gokaslan ZL**. Vertebral body reconstruction with methylmethacrylate in cancer patients: Long-term follow-up. CNS, Boston, MA, October/November 1999 (Scientific Program Book p 235).
33. Jackson RJ, **Gokaslan ZL**: Spinal-pelvic fixation in patients with lumbosacral neoplasms. CNS, Boston, MA, October/November 1999 (Scientific Program Book p 376).
34. **Gokaslan ZL**, York JE, Hao L. Occipital-cervical fixation for the treatment of metastatic disease involving the upper cervical spine. CNS, Boston, MA, October/November 1999 (Scientific Program Book p 382).
35. Jackson RJ, Shi WM, Abi-Said D, **Gokaslan ZL**, Sawaya R. Is stereotactic biopsy necessary in the initial management of gliomas? CNS, Boston, MA, October/November 1999 (Scientific Program Book pp 641-642).
36. Michael C, McCutcheon IE, **Gokaslan ZL**, DeMonte F, Sawaya, R, Lang FF. Resection of calvarial metastases overlying dural sinuses. CNS, Boston, MA, October/November 1999 (Scientific Program Book p 667).
37. **Gokaslan ZL**, York JE, Miller DN. Reconstruction of the cervical and upper thoracic spine following corpectomy using coaxial methylmethacrylate technique and anterior plate stabilization. Cervical Spine Research Society, Seattle, WA, December 1999 (Program Book p 266).
38. **Gokaslan ZL**, Jackson RJ. Surgical treatment renal cell carcinoma of the spine. Poster presentation at the Annual American Association of Neurological Surgeons meeting, San Francisco, CA, April 9-13, 2000 (Poster Program Book p. 93).

39. Fourney DR, Abi-Said D, Walsh GL, Lang FF, McCutcheon IE, **Gokaslan ZL**. Pedicle screw fixation in the management of malignant spinal disease: Experience in 100 consecutive procedures. Abstract. Congress of Neurological Surgeons Annual meeting, San Antonio, Texas, September 2000.
40. Fourney DR, Abi-Said D, Walsh GL, Lang FF, McCutcheon IE, **Gokaslan ZL**. Simultaneous anterior-posterior approach to the thoracic and lumbar spine for the radical resection of tumors, reconstruction, and stabilization. Abstract. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, Arizona, February 2001.
41. Fourney DR, Abi-Said D, Lang FF, McCutcheon IE, **Gokaslan ZL**. Simultaneous anterior-posterior approach to the thoracic and lumbar spine for the radical resection of tumors, reconstruction, and stabilization. Abstract. Annual American Association of Neurological Surgeons meeting, Toronto, Ontario, April 2001.
42. Cohen ZR, Suki D, Shi W, DeMonte F, McCutcheon IE, Hassenbusch SJ, **Gokaslan ZL**, Rhines LD, Weinberg JS, Sawaya R, Lang FF. "Surgical Resection of Anaplastic Astrocytoma: Prognostic Factors and Outcome" Oral presentation presented at the 2002 AANS/CNS Annual Meeting, Chicago, IL, April 6-11, 2002.
43. Prabhu SS, Weinberg J, Ferson D, Lang FF, McCutcheon IE, Rhines LD, Hassenbusch SJ, **Gokaslan ZL**, DeMonte F, Sawaya R. Awake Craniotomy for Parenchymal Brain Tumors, Patient Selection, Technique and Outcome. Oral presentation presented at the 2002 AANS/CNS Section on Tumors Fifth Biennial Brain Tumor Satellite Symposium, Chicago, IL, April 12, 2002.
44. Fourney DR, Schomer DF, Nader R, Fourney-Chlan J, Suk I, Ahrar K, Rhines LD, **Gokaslan ZL**. Percutaneous Vertebroplasty and Kyphoplasty for Painful Vertebral Body Fractures in Cancer Patients. CNS Annual Meeting, Philadelphia, PA, 2002.
45. Shehadi JA, McCutcheon I, Maldaun M, Suki D, Bonnen M, Symmans F, Rhines LD, **Gokaslan ZL**. Surgical Treatment and Outcome in Patients with Metastatic Breast Cancer to the Spine: A review of 87 patients, CNS Annual Meeting, Philadelphia, PA, 2002.
46. Wang M, Weber D, Burton A, Schomer DF, Ahrar K, **Gokaslan ZL**. Value of Vertebroplasty and Kyphoplasty for Painful Vertebral Compression Fractures in Multiple Myeloma (MM), 2002.
47. **Gokaslan ZL**, Rhines LD. Lung Metastasis to the Spine. Abstract presented at NASS Spine Across the Sea Symposium, Maui, HI, July 29-31, 2003.
48. Nader R, Dastgir A, Haynes N, **Gokaslan ZL**, Rhines LD. Surgical Outcome in Patients with Hematogenous Lung Cancer Metastatic to the Spine: A Series of 37 Patients. North American Spine Society. Maui, HI. July 3, 2004.
49. Nader R, Dastgir A, Suki D, Bohinski R, Mendel E, **Gokaslan ZL**, Rhines LD. Surgical Resection of Sacral Metastases: A Series of 19 Patients. Southern Neurosurgical Society. Amelia Island, FL. March 23, 2004.
50. Nader R, Dastgir A, Haynes N, **Gokaslan ZL**, Rhines LD. Surgical Outcome in Lung Cancer Patients with Hematogenous Metastases to the Spine: A Series of 53 Patients. Southern Neurosurgical Society. Amelia Island, FL. March 27, 2004.
51. Nader R, Dastgir A, Suki D, Bohinski R, Mendel E, **Gokaslan ZL**, Rhines LD. Surgical Resection of Sacral Metastases: A Series of 19 Patients. American Association of Neurological Surgeons. Orlando, FL. May 1, 2004.
52. Nader R, Dastgir A, Haynes N, **Gokaslan ZL**, Rhines LD. Surgical Outcome in Lung Cancer Patients with Hematogenous Metastases to the Spine: A Series of 53 Patients. American Association of Neurological Surgeons. Orlando, FL. May 3, 2004.
53. Gallia G, Haque R, Garonzik I, Wolinsky JP, Suk I, **Gokaslan ZL**. Spinal Pelvic Reconstruction After Total En Bloc Sacrectomy for a Giant Sacral Chordoma. 73rd AANS Meeting, New Orleans, LA.
54. Sciubba DM, Conway J, Kretzer RM, Pindrik J, Long, DM, **Gokaslan ZL**, Garonzik IM. Ipsilateral screw fixation of the axis. CNS Meeting, Chicago, IL. October 2006
55. McGirt MJ, Woodworth G, Chaichana K, **Gokaslan ZL**, Jallo GI. Predictors of neurological outcome and progressive spinal deformity after resection of intramedullary spinal cord tumors in 80 consecutive patients. Annual Meeting of the Southern Society of Neurological Surgeons, March, 2007.
56. Sciubba DM, Lin LM, **Gokaslan ZL**, Kebaish KM. Neuromodulation Induced Scoliosis. 23rd Annual Meeting of the ANNS/CNS Section on Disorders of the Spine and Peripheral Nerves. March, 2007, Phoenix, Arizona.
57. Shehadi J, Sciubba DM, Suki D, McCutcheon IE, Rhines LD, **Gokaslan ZL**. Surgical Treatment Strategies and Outcome in Patients with Breast Cancer Metastatic to the Spine: a Review of 87 Patients. 23rd Annual Meeting of the ANNS/CNS Section on Disorders of the Spine and Peripheral Nerves. March, 2007, Phoenix, Arizona.
58. Wolinsky JP, Sciubba DM, Suk I, **Gokaslan ZL**. Endoscopic image-guided odontoidectomy for basilar invagination via a standard anterior cervical approach. 23rd Annual Meeting of the ANNS/CNS Section on Disorders of the Spine and Peripheral Nerves. March, 2007, Phoenix, Arizona.
59. McGirt MJ, Woodworth GF, Sciubba DM, Wolinsky JP, Jallo GI, **Gokaslan ZL**. Predictors of cervical instability requiring fusion after cervical laminectomy for intradural tumor resection. 23rd Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. March, 2007, Phoenix, Arizona.
60. Shehadi J, Sciubba DM, Suki D, McCutcheon IE, Rhines LD, **Gokaslan ZL**. Positive and Negative Prognostic Variables for

Patients Undergoing Spine Surgery for Metastatic Breast Disease. 23rd Annual Meeting of the ANNS/CNS Section on Disorders of the Spine and Peripheral Nerves. March, 2007, Phoenix, Arizona.

61. Woodworth G, McGirt MJ, **Gokaslan ZL**, Witham T, Jallo GI, Wolinski JP. Predictors of Ambulatory Function following Surgical Resection of Intramedullary Spinal Cord Tumors. Annual Meeting of the Congress of Neurological Surgeons, October, 2007.
62. Sciubba DM, Chaichana, KL, Woodworth GF, McGirt MJ, **Gokaslan ZL**, Jallo GI. Predictors of cervical instability requiring fusion after cervical laminectomy for intradural tumor resection. 35th Annual Meeting of the Cervical Spine Research Society (CSRS). San Francisco, CA November 28th-December 1st, 2007.
63. Vaccaro A, Kopjar B, Chapman J, Shaffrey C, Brodke D, Arnold P, **Gokaslan ZL**, Dekutoski M, Yoon T, Hartl R, France J, Fehlings M. Surgical vs conservative treatment for geriatric odontoid fracture. Initial 6 Month Outcomes of a Multi-Center Prospective Study of 122 Patients. Congress of Neurological Surgeons, Florida, 2008.
64. Chaichana KL, Sciubba DM, Woodworth GF, **Gokaslan ZL**, McGirt MJ, Bydon A. Predictors of ambulatory function following decompressive surgery for metastatic epidural spinal cord compression. Abstract presented at the 24th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, February 27-March 1, 2008.
65. Sciubba DM, Woodworth GF, Gok B, Chaichana KL, Nelson C, McLoughlin GS, **Gokaslan ZL**, McGirt MJ. Predictors of infection following sacral tumor resection: A five year institutional experience. Abstract presented at the 24th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, February 27-March 1, 2008.
66. Sciubba DM, McLoughlin GS, Wolinsky JP, **Gokaslan ZL**, Noggle JC, Vellimana AK. Radiographic and clinical evaluation of free-hand placement of C2 pedicle screws. Abstract presented at the 24th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, February 27-March 1, 2008.
67. Sciubba DM, Ayhan S, Nelson C, Wolinsky JP, Witham TF, Bydon A, **Gokaslan ZL**, Noggle JC. Transthoracic surgical treatment for centrally located thoracic disc herniations causing myelopathy: A five-year institutional experience. Abstract presented at the 24th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, February 27-March 1, 2008.
68. Sciubba DM, Alix C, Pennant WA, Fichtinger G, **Gokaslan ZL**, Murphy KP, Noggle JC, Burdette C. Percutaneous CT-guided conformal ultrasonic ablation of vertebral tumors using a rabbit tumor model. Abstract presented at the 24th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, February 27-March 1, 2008.
69. Sciubba DM, Nelson C, McLoughlin GS, Wolinsky JP, **Gokaslan ZL**. Evaluation of risk factors for infection following sacral tumor resection: a five-year institutional experience. 8th Annual Meeting of the Canadian Spine Society (CSS), March 2008, British Columbia, Canada.
70. Sciubba DM, Nelson C, McGirt MJ, Noggle JC, Woodworth GF, Chaichana K, Wolinsky JP, Gok B, **Gokaslan ZL**. Surgical outcome in patients undergoing resection of sacral tumors. 24th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. March, 2008, Orlando, FL.
71. 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, October 2008, Orlando, FL.
72. Sciubba DM, Nelson C, Blakely J, McGirt MJ, Witham TF, Bydon A, Wolinsky JP, **Gokaslan ZL**. Factors associated with survival after resection of malignant nerve sheath tumors. Annual meeting of the Congress of Neurological Surgeons, Sept, 2008.
73. Sciubba D, McLoughlin G, McGirt MJ, Wolinsky JP, Bydon A, Fournay D, **Gokaslan ZL**, Witham T. Postoperative infection of the instrumented spine: Review of 1,332 procedures. AANS/CNS Spine Section Annual Meeting, Phoenix, Arizona, March, 2009.
74. Sciubba DM, Alish 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, Arizona, March 2009.
75. Parker SL, McGirt MJ, Garces-Ambrossi GL, Mehta VA, Sciubba DM, Bydon A, Witham TF, **Gokaslan ZL**, Wolinsky JP. Trans-laminar versus pedicle screw fixation of C2: Comparison of surgical morbidity and accuracy of 313 consecutive screws. Global Spine Conference, San Francisco CA, June, 2009.
76. Hsu W, Kotowski TA, Zaidi HA, **Gokaslan ZL**, Wolinsky JP. Image-guided, endoscopic transcervical resection of cervical chordoma. Skull Base. 2009 November; 19: 077.
77. Hsu W, Zaidi HA, Kotowski TA, **Gokaslan ZL**, Wolinsky JP. A new technique for intraoperative reduction of occipitocervical instability. Skull Base. 2009 November; 19: 151.
78. McGirt MJ, Sutter E, Xu R, Bydon M, Witham T, Wolinsky JP, **Gokaslan ZL**, Bydon A. In vitro biomechanical comparison of translaminar versus pedicle screws at T1 and T2 in long subaxial cervical constructs. Annual Meeting of the Congress of Neurological Surgeons, New Orleans LA, Oct 2009.
79. McGirt MJ, Parker S, Liauw J, Bydon M, Wolinsky JP, Witham T, Bydon A, **Gokaslan ZL**. Vertebroplasty and kyphoplasty

- for the treatment of vertebral compression fractures: an evidenced based review of the literature. Annual Meeting of the Congress of Neurological Surgeons, New Orleans LA, Oct 2009.
80. Liauw J, McGirt M, Garces-Ambrossi GL, Parker S, Bydon M, Bydon A, Wolinsky JP, **Gokaslan ZL**, Witham TF. Progressive spinal deformity following laminoplasty versus laminectomy for resection of intradural spinal tumors: analysis of 238 patients. Abstract presented at the Congress of Neurological Surgeons, October 26, 2009.
 81. Xu R, McGirt M, Parker S, Bydon M, Liauw J, 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. Abstract presented at the Congress of Neurological Surgeons, October 26, 2009.
 82. Gottfried ON, Omeis I, **Gokaslan ZL**, Wolinsky JP. Sacral tumor resection and the impact on pelvic incidence. Abstract presented at the Congress of Neurological Surgeons, October 26, 2009.
 83. Omeis I, Dhir M, Gottfried ON, Wolinsky JP, **Gokaslan ZL**. Postoperative surgical site infection in patients undergoing spinal tumor surgery: incidence and risk factors. Abstract presented at the Congress of Neurological Surgeons, October 26, 2009.
 84. Bydon M, McGirt MJ, Liauw J, Chaichana KL, Attenello F, Sciubba DM, Bydon A, **Gokaslan ZL**, Wolinsky JP. Endoscopic transcervical odontoidectomy for pediatric basilar invagination and cranial settling. Abstract presented at the Congress of Neurological Surgeons, October 26, 2009.
 85. Chaichana K, Pendleton, McGirt M, Bydon A, Liauw J, Wolinsky JP, **Gokaslan ZL**, Sciubba D. Vertebral compression fractures in patients presenting with metastatic epidural spinal cord compression. CNS Annual Meeting New Orleans, Louisiana. October 2009.
 86. McGirt MJ, Ambrossi GL, Datto 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 or aggressive disc removal. NASS 24th Annual Meeting, November 2009, San Francisco. California.
 87. McGirt MJ, Garces-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, November 2009, San Francisco. California.
 88. 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, November 2009, San Francisco, California.
 89. Fehlings M, Kopjar B, Arnold P, Yoon ST, Vaccaro A, Shaffrey C, Brodke D, Janssen M, Chapman J, Sasso R, Woodard E, Dekutoski M, **Gokaslan ZL**, Bono C. The AOSpine North America Cervical Spondylotic
 90. Myelopathy Study: Two Year Surgical Outcomes of a Prospective Multicenter Study In 280 Patients. Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 16-21, 2010.
 91. Fehlings MG, Kopjar B, Vaccaro AR, Arnold PM, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M. The Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression—Initial Results of the AOSpine North America Prospective Multicenter Study. World Spinal Column Society, World Spine V Meeting, Santorini, Greece, May 7-9, 2010.
 92. Fehlings MG, Kopjar B, Vaccaro AR, Arnold PM, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M. The Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression—Initial Results of the AOSpine North America Prospective Multicenter Study. Scoliosis Research Society (SRS) Annual Meeting, Kyoto, Japan, September 21-24, 2010.
 93. Fehlings MG, Kopjar B, Vaccaro AR, Arnold PM, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M. The Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression—Initial Results of the AOSpine North America Prospective Multicenter Study. North American Spine Society 2010 Annual Meeting, Orlando, FL, October 5-9, 2010.
 94. Fehlings MG, Kopjar B, Vaccaro AR, Arnold PM, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M. The Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression—Initial Results of the AOSpine North America Prospective Multicenter Study. Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 16-21, 2010. [Digital Poster]
 95. Chapman J, Vaccaro A, Fehlings M, Kopjar B, Pollo K, Bauer Z, Shaffrey C, Arnold P, **Gokaslan Z**, Härtl R, Brodke D, France J, Yoon S, Dekutoski M, Sasso R, Bono C. The AOSpine North America Geriatric Odontoid Fracture Study: A Retrospective Review of Mortality Outcomes in Surgical vs Conservative Treatment in 158 Patients with Long Term Follow-up. Cervical Spine Research Society Annual Meeting, Charlotte, North Carolina, December 2-4, 2010.
 96. Fehlings M, Kopjar B, Arnold P, Yoon ST, Vaccaro A, Shaffrey C, Brodke D, Janssen M, Chapman J, Sasso R, Woodard E, Dekutoski M, **Gokaslan Z**, Bono C. Anterior vs Posterior Surgical Approaches to Treat Cervical Spondylotic Myelopathy: Outcomes of the Prospective Multicenter AOSpine North America CSM Study in 280 Patients. Cervical Spine Research Society Annual Meeting, Charlotte, North Carolina, December 2-4, 2010.

97. Fehlings M, Vaccaro A, Kopjar B, Chapman J, Shaffrey C, Arnold P, **Gokaslan ZL**, Hartl R, Brodke D, France J, Yoon ST, Dekutoski M, Sasso R, Bono C. Functional and Quality of Life Outcomes in Geriatric Patients with Type II Odontoid Fracture: One Year Results from the AOSpine North America Multi-Center GOF Prospective Study. 2011 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ, March 9-11, 2011.
98. Fehlings MG, Smith JS, Kopjar B, Arnold PM, Yoon ST, Vaccaro AR, Brodke DS, Janssen ME, Chapman JR, Sasso RC, Woodard EJ, Banco RJ, Massicotte EM, Dekutoski MB, **Gokaslan ZL**, Bono CM, Shaffrey CI. Factors Associated with the Occurrence of Perioperative Complications in the Treatment of Cervical Spondylotic Myelopathy Based on 302 Patients from the AOSpine North America Cervical Spondylotic Myelopathy Study. 2011 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Phoenix, AZ, March 9-11, 2011 [Oral Presentation].
99. Smith J, Shaffrey C, Fehlings M, Kopjar B, Arnold P, Yoon ST, Massicotte E, Vaccaro A, Brodke D, Woodard E, Banco R, Chapman J, Janssen M, Sasso R, Bono C, Dekutoski M, **Gokaslan ZL**. The AOSpine North America Cervical Spondylotic Myelopathy Study: Perioperative Complication Rates Associated with Surgical Treatment Based on a Prospective Multicenter Study of 302 Patients. 2011 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Phoenix, AZ, March 9-11, 2011. [Abstract – Accepted Oral Presentation]
100. Fehlings M, Vaccaro A, Kopjar B, Chapman J, Shaffrey C, Arnold P, **Gokaslan ZL**, Hartl R, Brodke D, France J, Yoon ST, Dekutoski M, Sasso R, Bono C. Functional and Quality of Life Outcomes in Geriatric Patients with Type II Odontoid Fracture: One Year Results from the AOSpine North America Multi-Center GOF Prospective Study. 2011 Global Spine Congress, Barcelona, Spain. March 24-26, 2011.
101. Smith J, Shaffrey C, Fehlings M, Kopjar B, Arnold P, Yoon ST, Massicotte E, Vaccaro A, Brodke D, Woodard E, Banco R, Chapman J, Janssen M, Sasso R, Bono C, Dekutoski M, **Gokaslan ZL**. The AOSpine North America Cervical Spondylotic Myelopathy Study: Perioperative Complication Rates Associated with Surgical Treatment Based on a Prospective Multicenter Study of 302 Patients. 2011 Global Spine Congress, Barcelona, Spain. March 24-26, 2011. Winner of 2011 Global Spine Congress Best Paper Award.
102. Fehlings MG, Kopjar B, Vaccaro AR, Arnold PM, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M, Finkelstein J, Rhines L. The Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression– Initial Results of the AOSpine North America Prospective Multicenter Study. 2011 Global Spine Congress, Barcelona, Spain. March 24-26, 2011.
103. Fehlings MG, Kopjar B, Vaccaro AR, Arnold PM, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M, Finkelstein J, Rhines L. The Short-Term Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression (MESCC) – Initial Results of the AOSpine North America Prospective Multicenter Study. American Association of Neurological Surgeons (AANS), Annual Scientific Meeting, Denver, CO, USA, April 9–13, 2011.
104. Fehlings M, Kopjar B, Yoon ST, Arnold P, Massicotte E, Vaccaro A, Brodke D, Shaffrey C, Woodard E, Banco R, Chapman J, Janssen M, Sasso R, Bono C, Dekutoski M, **Gokaslan ZL**. Predictors of Success in the Surgical Treatment for Cervical Spondylotic Myelopathy: Analysis of the AOSpine North America Multi-Center Prospective Study in 260 Subjects. American Association of Neurological Surgeons (AANS), Annual Scientific Meeting, Denver, CO, USA, April 9–13, 2011.
105. Fehlings M, Kopjar B, Yoon ST, Arnold P, Massicotte E, Vaccaro A, Brodke D, Shaffrey C, Woodard E, Banco R, Chapman J, Janssen M, Sasso R, Bono C, Dekutoski M, **Gokaslan ZL**. The AOSpine North America Cervical Spondylotic Myelopathy Study: Two Year Surgical Outcomes of a Prospective Multicenter Study AND Predictors of Success in the Surgical Treatment for Cervical Spondylotic Myelopathy: Analysis of the AOSpine North America Multi-Center Prospective Study. Tufts University, Department of Orthopedic Surgery, Resident Graduation and Thesis Day, Tufts University School of Medicine, Sackler Auditorium. Robert Banco, MD, June 16, 2011.
106. Fehlings M, Vaccaro A, Kopjar B, Chapman J, Shaffrey C, Arnold P, **Gokaslan ZL**, Hartl R, Brodke D, France J, Yoon ST, Dekutoski M, Sasso R, Bono C. Functional and Quality of Life Outcomes in Geriatric Patients with Type II Odontoid Fracture: One Year Results from the AOSpine North America Multi-Center GOF Prospective Study. 2011 SRS 18th Annual International Meeting on Advanced Spine Techniques (IMAST), Copenhagen, Denmark, July 13-16, 2011.
107. Smith J, Shaffrey C, Fehlings M, Kopjar B, Arnold P, Yoon ST, Massicotte E, Vaccaro A, Brodke D, Woodard E, Banco R, Chapman J, Janssen M, Sasso R, Bono C, Dekutoski M, **Gokaslan ZL**. The AOSpine North America Cervical Spondylotic Myelopathy Study: Perioperative Complication Rates Associated with Surgical Treatment Based on a Prospective Multicenter Study of 302 Patients. 2011 SRS 18th Annual International Meeting on Advanced Spine Techniques (IMAST), Copenhagen, Denmark, July 13-16, 2011. [Abstract – Accepted as Oral Presentation Nominated for Whitecloud Award for Best Clinical Paper].
108. Fehlings M, Smith J, Shaffrey C, Kopjar B, Arnold P, Yoon SW, Vaccaro A, Brodke D, Janssen M, Chapman J, Sasso R, Woodard E, Banco R, Massicotte E, Dekutoski MB, **Gokaslan ZL**, Bono C. Predictors of Clinical Outcomes and Perioperative Complications in the Surgical Treatment of Cervical Spondylotic Myelopathy: Results of the AOSpine North America Multi-Center Prospective Study. 2011 SRS 18th Annual International Meeting on Advanced Spine Techniques (IMAST), Copenhagen, Denmark, July 13-16, 2011. [Abstract – Accepted for Oral Presentation Combined Predictors and Complications Abstract Submissions].

109. Arnold P, Kopjar B, Fehlings M, Yoon ST, Massicotte E, Vaccaro A, Brodke D, Woodard E, Banco E, Chapman J, Janssen M, Sasso S, Bono C, Dekutoski M, **Gokaslan ZL**. Impact of diabetes on symptoms and treatment outcomes in patients with cervical spondylotic myelopathy. The results of the AOSpine North America Multi-Center Prospective Study. 2011 SRS 18th Annual International Meeting on Advanced Spine Techniques (IMAST), Copenhagen, Denmark, July 13-16, 2011. [Abstract – Accepted as E-Poster].
110. Fehlings M, Kopjar B, Vaccaro A, Arnold P, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M, Finkelstein J, Rhines L. The Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression – the AOSpine North America Prospective Multicenter Study. [abstract – accepted as oral presentation] Nominated for Whitecloud Award for Best Clinical Paper. Scoliosis Research Society (SRS) IMAST Meeting, Copenhagen, Denmark, July 13–16, 2011.
111. Arnold P, Kopjar B, Fehlings M, Yoon ST, Massicotte E, Vaccaro A, Brodke D, Woodard E, Banco E, Chapman J, Janssen M, Sasso S, Bono C, Dekutoski M, **Gokaslan ZL**. Impact of diabetes on symptoms and treatment outcomes in patients with cervical spondylotic myelopathy. The results of the AOSpine North America Multi-Center Prospective Study. 2011 Congress of Neurological Surgeons (CNS) Annual Meeting, Washington DC, October 1-6, 2011 [Abstract – Accepted as Oral Presentation].
112. Smith J, Shaffrey C, Kopjar B, Arnold P, Yoon SW, Vaccaro A, Brodke, D, Janssen M, Chapman J, Sasso R, Woodard E, Banco R, Massicotte R, Dekutoski M, **Gokaslan ZL**, Bono C, Fehlings M. Impact of Early and Late Complications on Patient Outcomes following Surgical Treatment of Cervical Spondylotic Myelopathy Based on a Prospective Multicenter Study. The AOSpine North America CSM Study. 2011 Congress of Neurological Surgeons (CNS) Annual Meeting, Washington DC, October 1-6, 2011 [Abstract – Accepted as Oral Presentation].
113. Fehlings M, Kopjar B, Yoon ST, Arnold P, Massicotte E, Vaccaro A, Brodke D, Shaffrey C, Woodard E, Banco R, Chapman J, Janssen M, Sasso R, Bono C, Dekutoski M, **Gokaslan ZL**. Predictors of Success in the Surgical Treatment for Cervical Spondylotic Myelopathy: Analysis of the AOSpine North America Multi-Center Prospective Study in 260 Subjects. 2011 Congress of Neurological Surgeons (CNS) Annual Meeting, Washington DC, October 1-6, 2011 [Abstract – Accepted as Oral Presentation].
114. Smith J, Shaffrey C, Kopjar B, Arnold P, Yoon SW, Vaccaro A, Brodke, D, Janssen M, Chapman J, Sasso R, Woodard E, Banco R, Massicotte R, Dekutoski M, **Gokaslan ZL**, Bono C, Fehlings M. Peri-operative and Delayed Complications Associated with Surgical Treatment of Cervical Spondylotic Myelopathy Based on a Prospective Multicenter Study of 302 Patients. 2011 Congress of Neurological Surgeons (CNS) Annual Meeting, Washington DC, October 1-6, 2011 [Abstract – Accepted as Oral Presentation].
115. Fehlings MG, Kopjar B, Vaccaro AR, Arnold PM, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M, Finkelstein J, Rhines L. The Short-Term Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression (MESCC)– Results of the ongoing AOSpine North America Prospective Multicenter Study. 2011 Congress of Neurological Surgeons (CNS) Annual Meeting, Washington DC, October 1-6, 2011 [Abstract – Accepted as Digital Poster].
116. Fehlings M, Vaccaro A, Kopjar B, Chapman J, Shaffrey C, Arnold P, **Gokaslan ZL**, Hartl R, Brodke D, France J, Yoon ST, Dekutoski M, Sasso R, Bono C. Functional and Quality of Life Outcomes in Geriatric Patients with Type II Odontoid Fracture: One Year Results from the AOSpine North America Multi-Center GOF Prospective Study. 2011 North America Spine Society NASS Meeting, Chicago, IL, November 1-5, 2011. [Abstract – Accepted as Oral Presentation]
117. Fehlings M, Kopjar B, Yoon ST, Arnold P, Massicotte E, Vaccaro A, Brodke D, Shaffrey C, Woodard E, Banco R, Chapman J, Janssen M, Sasso T, Bono C, Dekutoski M, **Gokaslan Z**. Predictors of Outcomes in Surgical Treatment For Cervical Spondylotic Myelopathy: The AOSpine North America Multi-Center Prospective Study. 2011 North America Spine Society NASS Meeting, Chicago, IL, November 1-5, 2011. [Abstract – Accepted as E-Poster]
118. Fehlings M, Kopjar B, Vaccaro A, Arnold P, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M, Finkelstein J, Rhines L, France J. The Effect of Surgery on Neurological Outcomes in Patients with Metastatic Epidural Spinal Cord Compression–the AOSpine North America Prospective Multicenter Study. 2011 39th Annual CSRS Meeting. Scottsdale, AZ. December 8-10, 2011. [Accepted as Oral Poster]
119. Fehlings MG, Kopjar B, Vaccaro AR, Arnold PM, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M. The Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression– Initial Results of the AOSpine North America Prospective Multicenter Study. 2011 North America Spine Society NASS Meeting, Chicago IL, November 1-5, 2011. [Abstract – Accepted as Podium Presentation]
120. Smith J, Shaffrey C, Fehlings M, Kopjar B, Arnold P, Yoon ST, Massicotte E, Vaccaro A, Brodke D, Woodard E, Banco R, Chapman J, Janssen M, Sasso R, Bono C, Dekutoski M, **Gokaslan ZL**. The AOSpine North America Cervical Spondylotic Myelopathy Study: Perioperative Complication Rates Associated with Surgical Treatment Based on a Prospective Multicenter Study of 302 Patients. 2011 North America Spine Society NASS Meeting, Chicago, IL, November 1-5, 2011. [Abstract – Accepted as Oral Presentation]

121. Arnold P, Kopjar B, Fehlings M, Yoon ST, Massicotte E, Vaccaro A, Brodke D, Woodard E, Banco E, Chapman J, Janssen M, Sasso S, Bono C, Dekutoski M, **Gokaslan ZL**. Impact of diabetes on symptoms and treatment outcomes in patients with cervical spondylotic myelopathy. The results of the AOSpine North America Multi-Center Prospective Study. 2011 North America Spine Society NASS Meeting, Chicago, IL, November 1-5, 2011. [Abstract – Accepted as Oral Presentation]
122. Chapman J, Vaccaro A, Fehlings M, Kopjar B, Pollo K, Bauer Z, Shaffrey C, Arnold P, **Gokaslan Z**, Härtl R, Brodke D, France J, Yoon S, Dekutoski M, Sasso R, Bono C. The AOSpine North America Geriatric Odontoid Fracture Study: A Retrospective Review of Mortality Outcomes in Surgical vs Conservative Treatment in 332 Patients with Long Term Follow-up. 2011 39th Annual CSRS Meeting. Scottsdale, AZ. December 8-10, 2011. [Podium Presentation]
123. Fehlings M, Vaccaro A, Kopjar B, Chapman J, Shaffrey C, Arnold P, Gokaslan Z, Brodke D, France J, Yoon S, Dekutoski M, Sasso R, Bono C. Impact of Treatment Complications on Outcomes in Geriatric Patients with Type II Odontoid Fracture: Results from the AOSpine North America Multi-Center GOF Prospective Study. . 2012 Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Orlando, FL. March 7-10, 2012 [Abstract Submitted – Accepted as Oral Presentation]
124. Fehlings M, Vaccaro A, Kopjar B, Chapman J, Shaffrey C, Arnold P, **Gokaslan ZL**, Hartl R, Brodke D, France J, Yoon ST, Dekutoski M, Sasso R, Bono C. Functional and Quality of Life Outcomes in Geriatric Patients with Type II Odontoid Fracture: One Year Results from the AOSpine North America Multi-Center GOF Prospective Study. 2012 Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Orlando, FL. March 7-10, 2012. [Abstract Submitted – Accepted for Oral presentation]
125. Fehlings M, Vaccaro A, Kopjar B, Chapman J, Shaffrey C, Arnold P, **Gokaslan ZL**, Hartl R, Brodke D, France J, Yoon ST, Dekutoski M, Sasso R, Bono C. Functional and Quality of Life Outcomes in Geriatric Patients with Type II Odontoid Fracture: One Year Results from the AOSpine North America Multi-Center GOF Prospective Study. 12th Annual Scientific Conference of the Canadian Spine Society. Sun Peaks, British Columbia. February 29 - March 3, 2012 [Abstract- Accepted as Oral Presentation]
126. Fehlings M, Vaccaro A, Kopjar B, Chapman J, Shaffrey C, Arnold P, **Gokaslan ZL**, Hartl R, Brodke D, France J, Yoon ST, Dekutoski M, Sasso R, Bono C. Functional and Quality of Life Outcomes in Geriatric Patients with Type II Odontoid Fracture: One Year Results from the AOSpine North America Multi-Center GOF Prospective Study. 2012 American Association of Neurological Surgeons (AANS). Miami, FL. April 14-18, 2012.
127. Fehlings M, Kopjar B, Yoon ST, Arnold P, Massicotte E, Vaccaro A, Brodke D, Shaffrey C, Woodard E, Banco R, Chapman J, Janssen M, Sasso R, Bono C, Dekutoski M, **Gokaslan Z**. Is Surgery for Cervical Spondylotic Myelopathy Cost-Effective? 12th Annual Scientific Conference of the Canadian Spine Society. Sun Peaks, British Columbia. February 29 - March 3, 2012 [Abstract – Accepted as Oral presentation]
128. Fehlings M, Kopjar B, Yoon ST, Arnold P, Massicotte E, Vaccaro A, Brodke D, Shaffrey C, Smith J, Woodard E, Banco R, Chapman J, Janssen M, Bono C, Sasso R, Dekutoski M, **Gokaslan ZL**. Anterior vs posterior surgical approaches to treat cervical spondylotic myelopathy: Outcomes of the prospective multicenter AOSpine North America CSM Study in 278 patients. 2012 Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Orlando, FL. March 7-10, 2012. [Abstract Submitted – Accepted as Oral Presentation]
129. Fehlings M, Kopjar B, Yoon ST, Arnold P, Massicotte E, Vaccaro A, Brodke D, Shaffrey C, Woodard E, Banco R, Chapman J, Janssen M, Sasso R, Bono C, Dekutoski M, **Gokaslan Z**. Is Surgery for Cervical Spondylotic Myelopathy Cost-Effective? 2012 American Association of Neurological Surgeons (AANS). Miami, FL. April 14-18, 2012. [Abstract Submitted – Accepted as Oral Presentation]
130. Fehlings MG, Smith JS, Kopjar B, Arnold PM, Yoon ST, Vaccaro AR, Brodke DS, Janssen ME, Chapman JR, Sasso RC, Woodard EJ, Banco RJ, Massicotte EM, Dekutoski MB, **Gokaslan ZL**, Bono CM, Shaffrey CI. Factors Associated with the Occurrence of Perioperative Complications in the Treatment of Cervical Spondylotic Myelopathy Based on 302 Patients from the AOSpine North America Cervical Spondylotic Myelopathy Study. 2011 AANS Annual Conference, Denver, CO. April 9-14, 2011 [Oral Presentation] .
131. Fehlings MG, Smith JS, Kopjar B, Arnold PM, Yoon ST, Vaccaro AR, Brodke DS, Janssen ME, Chapman JR, Sasso RC, Woodard EJ, Banco RJ, Massicotte EM, Dekutoski MB, **Gokaslan ZL**, Bono CM, Shaffrey CI. Factors Associated with the Occurrence of Perioperative Complications in the Treatment of Cervical Spondylotic Myelopathy Based on 302 Patients from the AOSpine North America Cervical Spondylotic Myelopathy Study. 2011 SRS 18th Annual International Meeting on Advanced Spine Techniques (IMAST), Copenhagen, Denmark, July 13-16, 2011. [Oral Presentation].
132. Predictors of Success in the Surgical Treatment for Cervical Spondylotic Myelopathy: Analysis of the AOSpine North America Multi-Center Prospective Study in 260 Subjects. M. Fehlings, B. Kopjar, S. Tim Yoon, P. Arnold, E. Massicotte, A. Vaccaro, D. Brodke, C. Shaffrey, E. Woodard, R. Banco, J. Chapman, M. Janssen, R. Sasso, C. Bono, M. Dekutoski, Z. Gokaslan. 2011 SRS 18th Annual International Meeting on Advanced Spine Techniques (IMAST), Copenhagen, Denmark, July 13-16, 2011. [Oral Presentation]
133. Smith J, Shaffrey C, Kopjar B, Arnold P, Yoon SW, Vaccaro A, Brodke, D, Janssen M, Chapman J, Sasso R, Woodard E,

- Banco R, Massicotte R, Dekutoski M, **Gokaslan ZL**, Bono C, Fehlings M. Impact of Early and Late Complications on Patient Outcomes following Surgical Treatment of Cervical Spondylotic Myelopathy Based on a Prospective Multicenter Study. The AOSpine North America CSM Study. 2011 39th Annual CSRS Meeting. Scottsdale, AZ. December 8-10, 2011[Accepted as podium presentation]
134. Smith J, Shaffrey C, Fehlings M, Kopjar B, Arnold P, Yoon ST, Massicotte E, Vaccaro A, Brodke D, Woodard E, Banco R, Chapman J, Janssen M, Sasso R, Bono C, Dekutoski M, **Gokaslan ZL**. The AOSpine North America Cervical Spondylotic Myelopathy Study: Perioperative Complication Rates Associated with Surgical Treatment Based on a Prospective Multicenter Study of 302 Patients. 2011 39th Annual CSRS Meeting. Scottsdale, AZ. December 8-10, 2011. [Accepted as podium presentation]
 135. Fehlings M, Kopjar B, Yoon ST, Arnold P, Massicotte E, Vaccaro A, Brodke D, Shaffrey C, Woodard E, Banco R, Chapman J, Janssen M, Sasso R, Bono C, Dekutoski M, **Gokaslan Z**. Is Surgical Decompression in Patients with Mild Cervical Spondylotic Myelopathy Effective? Results of the Prospective, Controlled, Multicenter AOSpine North America CSM Study. 2012 Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Orlando, FL. March 7-10, 2012. [Abstract Submitted – Accepted as Oral Presentation]
 136. Fehlings M, Kopjar B, Yoon ST, Arnold P, Massicotte E, Vaccaro A, Brodke D, Shaffrey C, Woodard E, Banco R, Chapman J, Janssen M, Sasso R, Bono C, Dekutoski M, **Gokaslan Z**. Is Surgical Decompression in Patients with Mild Cervical Spondylotic Myelopathy Effective? Results of the Prospective, Controlled, Multicenter AOSpine North America CSM Study. Submitted to JAMA.
 137. Fehlings M, Kopjar B, Yoon ST, Arnold P, Massicotte E, Vaccaro A, Brodke D, Shaffrey C, Woodard E, Banco R, Chapman J, Janssen M, Sasso R, Bono C, Dekutoski M, **Gokaslan Z**. Is Surgical Decompression in Patients with Mild Cervical Spondylotic Myelopathy Effective? Results of the Prospective, Controlled, Multicenter AOSpine North America CSM Study. Submitted to Lancet Neurology.
 138. Fehlings MG, Kopjar B, Vaccaro AR, Arnold PM, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M. The Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression– Initial Results of the AOSpine North America Prospective Multicenter Study. 2011 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ, March 9-11, 2011. [Oral Presentation].
 139. Fehlings MG, Kopjar B, Vaccaro AR, Arnold PM, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M, Finkelstein J, Rhines L. The Short-Term Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression (MESCC)– Results of the ongoing AOSpine North America Prospective Multicenter Study. 2012 Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Orlando, FL. March 7-10, 2012. [Abstract Submitted – Accepted as Oral Presentation]
 140. Fehlings MG, Kopjar B, Vaccaro AR, Arnold PM, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M, Finkelstein J, Rhines L. The Short-Term Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression (MESCC)– Results of the ongoing AOSpine North America Prospective Multicenter Study. 2012 American Association of Neurological Surgeons (AANS). Miami, FL. April 14-18, 2012. [Abstract Submitted – Accepted as Oral Presentation]
 141. Fehlings MG, Kopjar B, Vaccaro AR, Arnold PM, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M. The Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression– Initial Results of the AOSpine North America Prospective Multicenter Study. 2012 Scoliosis Research Society (SRS) 47th Annual Meeting & Combined Course. Chicago, IL, September 5-8, 2012. [Abstract – Accepted Oral Presentation]
 142. Fehlings MG, Kopjar B, Vaccaro AR, Arnold PM, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M. The Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression– Initial Results of the AOSpine North America Prospective Multicenter Study. 2012 North American Spine Society NASS Conference, Dallas, TX October 24-27, 2012. [Abstract]
 143. Fehlings MG, Kopjar B, Vaccaro AR, Arnold PM, Fisher C, **Gokaslan Z**, Schuster J, Dekutoski M. The Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression– Initial Results of the AOSpine North America Prospective Multicenter Study. 2012 62nd Annual Meeting of the Congress of Neurological Surgeons (CNS) [Abstract].
 144. Fehlings M, Kopjar B, Yoon ST, Arnold P, Massicotte E, Vaccaro A, Brodke D, Shaffrey C, Smith J, Woodard E, Banco R, Chapman J, Janssen M, Bono C, Sasso R, Dekutoski M, **Gokaslan ZL**. Anterior vs. posterior surgical approaches to treat cervical spondylotic myelopathy: Outcomes of the prospective multicenter AOSpine North America CSM Study in 278 patients. 2012 North American Spine Society NASS Conference, Dallas, TX October 24-27, 2012. [Abstract – Accepted for Oral Presentation Best Papers Category]
 145. Efficacy and Safety of Surgical Decompression in Patients with Cervical Spondylotic Myelopathy: Results of the AOSpine North America Multi-Centre Study. Fehlings M, Wilson J, Kopjar B, Yoon ST, Arnold P, Massicotte E, Vaccaro A, Brodke D, Shaffrey C, Smith J, Woodard E, Banco R, Chapman J, Janssen M, Bono C, Sasso R, Dekutoski M, **Gokaslan ZL**.

[Submitted to JBJS April 26, 2012]

146. Fehlings MG, Kopjar B, Fisher C, Arnold PM, Vaccaro A, Rhines L, Schuster J, Finkelstein J, Dekutoski M, Gokaslan Z, France J. The Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression: the AOSpine North America Prospective Multicenter Study. Submitted, Global Spine Congress 2013
147. Wang AS, Stayman JW, Otake Y, Kleinszig G, Vogt S, Khanna AJ, Gokaslan ZL, and Siewerdsen JH, "Statistical reconstruction for soft tissue imaging with low dose C-arm cone-beam CT," Proceedings of the 12th International Fully3D Meeting: Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine, 201-204 (2013).
148. Fisher C, Boriani S, Varga P, Fehlings M, Bilsky M, Dekutoski M, Luzzati A, Williams R, Berven S, Chou D, Quraishi N, Rhines L, Bettegowda C, **Gokaslan ZL**. A Novel Scientific Model for Rare and often Neglected Neoplastic Conditions: AOSpine Knowledge Forum Tumor Multicenter, International Dataset for Primary Tumors of the Spine.
149. Kaloostian P, Zandik PL, Karami K, Groves ML, Amin AG, Ju D, Wolinsky JP, Witham T, Bydon A, Z.L. Gokaslan, Sciubba D. Sacral Chordoma: Data from Forty-five Consecutive Cases at a Single Academic Medical Center. P.E. AANS Annual Meeting, New Orleans 2013. Digital Poster.
150. Karami K, Zadnik PL, Kaloosti
151. an P, Groves ML, Gurakar M, Amin A, Ju DG, Wolinsky JP, Witham TF, Bydon A, **Gokaslan ZL**, Sciubba D. Surgical Resection of Multiple Myeloma: Outcomes from Thirty-one Consecutive Patients at a Single Medical Center. AANS Annual Meeting, New Orleans 2013. Digital Poster.
152. Zadnik PL, Groves ML, Kaloostian PE, Karami K, Wolinsky JP, Witham TF, Bydon A, **Gokaslan ZL**, Sciubba DM. Impact of Sacral Chordoma Tumor Size on Patient Length of Stay and Outcome. AANS/CNS Section on Disorders of the Spine and Peripheral Nerve Phoenix 2013. March 6-9. Digital poster.
153. Zadnik PL, Hwang L, Ju D, Groves ML, Sui J, Amin AG, Witham TF, Bydon A, Wolinsky JP, **Gokaslan ZL**, Sciubba DM. Decade in Review at a Single Academic Center: Demographics and Prognostic Variables for Patients Undergoing Spine Surgery for Metastatic Breast Cancer. AANS/CNS Section on Disorders of the Spine and Peripheral Nerve Phoenix 2013. March 6-9. Digital poster.
154. Groves ML, Zadnik PL, Sui J, Ju D, Karami K, Kaloostian P, Wolinsky JP, Bydon A, **Gokaslan ZL**, Witham TF, Sciubba D. Survival following surgical resection of spinal sarcoma: a report of 25 consecutive cases. AANS/CNS Section on Disorders of the Spine and Peripheral Nerve Phoenix 2013. March 6-9. Oral presentation.
155. Ju D, Zadnik PL, Groves ML, Sarabia-Estrada R, Witham TF, Bydon A, Wolinsky JP, **Gokaslan ZL**, Sciubba DM. Predictors of Survival Following Surgical Management of Breast Cancer Metastatic to the Spine. AANS/CNS Section on Disorders of the Spine and Peripheral Nerve Phoenix 2013. March 6-9. Oral presentation. Annual Meeting of the AANS / CNS Joint Section on Disorders of the Spine and Peripheral Nerves. Phoenix, AZ. March 2013. Oral Presentation.
156. 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. Annual Meeting of the AANS / CNS Joint Section on Disorders of the Spine and Peripheral Nerves. Phoenix, AZ. March 2013. Oral Presentation.
157. Bydon M, Xu R, Garza-Ramos R, Henry R, Sciubba DM, Wolinsky JP, Witham T, **Gokaslan ZL**, Bydon A. Incidence and Clinical Outcomes of Patients Requiring Repeat ACDF Surgery Due to Adjacent Level Disease. Annual Meeting of the AANS / CNS Joint Section on Disorders of the Spine and Peripheral Nerves. Phoenix, AZ. March 2013. Oral Presentations.
158. Bydon M, Xu R, Macki M, Sciubba DM, Wolinsky JP, Witham TF, **Gokaslan ZL**, Bydon A. 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 Annual Meeting. Beirut, Lebanon. June 2013. Best Scientific Paper Award.
159. Bydon M, Xu R, Macki M, Sciubba DM, Wolinsky JP, Witham TF, **Gokaslan ZL**, 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. June 2013. Distinguished Abstract Award.
160. Bydon M, Xu R, Macki M, 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. Society for Progress and Innovation in the Near East (SPINE) 2013 Annual Meeting. Beirut, Lebanon. June 2013
161. Bydon M, Xu R, Papademetriou K, Macki M, Sciubba DM, Wolinsky JP, Witham TF, **Gokaslan ZL**, Jallo G, Bydon A. Safety and efficacy of an ultrasonic bone curette in reduction of intraoperative durotomies: Outcomes in 337 patients. Society for Progress and Innovation in the Near East (SPINE) 2013 Annual Meeting. Beirut, Lebanon. June 2013.
162. Bydon M, Xu R, Amin AG, Macki M, Kaloostian P, Sciubba DM, Wolinsky JP, **Gokaslan ZL**, Bydon A, Witham TF. Safety and efficacy of pedicle screw placement using intraoperative computed tomography: Consecutive series of 1148 pedicle screws. Society for Progress and Innovation in the Near East (SPINE) 2013 Annual Meeting. Beirut, Lebanon. June 2013.

163. Bydon M, Xu R, Macki M, Sciubba DM, Wolinsky JP, Witham TF, **Gokaslan ZL**, 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. June 2013.
164. Bydon M, Xu R, Macki M, Sciubba DM, Wolinsky JP, Witham TF, **Gokaslan ZL**, Bydon A. Adjacent Segment Disease after ACDF: Incidence and clinical outcomes of patients requiring anterior versus posterior repeat cervical fusion. World Association of Lebanese Neurosurgeons Home Coming Meeting. Beirut, Lebanon. June 2013.
165. Bydon M, Xu R, Macki M, 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. World Association of Lebanese Neurosurgeons Home Coming Meeting. Beirut, Lebanon. June 2013.
166. Bydon M, Xu R, Papademetriou K, Macki M, Sciubba DM, Wolinsky JP, Witham TF, **Gokaslan ZL**, Jallo G, 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. June 2013.
167. Bydon M, Xu R, Amin AG, Macki M, Kaloostian P, Sciubba DM, Wolinsky JP, **Gokaslan ZL**, Bydon A, Witham TF. 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. June 2013.
168. Bydon M, Xu R, Sciubba DM, Wolinsky JP, Witham TF, Bydon A, **Gokaslan ZL**. Adjacent Segment Disease after ACDF: Clinical Outcomes after First Repeat versus Second Repeat Surgery. American Academy of Neurological Surgery 75th Annual Meeting. Newport Beach, California. September 25-28, 2013.
169. Bydon M, Ma TM, Xu R, Macki M, Weingart J, Olivi A, **Gokaslan ZL**, Tamargo R, Brem H, Bydon A. Surgical Management of Craniocervical Junction Meningiomas: A Series of 22 Consecutive Patients. Congress of Neurological Surgeons 2013 Annual Meeting. San Francisco California, October 19 – 23, 2013.
170. Bydon M, Xu R, Macki M, Ma TM, Kaloostian P, Sciubba DM, Wolinsky JP, **Gokaslan ZL**, Bydon T, 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 California, October 19 – 23, 2013.
171. 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 California, October 19– 23, 2013.
172. Bydon M, Xu R, Macki M, Ma TM, Kaloostian P, Sciubba DM, Wolinsky JP, Witham T, **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 California, October 19 – 23, 2013.
173. 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 California, October 19 – 23, 2013.
174. 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, Maryland; December 13, 2013.
175. 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, Maryland; December 13, 2013.
176. 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, Maryland; December 13, 2013.
177. Macki M, Bydon M, De la Garza-Ramos R, Zadnik P, Sciubba DM, Wolinsky JP, **Gokaslan ZL**. Long-term outcomes in primary spinal osteochondroma: A multicenter study of 27 patients. 8th Annual Bayview Research Symposium. Baltimore, Maryland; December 13, 2013.
178. Bydon M, Xu R, Santiago-Dieppa D, Macki M, De la Garza-Ramos R, Sciubba DM, Wolinsky JP, Bydon A, **Gokaslan ZL**, Bydon A. 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, Maryland; December 13, 2013.
179. 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, Maryland; December 13, 2013.
180. 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, Maryland; December 13, 2013.
181. 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, Maryland; December 13, 2013.
182. 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, Maryland; December 13, 2013.
 183. 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, Maryland; December 13, 2013.
 184. 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, Maryland; December 13, 2013.
 185. 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, Maryland; December 13, 2013.
 186. 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, Maryland; December 13, 2013.
 187. 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, Maryland; December 13, 2013.
 188. 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, Maryland; December 13, 2013.
 189. 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, Maryland; December 13, 2013.
 190. 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, Maryland; December 13, 2013.
 191. 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, Maryland; December 13, 2013.
 192. 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, Maryland; December 13, 2013.
 193. 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, Maryland; December 13, 2013.
 194. 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, Maryland; December 13, 2013.
 195. 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 equine syndrome: An analysis of 48 cases. 8th Annual Bayview Research Symposium. Baltimore, Maryland; December 13, 2013.
 196. 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, Maryland; December 13, 2013.
 197. 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 of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Orlando, Florida; March 5 – 8, 2014.
 198. 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 of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Orlando, Florida; March 5 – 8, 2014.
 199. 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 of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Orlando, Florida; March 5 – 8, 2014.
200. 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 of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Orlando, Florida; March 5 – 8, 2014.
 201. 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 of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Orlando, Florida; March 5 – 8, 2014.
 202. 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 of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Orlando, Florida; March 5 – 8, 2014.
 203. 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 of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Orlando, Florida; March 5 – 8, 2014.
 204. 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 of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Orlando, Florida; March 5 – 8, 2014.
 205. Otake Y, Wang A, Stayman W, Khanna J, Wolinsky JP, Gokaslan ZL, Siewerdsen J. Verification of surgical product and detection of retained foreign bodies using 3D-2D registration in intraoperative mobile radiographs. Computer Assisted Radiology and Surgery (CARS) June 26-29, 2013. Heidelberg, Germany.
 206. Otake Y, Wang A, Stayman W, Khanna J, Groves M, **Gokaslan ZL**, Siewerdsen J, Kleinszig G, Vogt S. Automatic localization of vertebral levels in C-arm fluoroscopy: evaluation of the LevelCheck algorithm in a preclinical cadaver study with realistic tissue deformation. Computer Assisted Radiology and Surgery (CARS) June 26-29, 2013. Heidelberg, Germany.
 207. Wang A, Schafer S, Stayman J, Otake Y, Sussman M, Khanna J, **Gokaslan ZL**, Gallia G, Siewerdsen J. Soft-Tissue Imaging in Low-Dose, C-Arm Cone-Beam CT Using Statistical Image Reconstruction. Computer Assisted Radiology and Surgery (CARS) June 26-29, 2013. Heidelberg, Germany.
 208. Wang A, Otake Y, Stayman J, Uneri A, Kleinszig G, Vogt S, Khanna AJ, **Gokaslan ZL**, Siewerdsen J. Soft Tissue Visibility and Dose Reduction in Mobile C-arm Cone-Beam CT Using Advanced 3D Image Reconstruction. Computer Assisted Radiology and Surgery (CARS) June 26-29, 2013. Heidelberg, Germany.
 209. Fisher C, Fehlings M, Bilsky M, Dekutiski M, Alessandro L, Williams R, Berven S, Quraishi N, Rhines L, Betteogowda C, **Gokaslan ZL**. A Novel Scientific Model for Rare and often Neglected Neoplastic Conditions: AOSpine Knowledge Forum Tumor International Dataset for Primary Tumors of the Spine. SRS/IMAST 20th International Meeting on Advanced Spine Technologies. July 10-13, 2013. Vancouver, British Columbia Canada.
 210. Fisher C, Rhines L, Kawahara N, Fournay D, Reynolds J, Fehlings M, Schouten R, **Gokaslan ZL**. Spinal Instability Neoplastic Score: An Analysis of Reliability and Validity in Radiation Oncologists: An AOSpine Knowledge Forum Tumore Project. SRS/IMAST 20th International Meeting on Advanced Spine Technologies. July 10-13, 2013. Vancouver, British Columbia Canada.
 211. Bydon M, Ma TM, Xu R, Macki M, Weingart J, Olivi A, **Gokaslan ZL**, Tamargo R, Brem H, Bydon A. Surgical Management of Craniocervical Junction Meningiomas: A Series of 22 Consecutive Patients. Congress of Neurological Surgeons 2013 Annual Meeting. October 19 – 23, 2013. San Francisco California.
 212. Bydon M, Xu R, Macki M, Ma TM, Kaloostian P, Sciubba DM, Wolinsky JP, **Gokaslan ZL**, Bydon T, 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. October 19 – 23, 2013. San Francisco California.
 213. 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. October 19 – 23, 2013. San Francisco California.
 214. Bydon M, Xu R, Macki M, Ma TM, Kaloostian P, Sciubba DM, Wolinsky JP, Witham T, **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. October 19 – 23, 2013. San Francisco California.
 215. 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. October 19 – 23, 2013. San Francisco California.
 216. Goldstein C, Varga P, **Gokaslan ZL**, Boriani S, Luzzati A, Williams R, Rhines L, Fisher C, Chou D, Dekutoski M, Quraishi

- N, Bettgowda C, Kawahara N, Fehlings M. Hemangiomas of the spine: results of surgical management and prognostic variables for local recurrence and mortality in a multicenter study. Combined meeting with the Canadian Spine Society and the New Zealand Spine Society 2014. February 25-March 1, 2014. Lake Louise, AB, Canada.
217. Zamorano JJ, Fehlings M, Nater A, Tetreault L, Varga P, **Gokaslan ZL**, Boriani S, Fisher C, Rhines L, Bettgowda C, Kawahara N, Chou D. Local recurrence risk factors after surgical resection of spine schwannomas: analysis of 169 patients from a multicenter international database. Combined meeting with the Canadian Spine Society and the New Zealand Spine Society 2014. February 25-March 1, 2014. Lake Louise, AB, Canada.
 218. Fisher CG, Versteeg A, Boriani S, Varga PP, Dekutoski MB, **Gokaslan ZL**, Williams RP, Reynolds JJ, Fehlings MG, Bettgowda C, Kawahara N, Rhines LD. Chondrosarcomas of the spine: prognostic variables for local recurrence and mortality in a multicenter study. Combined meeting with the Canadian Spine Society and the New Zealand Spine Society 2014. February 25-March 1, 2014. Lake Louise, AB, Canada.
 219. Zadnik P, Varga P, Bettgowda C, Fisher C, Fehlings M, Quraishi N, Luzzati A, Rhines L, Wolinsky JP, Sciubba D, Dekutoski M, Kawahara N, Boriani S, **Gokaslan ZL**. Survival and recurrence following resection of chordoma in the mobile spine: results of 171 patients from the AOSpine Primary Tumor Knowledge Forum. 82nd American Association of Neurological Surgeons Annual Scientific Meeting. April 5-9, 2014. San Francisco, CA.
 220. Fisher CG, Versteeg A, Boriani S, Varga PP, Dekutoski MB, **Gokaslan ZL**, Williams RP, Reynolds JJ, Fehlings MG, Bettgowda C, Kawahara N, Rhines LD. Chondrosarcomas of the spine: prognostic variables for local recurrence and mortality in a multicenter study. 82nd American Association of Neurological Surgeons Annual Scientific Meeting. April 5-9, 2014. San Francisco CA, USA.
 221. 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, California; April 5 – 9, 2014.
 222. Rhines LD, Dirks MS, Boriani S, Luzzati A, Fehlings MG, Fisher CG, Dekutoski MB, Williams R, Quraishi NA, **Gokaslan ZL**, Bettgowda C, Kawahara N, Varga PP. Ewing's sarcoma of the spine: prognostic variables for recurrence and survival in surgically treated patients. 82nd American Association of Neurological Surgeons Annual Scientific Meeting. April 5-9, 2014. San Francisco, CA, USA.
 223. Varga PP, Macki M, Bydon M, Boriani S, Fisher CG, Rhines LD, Chou D, Luzzati A, Reynolds JJ, Kawahara N, Bettgowda C, **Gokaslan ZL**. Long-Term Outcomes in Primary Spinal Osteochondroma: A Multicenter Study of 27 Patients. 82nd AANS Annual Scientific Meeting. San Francisco, California; April 5 – 9, 2014.
 224. Quraishi NA, Boriani S, Varga P, Luzzati A, **Gokaslan ZL**, Fehlings MG, Fisher C, Dekutoski M, Rhines L, Reynolds J, Bettgowda C, Kawahara N, Williams R. A multi-center retrospective cohort study of spinal osteoid osteomas: surgical treatment and local recurrence results. 82nd American Association of Neurological Surgeons Annual Scientific Meeting. April 5-9, 2014. San Francisco, CA, USA.
 225. Bydon M, 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, California; April 5 – 9, 2014.
 226. Varga PP, Macki M, Bydon M, Boriani S, Fisher CG, Rhines LD, Chou D, Luzzati A, Reynolds JJ, Kawahara N, Bettgowda C, Sciubba D, Wolinsky JP, **Gokaslan ZL**. Long-term outcomes in primary spinal osteochondroma: a multicenter center study of 27 patients. 82nd American Association of Neurological Surgeons Annual Scientific Meeting. April 5-9, 2014. San Francisco, CA, USA.
 227. Zamorano JJ, Fehlings M, Nater A, Tetreault L, Varga P, **Gokaslan ZL**, Boriani S, Fisher C, Rhines L, Bettgowda C, Kawahara N, Chou D. Local recurrence risk factors after surgical resection of spine schwannomas: analysis of 169 patients from a multicenter international database. 82nd American Association of Neurological Surgeons Annual Scientific Meeting. April 5-9, 2014. San Francisco, CA, USA.
 228. 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, California; April 5 – 9, 2014.
 229. Bydon M, Abt NB, Olorundare IO, De la Garza-Ramos R, Macki M, Sciubba DM, **Gokaslan ZL**, Bydon A. Age is Not and 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, California; April 5 – 9, 2014.
 230. 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, California; April 5 – 9, 2014.
 231. 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, California; April 5–9, 2014.
232. Bydon M, Abt NB, De la Garza-Ramos R, Macki M, Mathios DM, **Gokaslan ZL**, Bydon A. Physician-Owned Hospitals: A Breakdown of Objective and Subjective Patient Care Data. 82nd AANS Annual Scientific Meeting. San Francisco, California; April 5–9, 2014.
 233. 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, California; April 5–9, 2014.
 234. 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, California; April 5–9, 2014.
 235. 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, California; April 5–9, 2014.
 236. 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 postero-lateral instrumented lumbar arthrodesis: Floating fusion versus distal construct including the sacrum. 2014 Annual Meeting of the Lumbar Spine Research Society. Chicago, Illinois; May 1–2, 2014.
 237. 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 of the Lumbar Spine Research Society. Chicago, Illinois; May 1–2, 2014.
 238. Bydon M, Abt NB, Olorundare IO, De la Garza-Ramos R, Macki M, McGovern K, Sciubba DM, Wolinsky JP, Witham TF, **Gokaslan ZL**. 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 of the Lumbar Spine Research Society. Chicago, Illinois; May 1–2, 2014.
 239. 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 of the Lumbar Spine Research Society. Chicago, Illinois; May 1–2, 2014.
 240. 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 of the Lumbar Spine Research Society. Chicago, Illinois; May 1–2, 2014.
 241. Varga P, Szoverfi Z, Rhines L, Fisher C, Boriani S, Dekutoski M, Quraishi C, Fehlings M, **Gokaslan ZL**. Sacral chordoma: prognostic variables for local recurrence and overall survival. World Forum for Spine Research. May 15-17, 2014. Xi'an, China.
 242. Varga P, Macki M, Bydon M, Sciubba DM, Wolinsky JP, Fisher CG, Reynolds JJ, Rhines LD, Chou D, **Gokaslan ZL**. Long-term outcomes in primary spinal osteochondroma: A multicenter study of 27 patients. EuroSpine. Lyon, France; October 1–3, 2014.
 243. Goldstein C, Varga P, **Gokaslan ZL**, Boriani S, Luzzati A, Williams R, Rhines L, Fisher C, Chou D, Dekutoski M, Quraishi N, Bettegowda C, Kawahara N, Fehlings M. Hemangiomas of the spine: results of surgical management and prognostic variables for local recurrence and mortality in a multicenter study. EuroSpine. Lyon, France; October 1–3, 2014.
 244. Lo SF, Otake Y, Puvanesarajah V, Kleinszig G, Vogt S, **Gokaslan ZL**, Aygun N, Siewerdsen J. A Clinical Evaluation of LevelCheck for Automatic Localization of Target Vertebrae in Spine Surgery (electronic poster). Annual Meeting of the North American Spine Society. San Francisco CA, November 2014.
 245. Uneri A, Otake Y, Wang AS, Kleinszig G, Vogt S, Gallia GL, Rigamonti D, Wolinsky JP, Gokaslan Z, Khanna AJ, and Siewerdsen JH, “Dual-projection 3D-2D registration for surgical guidance: Preclinical evaluation of performance and minimum angular separation,” Proc. SPIE Medical Imaging: Image-Guided Procedures, Robotic Procedures, and Modeling (2014).
 246. Uneri A, Stayman JW, De Silva T, Wang AS, Kleinszig G, Vogt S, Wolinsky JP, **Gokaslan ZL**, Siewerdsen J. Known-component 3D-2D registration for image guidance and quality assurance in spine surgery pedicle screw placement. SPIE Medical Imaging. San Francisco, California; February 7-12, 2015.
 247. Marinetto E, A, De Silva T, Reaungamornrat S, Zbijewski W, Kleinszig G, Wolinsky JP, **Gokaslan ZL**, Pascau J, Siewerdsen J. Intraoperative Fusion Of 3D Ultrasound And C-Arm Cone Beam CT: Feasibility And Characterization For Real-Time Guidance Of Needle Insertion. 29th Annual Computer Assisted Radiology and Surgery. Barcelona, Spain; June 24-27, 2015.
 248. De Silva T, Ketcha M, Uneri A, Yi T, Vogt S, Kleinszig G, Aygun N, Lo SF, Wolinsky JP, **Gokaslan ZL**, Siewerdsen J. Development And Clinical Evaluation Of 3D-2D Registration (LevelCheck) For Vertebral Level Localization In Spine

- Surgery. 29th Annual Computer Assisted Radiology and Surgery. Barcelona, Spain; June 24-27, 2015.
249. Peter Pal Varga, MD; **Ziya L. Gokaslan, MD**; Charles Fisher, BS, MD, FRCSC, MHSc; Stefano Boriani, MD; Wei-Lien Wang, MD; Aron Lazary, PhD; Niccole Germscheid, MS; Chetan Bettgowda, MD, PhD; Stephen Yip, MD, PhD; Laurence D. Rhines, MD. Prognostic Significance of T Gene SNP Rs2305089 in Individuals with Spinal Column Chordoma, presented at the 50th Annual Scoliosis Research Society Meeting, September 30 – October 3, 2015.
 250. De la Garza-Ramos R, Kosztowski T, Xu R, Ramhmdani S, Sciubba D, Wolinsky J, Witham T, **Gokaslan Z**, Bydon A. Long-term Clinical Outcomes following Three-and Four-level Anterior Cervical Discectomy and Fusion. 67th Southern Neurosurgical Society. San Antonio, Texas; March 2-5, 2016.
 251. Ramhmdani S, Xu R, Kosztowski T, De la Garza-Ramos R, Sciubba D, Wolinsky P, Witham T, **Gokaslan Z**, Bydon A. Thoracic Ossification of Ligamentum Flavum. 67th Southern Neurosurgical Society. San Antonio, Texas; March 2-5, 2016.
 252. Presenter for the 32nd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves. “Survival and Clinical Outcomes in Patients with Metastatic Epidural Spinal Cord Compression: Results from the AOSpine Prospective Multi-Centre Study of 142 Patients.” Orlando FL, March 16-19, 2016.
 253. M. Fehlings, A. Nater, L. Tetreault, B. Kopjar, P. Arnold, M. Dekutoski, J. Finkelstein, C. Fisher, J. France, **Z. Gokaslan**, L. Rhines, P. Rose, E. Massicotte, A. Sahal, J. Schuster, A. Vaccaro. Survival and Clinical Outcomes in Patients with Metastatic Epidural Spinal Cord Compression: Results from the AOSpine Prospective Multi-Centre Study of 142 patients. 50th Annual Global Spine Congress, UAE, April 12-17, 2016.
 254. A. Nater, M. Fehlings, L. Tetreault, B. Kopjar, P. Arnold, M. Dekutoski, J. Finkelstein, C. Fisher, J. France, **Z. Gokaslan**, L. Rhines, P. Rose, J. Schuster, A. Vaccaro, A. Sahgal, E. Massicotte. Prognostic Factors for Survival in Surgical Series of Symptomatic Metastatic Epidural Spinal Cord Compression: A Prospective North American Multi-Centre Study in 142 patients. 50th Annual Global Spine Congress, Dubai, UAE, April 12-17, 2016.
 255. A. Kannan, H. Mai, W. Hsu, A. Hilibrand, A. Nassr, P. Arnold, M. Fehlings, V. Traynelis, **Z. Gokaslan**, T. Mroz, M. Bydon, Z. Smith, E. Massicotte, K. D. Riew. Vertebral Artery Injury in Cervical Spine Surgery: Results from AOSpine North America Multicenter Study on 16,582 Patients. 50th Annual Global Spine Congress, Dubai, UAE, April 12-17, 2016.
 256. Bydon M, Macki M, De la Garza-Ramos R, Murgatroyd AA, Mullinix KP, Sun X, Bydon A, Sciubba DM, Cunningham BW, **Gokaslan ZL**. Comprehensive Biomechanical Analysis of Three Lumbopelvic Reconstruction Techniques Following Total Sacrectomy - An In Vitro Human Cadaveric Model. Washington, D.C.; July 13-16, 2016.
 257. Cunningham B, Bydon M, Murgatroyd A, Mullinix K, **Gokaslan ZL**, McAfee P. Comprehensive Biomechanical Analysis of Three Lumbopelvic Reconstruction Techniques following Total Sacrectomy: An In Vitro Human Cadaveric Model. 31st Annual Meeting of the North American Spine Society, Boston, MA, October 26-29, 2016.
 258. Versteeg AL, Sahgal A, Lazary A, Rhines LD, Sciubba DM, Schuster JM, Weber M, Fehlings MG, Clarke MJ, Arnold PM, **Gokaslan ZL**, Fisher CG, AOSpine Knowledge Forum Tumor. Spine Oncology Study Group Outcomes Questionnaire: a valid and reliable patient reported outcome measure for spine oncology patients. 30th European Musculo-Skeletal Oncology Society (EMSOS), Budapest, Hungary, April 26-28, 2017
 259. Bond M, Versteeg A, Sahgal A, Varga P, Sciubba D, Schuster J, Weber M, Clarke M, Rhines L, Boriani S, Bettgowda C, Fehlings M, Arnold P, **Gokaslan Z**, Fisher C. Evidence from the Epidemiology, Process and Outcomes of Spine Oncology (EPOSO) cohort: Surgical versus Radiation Therapy for the Treatment of Cervical Metastases. Spine Summit 2018 – 34th Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, Orlando, FL, USA, March 14-17, 2018.
 260. Ishida W., Elder BD., Ramhmdani S., Theodore N., **Gokaslan ZL**, Wolinsky JP., Bydon A., Witham TF, Sciubba DM., and Lo SF. Clinical and Radiographical Outcomes of S2-Alar-Iliac Screw Instrumentation Via a Freehand Technique for Lumbosacropelvic Fixation in Adult Patients: Minimum Follow-up of Two Years. Lumbar Spine Research Society 2018, Chicago, IL, USA, April 5-6 [Oral Presentation]
 261. Ishida W., Elder BD., Ramhmdani S., Theodore N., **Gokaslan ZL**, Wolinsky JP., Bydon A., Sciubba DM., Witham TF, and Lo SF. Safety Profile of Lumbosacropelvic Fixation in Elderly Patients: Comparison Between S2-Alar-Iliac Screws and Iliac Screws. Lumbar Spine Research Society 2018, Chicago, IL, USA, April 5-6 [Oral Presentation]
 262. Aoude A, Versteeg A, Weber M, Sahgal A, Varga P, Sciubba D, Schuster J, Clarke M, Rhines L, Boriani S, Bettgowda C, Fehlings M, Arnold P, **Gokaslan Z**, Fisher C. Steroids for the management of neurological deficits in patients undergoing surgical treatment for metastatic spine disease: a prospective case series. Global Spine Congress 2018, Singapore, Singapore, May 2-5, 2018.
 263. Versteeg AL, Sahgal A, Rhines LD, Sciubba DM, Schuster JM, Weber M, Fehlings MG, Clarke MJ, Arnold PM, **Gokaslan ZL**, Fisher CG, AOSpine Knowledge Forum Tumor. The refined Spine Oncology Study Group Outcome Questionnaire 2.0 (SOSGOQ2.0): a reliable and valid disease-specific outcome measure Global Spine Congress 2018, Singapore, Singapore, May 2-5, 2018.
 264. Sahgal A, Versteeg AL, Rhines LD, Sciubba DM, Schuster JM, Weber MH, Varga PP, Boriani S, Bettgowda C, Fehlings MG, Clarke MJ, Arnold PM, **Gokaslan ZL**, Fisher CG, AOSpine Knowledge Forum Tumor. A multicenter prospective cohort study evaluating quality of life after radiation or surgery for potentially unstable spinal metastases. CARO 2018 (Canadian Association of Radiation Oncology), Montreal, QC, Canada, September 12-15, 2018.

265. Ishida W., Ramhmdani S., Perdomo PA., Elder BD., Holmes C., Theodore N., **Gokaslan ZL**, Wolinsky JP., Bydon A., Sciubba DM., Witham TF, and Lo SF. Matched-Pair Cohort Study of Spinal Surgery in HIV-Infected Patients: Minimum One-Year Follow-Up. 2018 North American Spine Society Annual Meeting, September 26-29, 2018, Los Angeles, CA [Oral Presentation]
266. Ishida W., Ramhmdani S., Perdomo PA., Elder BD., Holmes C., Theodore N., **Gokaslan ZL**, Wolinsky JP., Bydon A., Sciubba DM., Witham TF, and Lo SF. Single-Center, Matched-Pair Comparative Study of Spine Surgery in Patients with Solid Organ Transplantation: Short- and Long-Term Clinical Outcomes. 2018 North American Spine Society Annual Meeting, September 26-29, 2018, Los Angeles, CA [Oral Presentation]
267. Ishida W., Ramhmdani S., Perdomo PA., Elder BD., Holmes C., Theodore N., **Gokaslan ZL**, Wolinsky JP., Bydon A., Sciubba DM., Witham TF, and Lo SF. Predictors of Postoperative Dysphasia in Adult Patients After Occipitocervical Fusion: Occipital and External Acoustic Meatus to Axis Angle. 2018 North American Spine Society Annual Meeting, September 26-29, 2018, Los Angeles, CA [Poster]
268. Ishida W., Elder BD., Ramhmdani S., Perdomo PA., Holmes C., Theodore N., **Gokaslan ZL**, Wolinsky JP., Bydon A., Sciubba DM., Witham TF, and Lo SF. Safety Profile of Lumbosacropelvic Fixation in Elderly Patients: Comparison Between S2-Alar-Iliac Screws and Iliac Screws. 2018 North American Spine Society Annual Meeting, September 26-29, 2018, Los Angeles, CA [Poster]
269. Versteeg A, Sahgal A, Rhines LD, Sciubba DM, Schuster JM, Bettegowda C, Fehlings MG, Clarke MJ, Arnold PM, **Gokaslan ZL**, Fisher CG. A multicenter prospective cohort study evaluating quality of life after radiation or surgery for potentially unstable spinal metastases. North American Spine Society 33rd Annual Meeting 2018, Los Angeles, CA, USA, September 26-29, 2018
270. Ishida W., Elder BD., Ramhmdani S., Perdomo PA., Holmes C., Theodore N., **Gokaslan ZL**, Wolinsky JP., Bydon A., Sciubba DM., Witham TF, and Lo SF. Clinical and Radiographical Outcomes of S2-Alar-Iliac Screw Instrumentation Via a Freehand Technique for Lumbosacropelvic Fixation in Adult Patients: Minimum Follow-up of Two Years. 2018 Congress of Neurological Surgeons, Annual Meeting, October 6th-10th, 2018, Houston, TX
271. Ishida W., Elder BD., Ramhmdani S., Perdomo PA., Holmes C., Theodore N., **Gokaslan ZL**, Wolinsky JP., Bydon A., Sciubba DM., Witham TF, and Lo SF. Safety Profile of Lumbosacropelvic Fixation in Elderly Patients: Comparison Between S2-Alar-Iliac Screws and Iliac Screws. 2018 Congress of Neurological Surgeons, Annual Meeting, , October 6th-10th, 2018, Houston, TX [Poster]
272. Ramhmdani S., Ishida W., Xia Y., Ramos RDG., Elder BD., **Gokaslan ZL**, Theodore N., Wolinsky JP., Bydon A., Sciubba DM., Witham TF, and Lo SF. Clinical Outcomes of Posterior Atlantoaxial Fusion with Use of Bone Morphogenetic Protein-2 in Adult Patients Without Supplemental Autogenic/Allogenic Bone Graft. 2018 Congress of Neurological Surgeons, Annual Meeting, October 6th-10th, 2018, Houston, TX [Poster]
273. Ishida W., Ramhmdani S., Perdomo PA., Elder BD., Holmes C., Theodore N., **Gokaslan ZL**, Wolinsky JP., Bydon A., Sciubba DM., Witham TF, and Lo SF. Matched-Pair Cohort Study of Spinal Surgery in HIV-Infected Patients: Minimum One-Year Follow-Up. 2018 Congress of Neurological Surgeons, Annual Meeting, October 6th-10th, 2018, Houston, TX [Poster]
274. Ishida W., Ramhmdani S., Perdomo PA., Elder BD., Holmes C., Theodore N., **Gokaslan ZL**, Wolinsky JP., Bydon A., Sciubba DM., Witham TF, and Lo SF. Single-Center, Matched-Pair Comparative Study of Spine Surgery in Patients with Solid Organ Transplantation: Short- and Long-Term Clinical Outcomes. 2018 Congress of Neurological Surgeons, Annual Meeting, October 6th-10th, 2018, Houston, TX [Poster]
275. Ishida W., Ramhmdani S., Perdomo PA., Elder BD., Holmes C., Theodore N., **Gokaslan ZL**, Wolinsky JP., Bydon A., Sciubba DM., Witham TF, and Lo SF. Predictors of Postoperative Dysphasia in Adult Patients After Occipitocervical Fusion: Occipital and External Acoustic Meatus to Axis Angle. 2018 Congress of Neurological Surgeons, Annual Meeting, October 6th-10th, 2018, Houston, TX [Poster]

SCHOLARLY WORK PUBLISHED IN OTHER MEDIA

1. **Gokaslan ZL**: Management of metastatic spinal tumors (video recording). Clinical Oncology Grand Rounds, The University of Texas M. D. Anderson Cancer Center, Video Production Services, Houston, TX, 1996.
2. **Gokaslan ZL**: Management of sacral tumors (video recording). Clinical Oncology Grand Rounds, The University of Texas M. D. Anderson Cancer Center, Video Production Services, Houston, TX, 1997.
3. Cover, Journal of Neurosurgery, Vol. 87: Color illustration of operative field during Stage II of a total sacrectomy (dorsal view of the lumbosacral region), 1997.
4. Cover, Journal of Neurosurgery, Vol. 89: Color illustration of a thoracic vertebrectomy, reconstruction with methylmethacrylate, and placement of anterior locking plate and screw construct, 1997.
5. Cover, Journal of Neurosurgery, Vol. 91: Color illustration of Occipitocervicothoracic fixation with inset of closer view

- depicting Wisconsin interspinous process wiring technique, 1999.
6. Cover, Neurosurgical Focus, 6 (5) Article 3, Combined Chest wall Resection with Vertebrectomy and Spinal Reconstruction for the Treatment of Pancoast Tumors, 1999.
 7. Cover, AANS: Journal of Neurosurgery CD-ROM Vol 90-95 (January 1999-December 2001).
 8. Cover, Journal of Neurosurgery: Spine, Vol 92. Color illustration of cervical vertebra with anterior locking plate/screws, 2000.
 9. Cover, Journal of Neurosurgery, Vol 92. Color illustration of spinal-pelvic fixation technique, 2000.
 10. Cover, AANS: Journal of Neurosurgery CD-ROM Vol. 92-97 (January 2000-December 2002).
 11. Cover, Journal of Neurosurgery: Spine, Vol 94. Color illustration of T8 vertebrectomy, 2001.
 12. Cover, Journal of Neurosurgery: Spine, Vol. 95(2). Color illustration of L4 vertebrectomy, 2001.
 13. Cover, Journal of Neurosurgery: Vol. 95(4). Color illustration of insular tumor resection, 2001.
 14. Trap Door Approach to the Cervicothoracic Junction and Vertebrectomy for Spinal Tumors (Video Recording), CNS Meeting, Philadelphia, PA 2002.
 15. Cover, Journal of Neurosurgery: Spine, Vol. 97(3). Color illustration of en-block multilevel cervical chordoma resection, 2002.
 16. Cover, Neurosurgery: Vol. 51(5). Color illustration of cervical spinal cord ependymoma resection, 2002.
 17. **Gokaslan ZL**. Trap Door Approach to Cervicothoracic Junction and Vertebrectomy for Spinal Metastases. (Video recording), CNS Meeting, Philadelphia, 2002.
 18. **Gokaslan ZL**. Spinal Column Tumors. Practical Reviews in Neurosurgery for Johns Hopkins Hospital Co-sponsored CME Activity. (Audio recording), May 2003.
 19. **Gokaslan ZL**, Weinberg JS. Surgical Management of Spinal Cord Ependymomas. (Video recording), CNS Meeting, Denver, CO 2003.
 20. **Gokaslan, ZL**: "En bloc resection of primary cervical spine tumors" (video recording). The Johns Hopkins Hospital for "Digital Masters", recorded May 21, 2004.
 21. **Gokaslan ZL**, Riley L: The Johns Hopkins Guide to Back Pain (Patient education brochures), 2004.
 22. **Gokaslan ZL**, Haque R: Active correction of kyphotic deformity using an anterior distractible cage via a posterior approach (Poster Presentation). 2005 AANS Annual Meeting, April 16-21, 2005.
 23. **Gokaslan ZL**, Haque R: Spinal pelvic reconstruction after total sacrectomy for en bloc resection of a giant sacral chordoma. 2005 AANS Annual Meeting, April 16-21, 2005.
 24. Skolasky RL, Daruwalla Z, Cohen D, Kebaish K, **Gokaslan ZL**, Long D, Riley L: Examining the utility of pre-existing hospital records as a data source for a quality of care study of lumbar surgeries. NASS Annual Meeting, September 27-October 1, 2005.

INVITED PRESENTATIONS

Presentations at National or International Conferences

1. Faculty of AANS/CNS: Tumors of the sacral region. Joint Section on Disorders of the Spine and Peripheral Nerves of the AANS/CNS, Miami, FL, February, 1996.
2. Faculty of AO ASIF: Comprehensive and Interactive Spine Course: Neurosurgical and orthopedic spinal concepts and techniques. Lecture: Neoplastic disease of the spine. Hands-on course: an overview of the Universal Spinal System. Vancouver, Canada, April, 1996.
3. Faculty of AANS: Oral Board Preparation Course: Comprehensive Review: Spinal Surgery and Instrumentation, Houston, TX, November 10, 1997.
4. Faculty of AANS: Sacral Neoplasms: Management and biomechanical implication. AANS, Philadelphia, PA, April, 1998.
5. Faculty of AO ASIF: Comprehensive and Interactive Spine Course: When decompression alone. An overview of anterior thoracolumbar plate/screw system. Hands-on course: Spinal Instrumentation. Quebec City, Canada, July, 1998.
6. Faculty of AANS: Oral Board Preparation Course: Comprehensive Review: Spinal Surgery and Instrumentation, Baltimore, MD, November, 1998.
7. Faculty of AANS: Practical Clinic Seminar: Surgical exposure, decompression, and stabilization of the cervical spine. AANS, New Orleans, LA, April, 1999.
8. Faculty of CNS: Management strategies for spinal neoplasms. Luncheon Seminar. CNS, Boston, MA, October/November, 1999 (Scientific Program Book p 113).
9. Faculty of AANS: Oral Board Preparation Course: Comprehensive Review: Spinal Surgery and Instrumentation, Baltimore, MD, May, 1999.
10. Faculty of AANS: Oral Board Preparation Course: Comprehensive Review: Spinal Surgery and Instrumentation, Los

Angeles, CA, May, 2000.

11. Faculty of CNS: "Anterior and Posterior Approaches and Stabilization Techniques for the Thoracolumbar Spine." Luncheon Seminar, San Antonio, TX, September, 2000.
12. Faculty of CNS, Practical Clinic Seminar: "Management of Disorders of the Cervical Spine." CNS, San Antonio, TX, September, 2000.
13. Modification of Oral Board Review Course. Discussion sponsored by the Education Committee (PDP) of the AANS, San Antonio, TX, September, 2000.
14. Faculty of AO ASIF: "Evaluation and Diagnosis of Axial Pain vs. Radiculopathy vs. Myelopathy", "Transoral Decompression", "Metastatic Disease of the Spine." Comprehensive and Interactive Spine Course. Captiva, FL, September, 2000.
15. Faculty of AO ASIF: "Claw Principles & Assembly", "Anatomy & Mechanics of the Cervical Spine Fixation Options", "Case Studies: Atlanto-axial and Occipital Cervical Trauma", "Mechanical & Anatomic Issues Regarding Implant Placement & Stability", "Introduction to Advanced Topics - How not to do AO." Spine Resident Course, Rosemont, IL, October 7, 2000.
16. Faculty of AANS: Oral Board Preparation Course: Comprehensive Review: Spinal Surgery and Instrumentation, Houston, TX, November 5, 2000.
17. Invited Faculty: 73rd AO ASIF Interactive spine course: Degenerative and reconstructive spinal surgery, AO International, Davos, Switzerland, December, 2000.
18. Invited Faculty: "Contemporary Surgical Management of Spinal and Sacral Tumors", 4th Foundations of Clinical Cancer Research Symposium sponsored by The University of Texas M. D. Anderson Cancer Center, Houston, TX, March 8-9, 2001.
19. Faculty of AANS: "Anterior & Combined Approaches to the Thoracic, Lumbar Spine, and Sacrum", AANS Breakfast Seminar, Toronto, Ontario, Canada, April 21-26, 2001.
20. Faculty of AO ASIF: "Training and Research Opportunities in Spinal Oncology." AANS Resident's Lounge in Toronto, Ontario, Canada, April 23-25, 2001.
21. Faculty of AANS: Oral Board Preparation Course: Comprehensive Review: Spinal Surgery and Instrumentation, Savannah, GA, May 29, 2001.
22. Invited Faculty: (Co-Chairman) "Metastatic Disease of the Spine", "Transoral Decompression?", "Metastatic Disease of the Spine." AO ASIF Comprehensive Spine Course, Tucson, AZ, May 31, - June 3, 2001.
23. Invited Guest Lecturer: "Management of Cancer of the Cervicothoracic Junction." 36th meeting of the Canadian Congress of Neurological Sciences, Halifax, Nova Scotia, Canada, June 12-16, 2001.
24. Invited Guest Lecturer: "Management and Reconstruction of Complex Neoplastic Disease", "Fracture Tumor Roundtable Case Discussions." 8th International Meeting on Advanced Spine Techniques (IMAST), Paradise Island, Bahamas, July 12-14, 2001.
25. Faculty of AO ASIF: "Transoral Decompression?", "Metastatic Disease of the Spine", "Evaluation and Diagnosis of Degenerative Cervical Spine Disease." AO ASIF Interactive Spine Course, Marco Island, FL, September 6-9, 2001.
26. Faculty of CNS: "Lateral Thoracotomy Approaches" - Practical Clinic Seminar, "Approaches to Spinal Neoplasms" - Luncheon Seminar. 51st CNS Annual Meeting, San Diego CA, September 29-October 4, 2001.
27. Invited Faculty: 75TH AO ASIF Interactive Spine Course: "Upper Cervical Spine Tumors", "Metastatic Spine Disease; Posterior Approach", Is There a Place for Odontoid Resection in Rheumatoid Myelopathy". AO International Spine Course, Davos, Switzerland, December, 2001.
28. Invited Guest Lecturer: Combined Anterior Posterior Approach for Radical Resection of Spinal Tumors. 50th National Congress of Italian Neurosurgical Society. Rome, Italy, December 4-7, 2001.
29. Faculty of AANS/CNS: Moderator "Challenging Spine Tumor Cases" at the 18th Annual Meeting, Orlando, Florida March 1, 2002.
30. Faculty of AANS: Panelist "Evaluation and Management of Primary and Metastatic Vertebral Column Neoplasms" at the 2002 Annual Meeting, Chicago, IL, April 6-11, 2002.
31. Faculty of AO ASIF: Moderator of Practical Exercise III: (A) Anterior Instrumentation for Thoracolumbar Trauma (B) Pedicle Screw Insertion at the AO ASIF Comprehensive & Interactive Spine Courses, Coronado, CA, April 18-21, 2002.
32. Faculty of AO ASIF: "Spine Tumors" presented at the AO ASIF Comprehensive & Interactive Spine Courses, Coronado, CA, April 18-21, 2002.
33. Faculty of AO ASIF: "Early Surgery for Thoraco-Lumbar Fractures" presented at the AO ASIF Comprehensive & Interactive Spine Courses, Coronado, CA, April 18-21, 2002.
34. Faculty of AO ASIF: "Lumbar Decompression for Spinal Stenosis" presented at the AO ASIF Comprehensive & Interactive Spine Courses, Coronado, CA, April 18-21, 2002.
35. Faculty of AO ASIF: "Transoral Decompression Techniques" presented at the AO ASIF Comprehensive & Interactive Spine Courses, Coronado, CA, April 18-21, 2002.

36. Chairman, Instructional Course #1G "Management & Reconstruction of Complex Neoplastic Disease" presented at the 9th International Meeting on Advanced Spine Techniques, Montreux, Switzerland, May 22-25, 2002.
37. Faculty, Roundtable Discussion #2B "Fractures & Tumors" presented at the 9th International Meeting on Advanced Spine Techniques, Montreux, Switzerland, May 22-25, 2002.
38. Faculty of CNS, Moderator: Approaches to Spinal Neoplasms (Primary and Metastatic Tumors) CNS Annual Meeting, Philadelphia, PA, 2002.
39. Faculty of CNS, Practical Clinic Seminar, "Surgical Approaches and Instrumentation of Thoracolumbar Spine" CNS Annual Meeting, Philadelphia, PA, 2002.
40. Faculty of AO ASIF: 1. Evaluation of axial pain, radiculopathy and myelopathy 2. Transoral Decompression for Basilar Invagination 3. Metastatic Spine Tumors, Newport, RI, October 6, 2002.
41. Invited Faculty: AO North America-CASS Fellows Retreat, Keynote Address "Advances in Neoplastic Management, Banff, Alberta, Canada, March 20-23, 2003.
42. Faculty of Johns Hopkins Neurosurgery: "Future of Spinal Neurosurgery" presented at the Johns Hopkins Medical and Surgical Association Biennial Symposium, Baltimore, MD, May, 2003.
43. Faculty of AANS: Oral Board Preparation Course: Comprehensive Review: Spinal Surgery and Instrumentation, Cincinnati, Ohio, May 12, 2003.
44. Faculty of AO ASIF: "Primary Tumor Management" and "Metastatic Disease Management" presented at the AO ASIF Comprehensive & Interactive Spine Courses, Annapolis, MD, June 21, 2003.
45. Faculty of AO ASIF: "Case Presentation: Cervical Myelopathy, Postoperative Neurological Deficit, and Postoperative Lumbar Infections" presented at the AO ASIF Degenerative Spine Symposium, Coronado, CA, July 19-20, 2003.
46. Invited Faculty, Moderator: "Spinal Neoplasms-Radical Surgical Resection of Primary Tumors", and Faculty participant in General Session-Spinal Tumors, "Surgical Outcome I Patients With Hematogenous Lung Cancer Metastases to the Spine: A Series of 37 Patients", Spine Across the Sea, Maui, Hawaii, July 29-31, 2003.
47. Faculty of AO ASIF: "Pearls: Osteoporotic Fractures, Complications of Cervicothoracic Trauma-Anterior Approach, Anterior Surgery for Thoracolumbar Injuries" presented at the AO ASIF Comprehensive & Interactive Spine Courses, Quebec City, Canada, August 7-10, 2003.
48. Faculty of AO ASIF, Lecturer and Moderator: "Tumors of the Craniocervical Junction, C1-C2 Transarticular Screw Fixation, C1-C2 Pedicle Screw Fixation, Occipital Cervical Fusion" presented at the AO ASIF Comprehensive & Interactive Spine Courses, Rosemont, Illinois, August 17, 2003.
49. Faculty of AO ASIF, Moderator: "Surgical Management of Primary Spinal Neoplasms, Transmandibular Approach for En Bloc Resection" presented at AO Spine Tumor Symposium, Rochester, Minnesota, September 5, 2003.
50. Invited Faculty, Co-Moderator: Complex Cervical Reconstruction, NASS, Montreal, Quebec, Canada, October 31-November 2, 2003.
51. Invited Faculty: "Spinal and Back Pain" presented at the Johns Hopkins Medicine's women's health conference "A Woman's Journey", November 8, 2003.
52. Invited Faculty, Moderator and Lecturer: "Neoplastic Disease of the Cervical Spine, Radical resection of primary cervical spinal tumors and reconstruction" presented at CSRS Annual Meeting Symposium, Scottsdale, Arizona, December 11, 2003.
53. Faculty of AO ASIF: "Trauma/degenerative, Degenerative/deformity, Complex spine reconstruction" Comprehensive and Interactive Spine Courses. Davos Platz, Switzerland, December 14-19, 2003.
54. Faculty of AO ASIF, Lecturer: "Primary spinal tumor reconstruction" and "Metastatic spinal tumor reconstruction" 4th Live Spine Surgery Symposium. Bern, Switzerland, February 6-7, 2004.
55. Faculty of AO ASIF, Course Director, Moderator: "Complex Spine Tumors" – Advanced Concepts in the Management of Spinal Disorders. Comprehensive and Interactive Spine Courses, Sun Valley, Idaho, February 19-22, 2004.
56. Faculty of AANS/CNS: Moderator, Master Surgeon Series: Thoracolumbar – Decisions in Spinal Surgery: Patient and Technique Selection. Joint Section on Disorders of the Spine and Peripheral Nerves of the AANS/CNS, San Diego, California, March 17, 2004.
57. Faculty of AANS/CNS: Presenter, "Treatment of Metastatic Disease of the Thoracolumbar Spine: Anterior, Posterior or Both – When and Why?" Joint Section on Disorders of the Spine and Peripheral Nerves of the AANS/CNS, San Diego, California, March 17, 2004.
58. Faculty of AANS/CNS: Co-moderator, Lumbar Surgery: Old Techniques, New Technologies – "How Are New Technological Advances Changing Traditional Spinal Surgery?", Joint Section on Disorders of the Spine and Peripheral Nerves of the AANS/CNS, San Diego, California, March 17, 2004.
59. Faculty of AO ASIF: Lecturer, 1. "Management Options of Large Anterior Column Defects". 2. Case presentation. 3. "Current Management of Metastatic Disease of the Spine" Comprehensive and Interactive Spine Courses. Denver, Colorado, April 3-4, 2004.
60. Faculty of NASS Spring Break: Lecturer, "Innovations in Spine Care." Boca Raton, Florida, April 22-24, 2004.

61. Faculty of AANS: Discussant, "Metastatic Spinal Cord Compression: A Randomized Trial of Direct Decompressive Surgical Resection Plus Radiotherapy vs Radiotherapy Alone." Orlando, Florida, May 1-6, 2004.
62. Faculty of AANS: Discussant, "Case Studies: Cervical Spine" and "Case Studies: Thoracolumbar Trauma." Charlestown, South Carolina, May 14-16, 2004.
63. Invited Faculty of TNS, Lecturer: "Surgical Management of Spinal Neoplasms" and "Surgical Treatment of Sacral Tumors." Annual Scientific Congress of the Turkish Neurosurgical Society. May 22-26, 2004.
64. Course Director, AO North America: "Degenerative Spine Symposium – A Team Approach", Annapolis, Maryland, July 23-25, 2004.
65. Faculty of AO ASIF: Advanced Concepts in the Management of Spinal Disorders, Lecturer: "Anterior Fusion: Techniques, Indications and Devices". Moderator, "Thoracolumbar Spine Trauma" Session. Ponte Vedra Beach, Florida, September 8-12, 2004.
66. Faculty of AO ASIF Residents' Forum: Lecturer, "Neoplastic Disease," "Case Reviews", Annapolis, Maryland, October 1, 2004.
67. Invited Faculty: Lecturer, "Surgical Management of Spinal Metastases" presented at Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins' Current Concepts in Cancer Pain Management symposium, Baltimore, Maryland, October 14-15, 2004.
68. Chairman, North American Spine Society's 19th Annual Meeting. October 27-30, 2004.
69. Faculty of NASS Annual Meeting, Moderator: "Concurrent Focused Review 1- Vertebroplasty," Chicago, Illinois, October 27-30, 2004.
70. Chairman of AO ASIF, Faculty Development Forum. Southampton, Bermuda, November 4-7, 2004.
71. Faculty of AO ASIF: Presenter, "Spine Tumors", AO Spine Masters Course, Davos, Platz, Switzerland, December 14, 2004.
72. Faculty of AO ASIF: Lecturer, "Surgery for Primary Tumors, En Bloc Resection, Region Specific Issues and Case Examples", AO Spine Masters Course, Davos Platz, Switzerland, December 15, 2004.
73. Faculty of NASS Cervical Fixation: A Hands-On Course: Lecturer, "Principles of Anterior Plating: Avoiding complication, Dynamic vs Static," Chicago, Illinois, January 21-22, 2005.
74. Faculty of AO ASIF: Lecturer, "Discogenic Back Pain – Anterior Fusion: Techniques, Indications and Devices" – Advanced Concepts in the Management of Spinal Disorders. Comprehensive and Interactive Spine Courses, Sun Valley, Idaho, February 1-6, 2005.
75. Faculty of AANS: Lecturer, "Treatment of Thoracolumbar Spine Tumors" presented at Innovations in Spinal Fixations: An Advanced Course, Memphis, TN, February 26-27, 2005.
76. Faculty of AANS: Lecturer, "Overview and Approaches to Primary Tumors" presented at Spine and Peripheral Nerves in Phoenix, AZ, March 8-9, 2005.
77. Faculty of AO ASIF: Lecturer, "Foraminotomy Anterior or Posterior" presented at AO International Course, March 17-20, 2005.
78. Faculty, "Fixation/Instrumentation of the Upper Cervical Spine (Techniques and Tips)" presented at the 7th Annual Congress in Spinal Surgery, Antalya, Turkey, April 11-15, 2005.
79. Faculty, "Evaluation and Management of Cervical Instability and Kyphosis" presented at the 7th Annual Congress in Spinal Surgery, Antalya, Turkey, April 11-15, 2005.
80. Faculty, "Total En Bloc Spondylectomy in the Treatment of Metastatic Spinal Tumors: Indications, Techniques and Avoidance of Complications" presented at the 7th Annual Congress in Spinal Surgery, Antalya, Turkey, April 11-15, 2005.
81. Faculty, "Anterior vs. Posterior Surgical Treatment of Cervical Myelopathy Techniques: Pros and Cons" presented at the 7th Annual Congress in Spinal Surgery, Antalya, Turkey, April 11-15, 2005.
82. Faculty of AANS: Lecturer, "En Bloc Resection for Spine Tumors" and Moderator: "Evaluation and Management of Primary and Metastatic Vertebral Column Neoplasms" Session at the AANS Annual Meeting Breakfast Seminar, New Orleans, LA, April 17-18, 2005.
83. Faculty of AO Spine Latin America/AO Spine North America: Presenter, "En Bloc is Preferred" and "Debridement without Hardware Removal is Safe" at Complex Spinal Issues Symposium, Cancun, Mexico, April 20-24, 2005.
84. Co-Chairman of AO North America: AO Challenges and Complications in Complex Spine Surgery Symposium, Baltimore, MD, April 30-May 1, 2005.
85. Faculty of CSR Congressi: Lecturer, "Vertebral Column Metastases: Surgical Management" presented at the International Meeting, Updates in Neuro-Oncology, Arezzo, Italy, June 25-26, 2005.
86. Faculty of AO North America: Moderator, "Thoracolumbar Spine Trauma", Monterey, California, August 10-14, 2005.
87. Faculty of AO North America: Lecturer, "B Lesion with Canal Compromise Session: TL Trauma", Monterey, California, August 10-14, 2005.
88. Faculty of AO North America: Lecturer, "Case Presentation: Burst Fracture", Monterey, California, August 10-14, 2005.
89. Faculty of AO North America: Lecturer, "Rheumatoid Instability at the Upper Cervical Level", Monterey, California, August

- 10-14, 2005.
90. Faculty of AO North America: Lecturer, "Anterior Fusion: Techniques, Indications and Devices", Monterey, California, August 10-14, 2005.
 91. Faculty of AO North America: Lecturer, "Case Presentation: Grade I Spondy. With Stenosis", Monterey, California, August 10-14, 2005.
 92. Faculty of AO North America: Moderator, "Complex Spinal Disorders Session", Monterey, California, August 10-14, 2005.
 93. Course Director for AO North America: "Spine Tumor Symposium", Baltimore, Maryland, October 28-30, 2005.
 94. Faculty of AO Spine European Region: Presenter: "Complications in Intradural Tumor Surgery" and "Vertebral Artery Injury Management", Strasbourg, France, November 16-19, 2005.
 95. Faculty of AO Spine European Region: Presenter: "Case Discussions: Trauma, Tumor, Intraspinous and Cervical – Complications and Revision Surgery," Strasbourg, France, November 16-19, 2005.
 96. Faculty of AO ASIF: ISEC Meeting Principles, Advanced, Masters – Spine Interactive I & II Spine Masters Course, Teacher: AO Spine Trauma & Degenerative Interactive Workshop," "Tumour," "Spinal Tumours ARS," Moderator: "TL Fracture," Davos, Switzerland, December 9-16, 2005.
 97. Faculty of AANS, Lecturer: "Treatment of Thoracolumbar Spine Tumors." Session at the AANS Current Advances in Spinal Fixation, Memphis, Tennessee, February 11, 2006.
 98. Faculty of AO Spine North America Fellows Forum: Presenter: Management Tips in Session "Rostral Kyphosis Above TL Fusion Constructs," Banff, Alberta, Canada, March 9-13, 2006.
 99. Faculty of AANS/CNS: Section of Disorders of the Spine and Peripheral Nerves: Moderator: "Oral Abstract Presentations," Lake Buena Vista, Florida, March 15-18, 2006.
 100. Faculty of 74th Annual Meeting of the AANS, Lecturer: "Vertebral Augmentation: Vertebroplasty and Kyphoplasty, Pathology of Insufficiency," Moderator: "Management of Spinal Column Tumors", Lecturer: "History of Facet Fusion," San Francisco, California, April 22-26, 2006.
 101. Society of Neurological Surgeons Annual Meeting, Durham, North Carolina, May 21-23, 2006.
 102. Faculty of AO ASIF: Controversies in Spine Trauma Symposium: Course Director/Evaluator, Hilton Head, South Carolina, June 3-4, 2006.
 103. Faculty of AO Spine European Region Interactive Spine Course: International Chairman, AO Spine Interactive Course, Istanbul, Turkey, June 16-18, 2006.
 104. Faculty of AO Spine North America Degenerative Spine Symposium: Course Director, Principles and Emerging Technologies, Montreal, Quebec, July 22-23, 2006.
 105. Faculty of AO Spine North America Spine Faculty Development Forum, Moderator: "AO Spine North America Welcome," "Introduction of New Methods," Lecturer: "Future Directions of NASEC and Tools Within Our Informatics Matrix," Southampton, Bermuda, August 9-13, 2006.
 106. Faculty of Fifth Annual International Neuro-Oncology Update, Lecturer: "Surgical Management of Spinal Tumors," Memphis, Tennessee, August 24-25, 2006.
 107. Faculty of Spine Oncology Study Group, Lecturer: "Key Controversies in the Management of Primary Spine Tumors, Surgical Intervention," Chicago, Illinois, October 6, 2006.
 108. Faculty of Congress of Neurological Surgeons 2006 Annual Meeting: Discussant: "Surgical Management of Primary and Metastatic Sarcoma of the Mobile Spine," Lecturer: "Management of Primary Spinal Tumors," "Surgery Versus Radiosurgery for Spinal Metastases," "Patient Evaluation and Selection," Moderator: "Metastatic Spinal Disease: The Role of Surgery and Radiation Therapy," Lecturer: "Patient Evaluation and Literature Update," Faculty of Digital Masters Video Symposium, "Spinal Cord Ependymoma," October 7-12, 2006.
 109. Cervical Spine Research Society 34th Annual Meeting & SCRS 11th Instructional Course, "Controversies in Surgical Management Debates: Laminectomy is Better than Laminoplasty," "Assessment in Surgical Treatment of Craniocervical Pathology," Palm Beach, Florida, November 29-December 2, 2006.
 110. Chairman of AO Spine Cervical Spine Course, Davos, Switzerland, December 8-16, 2006.
 111. Guest Faculty: First International Symposium on Stereotactic Body Radiation Therapy and Stereotactic Radiosurgery: "Surgical Treatments for Sacral Tumors," Orlando, Florida, February 25, 2007.
 112. Faculty of Spine Oncology Study Group, Memphis, Tennessee, February 26, 2007.
 113. Faculty of AANS/CNS: Speaker, "Primary Bone Tumors of the Spine: Top Ten Pearls of Treatment" and "Tumor Recurrence: Spondylectomy/Local Excision" 23rd Annual Meeting of the AANS/CNS Section on Disorders of the Spine & Peripheral Nerves, Phoenix, Arizona, March 7-10, 2007.
 114. Faculty of Fifth Annual AO Spine North America Fellows Forum: Moderator: "Case Discussion: Current Concepts in the Management of Spine Metastasis," Banff, Alberta, Canada, March 29 – April 1, 2007.
 115. Faculty of Spine Oncology Study Group, Washington, D.C., April 12-14, 2007.
 116. Faculty of 75th Annual Meeting of the AANS/CNS, Washington, D.C., April 14-19, 2007.

117. Faculty of AO ASIF: Challenges & Complications in Complex Spine Surgery Symposium, A Team Approach, Lecture: "Complications of Tumor Surgery Including Spinal Cord Tumor," "Management of Complications & Closing Remarks," San Francisco, California, April 28-29, 2007.
118. 1st International Chordoma Research Workshop, Co-Moderator: "Future Clinical Management Break-Out Group Discussions," Bethesda, Maryland, May 3-4, 2007.
119. Member of Society of Neurological Surgeons Meeting, Annual Meeting, San Francisco, California, May 6-8, 2007.
120. Invited Faculty: Advanced Anterior & Posterior Spinal Strategies: Sharpening Your Surgical Skills, Henderson, Nevada, May 18-19, 2007.
121. Faculty of AO Foundation Board of Trustees Meeting, Beijing, China, June 6-9, 2007.
122. Faculty of Second International Meeting Updates in Neuro-Oncology, Lecture: "Metastatic Spinal Tumors: Evaluation and Decision- Making", Corona, Italy, June 28th – July 1, 2007.
123. Course Director, AOSNA Advanced Concepts in the Management of Spinal Disorders, Lecture: "Tumor," Niagara on the Lake, Ontario, Canada, August 2-4, 2007.
124. Guest Lecturer, 13th Congress of the European Association of Neurological Societies, Lecture: "Primary Tumors of the Vertebral Spine", Glasgow, England, September 2-7, 2007.
125. Course Director, AO Spine North America Spine Tumor Symposium, Vancouver, British Columbia, Canada, September 27-29, 2007.
126. Faculty of CSRS Hands-On Cadaver Course, "Anterior Cervical Approach to C2-4 & C7-T3", St. Louis, Missouri, January 17-19, 2008.
127. Faculty of AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, "Treatment of Primary and Metastatic Spine Tumors," and "Advances in the Treatment of Thoracic and Lumbar Spine Trauma – Lumbosacral Pelvic Fixation," Orlando, Florida, February 27-March 1, 2008.
128. Faculty of Interurban Neurosurgical Society Annual Scientific Meeting, "Surgical Management of Spinal Neoplasms," Chicago, Illinois, March 6-7, 2008.
129. Speaker for 6th Annual AOSpine North America Fellows Forum, Banff Springs, Alberta, Canada, April 3-6, 2008.
130. Faculty and Presenter of AO Spine North America Excellence in Spine Controversies in Spine Trauma Symposium, "Post-Traumatic Deformity" and "Spine Injuries in Sports", Baltimore, Maryland, April 12-13, 2008.
131. Presenter for AANS Annual Meeting, "Vertebral Column Tumors" Chicago, Illinois, April 26-May 1, 2008.
132. Faculty and Presenter of AO Spine North America Strategy Summit, "Surgical Management of Metastatic Spine Tumors" Coronado, California, June 26-29, 2008.
133. Faculty for Cleveland Clinic, "Managing Spine Tumors" Cleveland, OH, July 22, 2008.
134. Faculty for AOSpine North America "Advanced Concepts in the Management of Spinal Disorders," Monterey, CA, August 6-10, 2008.
135. Faculty for AO Spine North America "Cervical Stenosis With Myelopathy" and "Complex Spine Pathologies II, Baltimore, MD, September 5-7, 2008.
136. Faculty for AO Spine North America "Lecture-Cervicothoracic Injuries" and "Tumors", Sun Valley, Idaho, February 4-8, 2009.
137. Faculty for AANS/CNS "Treatment of Primary and Metastatic Spine Tumors", Phoenix, Arizona March 11-14, 2009.
138. Faculty for AO Spine North America "Spine Tumor Symposium", Houston, Texas, March 27-29, 2009.
139. Chairperson AO Spine Europe "Masterclass in Degenerative and Tumor Spine, Turkey, June 11-13, 2009.
140. Faculty for AO Spine North America, "Symposium 4: Tumors, Introduction and Decision Making and Primary Spinal Tumors, San Francisco, CA, June 23-26, 2009.
141. Invited Speaker for Neuro Oncology Conference Speaker 2009, "Intramedullary Tumors", Columbus, Ohio, September 8-9, 2009.
142. Moderator for Scoliosis Research Society 44th Annual Meeting, "Management of Intraoperative Problems in Deformity Cases", September 23, 2009.
143. Faculty for 5th Annual Temple Spine Symposium Spinal Oncology and Spinal Degeneration, "Spinal Neoplasms", Philadelphia, PA, October 2, 2009.
144. Faculty for NASS Annual Meeting, "Management of Intraoperative Problems in Deformity Cases", San Francisco, CA, November 9-11, 2009.
145. Invited Speaker for CSRS 14th Instructional Course, "Occipital Cervical & C1-C2 Intraoperative Reduction Technique" and "Complications in Treatment of Cervical Spine Metastases", Salt Lake City, UT, December 2, 2009.
146. Faculty for 26th Annual Meeting of the AANS/CNS Section on "Disorders of the Spine and Peripheral Nerves", Orlando, Florida, February 17-20, 2010.
147. Faculty for AOSNA Advanced Concepts in the Management of Spinal Disorders, Salt Lake City, Utah, February 24-28, 2010.

148. Faculty for AOSNA Spine Fellows Forum, Banff, Canada, April 7-11, 2010.
149. Invited Speaker for 2010 AANS Annual Meeting on “Complications and Complex Spinal Surgery: Lessons Learned, Philadelphia, PA, April 30 – May 5, 2010.
150. Presenter for Korean American Spine Society Meeting, July 16, 2010.
151. Faculty for 2010 CNS Annual Meeting, San Francisco, CA, October 16-21, 2010.
152. Faculty for CSRS 15th Instructional Course, Charlotte, NC, December 1-3, 2010.
153. Invited Speaker for 5th Annual David W. Cahill Spine Symposium, Tampa, FL, January 7-8, 2011.
154. Faculty for 4th Annual CSRS, St. Louis, MO, January 27-29, 2011.
155. Faculty for Instructional Course Lecture, San Diego, CA, February 16-17, 2011.
156. Chairperson for 27th Annual Meeting AANS/CNS Spine Section Meeting, Phoenix, AZ, March 9-12, 2011.
157. Chairperson for AO Spine Global Spine Congress, Barcelona, Spain, March 22-24, 2011.
158. Faculty for AANS 2011 Annual Meeting, Denver, CO, April 9-13, 2011.
159. Faculty for AANS Spinal Deformity Course for Senior Residents, Baltimore, MD, May 6-8, 2011.
160. Chairperson, Executive Meeting for Study Groups, Chicago, IL, May 14, 2011.
161. Chairperson for AOSpine Tumor Symposium, Boston, MA, May 20-22, 2011.
162. Invited Speaker for UCSF Spine Symposium, San Francisco, CA, June 2-5, 2011.
163. Invited Speaker, International Meeting – Tumors & Osteoporosis, Bologna, Italy, June 9-12, 2011.
164. Faculty for AO Spine Trustees Meeting, Berlin, Germany, July 20 – 23, 2011.
165. Keynote Speaker for Second Annual Spine Symposium: Spinal Tumors, New Haven, CT, September 21, 2011.
166. Co-Chairman for AO KF Tumor Meeting, Toronto, Ontario, October 20-22, 2011.
167. Invited Speaker for Society of Neuro-Oncology Annual Meeting, Anaheim, CA, November 16-17, 2011.
168. Presenter for the First Annual Skull Base and Neuro-Oncology Surgery Symposium, Philadelphia, PA, December 1, 2011.
169. Presenter for the 19th Annual Tumors of the Nervous System Course, Boston, MA, December 5, 2011.
170. Presenter for CSRS 16th Instructional Course, Scottsdale, AZ, December 6-7, 2011.
171. Presenter for AAOS 2012 Annual Meeting, San Francisco, CA, February 9, 2012.
172. Presenter for 28th Annual Meeting of the AANS/CNS Section on Disorders of The Spine and Peripheral Nerves, Orlando, FL, March 7-10, 2012.
173. Faculty for 10th Annual AOSNA Fellows Forum, Banff Springs, Alberta, Canada, March 15-17, 2012.
174. Presenter for AANS Spinal Deformity Course for Senior Residents, Baltimore, MD, March 30, - April 1, 2012.
175. Presenter for 2012 AANS Annual Scientific Meeting Breakfast Seminar, Miami, FL, April 14-17, 2012.
176. Faculty for Principles and Treatment of Spinal Disorders for Residents Course, Las Vegas, NV, April 27-28, 2012.
177. Faculty for AO Foundation Fractures and Tumor Expert Group, West Chester, PA, May 4, 2012.
178. Presenter for SRS/IMAST 19th International Meeting, Istanbul, Turkey, July 18-21, 2012.
179. Faculty for Third Annual One Spine Resident’s & Fellow’s Course, Seattle, Washington, August 17-19, 2012.
180. Faculty for AO Spine TKF Meeting, Budapest, September 6-8, 2012.
181. Presenter for 11th Annual Neuro Oncology Updates, Baltimore, MD, September 20, 2012.
182. Faculty for AO Spine Davos Course, Davos, Switzerland, December 9-14, 2012.
183. Faculty for AO Spine Spinal Disorders Course, Park City, UT, February 1-3, 2013.
184. Presenter for ACSR 2013 Winter Meeting, San Diego, CA, February 14-17, 2013.
185. Presenter for CNS 2013 DSPN Annual Meeting, Phoenix, AZ, March 6-9, 2013.
186. Presenter for ICL 2013 AAOS Annual Meeting, Chicago, IL, March 20-21, 2013.
187. Presenter for 2013 Turkish Spine International Congress Meeting, Cappadocia, Turkey, April 15-20, 2013.
188. Presenter for IMAST, 20th International Meeting on Advanced Spine Techniques Meeting, “Decision Making for Sacrectomy vs. Partial Sacrectomy”, Vancouver, Canada. July 10-13, 2013.
189. Presenter for IMAST, 20th International Meeting on Advanced Spine Techniques Meeting, “Role of En Bloc Resection in Metastatic Disease”, Vancouver, Canada. July 10-13, 2013.
190. Presenter for AOSNA Spinal Oncology Knowledge Forum, Chicago, IL, July 26-27, 2013.
191. Presenter for One Spine Fellows 2013, Seattle, WA, “Spinal Tumors” and “Hands on Cadaver Lab and Exhibits, August 15-18, 2013.
192. Presenter for AO – A Comprehensive Hands on Human, Lumbar Session II and Spinal Oncology, Las Vegas, NV, September 12-14, 2013.
193. Presenter for the American Academy of Neurological Surgery, “Evolution of Surgical Treatment of Spinal Chordomas”, Newport Coast, CA, September 25-28, 2013.
194. Presenter for CNS 2013 Annual Meeting, Managing Metastasis to the Spine”, San Francisco, CA, October 19-23, 2013.
195. Course Co-Chairmen, AO Spine Complex Spine Surgery: Innovations in Practice, Tampa, Florida, November 8-9, 2013.

196. Presenter for EANS Annular Meeting, Tel Aviv, November 9-14, 2013. (Medical & Surgical Spine Oncology, Chairmen Spine Session and En Bloc Resection of Primary Spinal Tumors: Regions Specific Challenges).
197. Chairmen AO Spine Davos Course, Davos, Switzerland, December 7-13, 2013.
198. Presenter for ACSR 2014 CME Meeting, San Diego, CA, January 30 – February 1, 2014.
199. Presenter for 65th Annual Meeting of the Southern Neurosurgical Society, San Juan, Puerto Rico, February 20-22, 2014.
200. Presenter for DSPN Annual Meeting, Orlando, FL, March 5-8, 2014.
201. Faculty for 12th Annual AOSNA Fellows Forum, Banff Springs, Alberta, Canada, March 28-30, 2014.
202. Moderator for 2014 AANS Annual Scientific Meeting, (Complications of Complex Spinal Surgery: Lessons Learned) San Francisco, CA, April 5-8, 2014.
203. Presenter for the 2nd Annual State of the Art Neuro Oncology Conference (En Bloc Resection for Spine Tumors), Clearwater Beach, FL. April 11, 2014.
204. Presenter for World Spinal Column Society, (Surgical Treatment of Sacral Fractures and En bloc Resection of Metastatic Tumor, Is there a role?) Montego Bay, Jamaica, May 4-6, 2014.
205. Presenter for ACSR Summer Business Meeting, Chicago, IL, June 20-21, 2014.
206. Presenter for 13th Annual International Neuro-Oncology Updates, Boston, MA, September 2-4, 2014. (Surgical Treatment Of Primary Bone Tumors of The Spine)
207. Faculty for Brazilian Congress on Neurosurgery, Curitiba, Brazil, September 13-16, 2014. (Enbloc Vertebrectomy Through Posterior Approach Only, Chordoma-Em-bloc Sacral Removal, Ewing's Sarcoma, Evolution of Surgical Treatment of Vertebral Metastasis)
208. Presenter for AANS Meeting, Santa Rosa Beach, Florida, September 17-20, 2014.
209. Presenter for Meridian Health Neuroscience Symposium, Red Bank, NJ, October 10, 2014.
210. Presenter for 2014 CNS Annual Meeting, Boston, MA, October 18-21, 2014, 3D Neurosurgery Session Techniques To Advance Safety and Efficacy In Micro Neurosurgery & Management of Metastatic Tumors of The Spine.
211. Presenter for the 41st Annual Hanbery Neurosurgical Society Meeting, "Management of Spinal and Sacral Chordomas." Brewster, MA, July 30 – August 2, 2015.
212. Invited Faculty for the UCSF Neurosurgery Update, Napa, CA, August 6-8, 2015. (Region Specific Challenges in Surgical Treatment of Painful Primary Spinal Neoplasms)
213. Invited Faculty for the UCSF Neurosurgery Update, Napa, CA, August 6-8, 2015. (Recent Advances in Surgical Treatment of Painful Metastatic Spinal Tumors)
214. Faculty of CNS Annual Meeting, "Controversies in Spinal Surgery: Case Based Interactive Discussions," New Orleans, LA, September 28, 2015.
215. Invited Speaker, AO Spine KF Tumor Associate Member Meeting, "Management of Local Recurrence for Primary Tumors of the Spine," New Orleans, LA, September 25, 2015.
216. R. Eustace Semmes Lecturer at the 67th Southern Neurosurgical Society Annual Meeting, San Antonio, TX, March 2-5, 2016.
217. Presenter for the 32nd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves, "Traditional Open Surgical Techniques." Orlando, FL, March 16-19, 2016.
218. Presenter for the 32nd Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves. Debate: Surgical Options for Spinal Metastasis: "Vertebrectomy is the Best Option: Go Big or Go Home!" Orlando, FL, March 16-19, 2016.
219. Faculty for the Global Spine Congress 2016, Dubai, UAE. "Case Presentation for Audience and Expert Panel: 4 Primary Tumor Cases," "Surgical Management of Spinal Osteoblastomas," "A systematic review and expert opinion of preferred reconstructive techniques after enbloc spinal column tumor resection." April 12-17, 2016.
220. Faculty for 84th AANS Annual Scientific Meeting, "Update on Tumors for the General Neurosurgeon." Chicago, IL, April 30 – May 1, 2016.
221. Presenter for the Memorial Sloan Kettering Multidisciplinary Spine Oncology Symposium, "Management of Locally Recurrent Chordomas," New York, NY, June 1-4, 2016.
222. Presenter for The American Academy of Neurological Surgery, 78th Annual Meeting, "Point-Counterpoint Debate III (Surgery/Radiosurgery for spinal mets), Jackson Hole, WY, September 14 -17, 2016.
223. Faculty of AO Spine Symposium "Knowledge Forum Tumor –an update" "The role of the implant construct and fusion after en bloc surgical resection of primary spinal tumors and total sacrectomy" Switzerland, November 2-6, 2016.
224. Faculty of CSRS 21st Instructional Course, "Common Tumors of the Cervical Spine and Surgical Treatment Strategies." Toronto, Ontario, Canada, November 30, 2016.
225. Keynote Speaker for 42nd Annual Louisiana Neurosurgical Society Meeting, New Orleans, LA, January 12-14, 2017.
226. Invited Speaker for the Spinal Tumor, General Spine Breakout, Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves - Spine Summit, "Ahead of the Curve: Transformative Innovations in Spine Surgery." Las Vegas, NV March 8-11, 2017.
227. Presenter for the Memorial Sloan Kettering Multidisciplinary Spine Oncology Symposium, "Value of Spinal Oncology," New

York, NY, April 7-8, 2017.

228. Faculty for Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Spine Summit 2018. Moderator, "Sports-related Spine Trauma," Hollywood, FL, March 12-16, 2018.
229. Faculty for Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Spine Summit 2018. Course Director, Mentoring from A to Z: Learning from the Masters," Hollywood, FL, March 12-16, 2018.
230. Presenter for Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Spine Summit 2018. Spinal Tumoral Pathology Made Easy (DX-Management) with AO Spine – "En Bloc Resection and Instrumented Fusion (Multiple Resection and Stabilization Techniques)" Hollywood, FL, March 12-16, 2018.
231. Presenter for Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Spine Summit, 2018. En-Bloc Resection and Instrumented Fusion (Multiple Resection and Stabilization Techniques). FL, March 12-16, 2018.
232. Faculty, Annual Meeting of AANS, "Spinal Reconstruction Strategies After Oncologic Surgery for Metastatic Cancer" and "The Relevance of Metastatic Spinal Tumors to a Neurosurgeon: Disease Prevalence and Survival in the New Era of Oncological Treatments", New Orleans, LA, April 28 – May 2, 2018.
233. Faculty, Annual Meeting of AANS, Panelist: "Multidisciplinary Approaches to Different Tumors.", New Orleans, LA, April 28 – May 2, 2018.
234. Faculty, Annual Meeting, CNS, Section of Tumors Symposium, "Spine Oncology", Houston, TX, October 6-9, 2018.
235. Faculty, Annual Meeting, CNS, "spinal tumor Surgery, Case Based Management' and Metastatic Thoracic Spinal Tumor Case with a Complication, Avoidance and Management." Houston, TX, October 6-9, 2018.
236. Presenter for 2019 AANS Annual Scientific Meeting Breakfast Seminar, Spinal Cord Tumors: "Approaches and Spinal Reconstruction Paradigms of Different Extramedullary Spinal Cord Tumors in Adults", San Diego, CA, April 11-16, 2019.
237. Presenter for 2019 AANS Annual Scientific Meeting Update on Tumors: "Spinal Reconstruction Strategies after Oncologic Surgery for Metastatic Cancer, San Diego, CA, April 11-16, 2019.
238. Faculty, Moderator, Global Spine Congress, 2019, Symposium: 7 Rules to Treat Metastatic Spine Disease: An antidote to failure. Global Spine Congress Meeting, Toronto, Ontario, Canada, May 15-18, 2019.
239. Faculty, Moderator, Global Spine Congress, 2019, Oral Presentations Tumor 3. Global Spine Congress Meeting, Toronto, Ontario, Canada, May 15-18, 2019.
240. Faculty, Moderator, Global Spine Congress, 2019, Primary Spine Tumor Round Table, Global Spine Congress Meeting, Toronto, Ontario, Canada, May 15-18, 2019.
241. Presenter, Global Spine Congress, 2019. Advances in Spine Tumor Treatment "Multidisciplinary Approach to the Difficult Tumors of the Spine" Global Spine Congress Meeting, Toronto, Ontario, Canada, May 15-18, 2019.
242. Invited Faculty: 31st Annual Pan Philadelphia Neurosurgery Conference: The Future of Neurosurgery is Now. Keynote Lecture "Evolution of Surgical Treatment of Spinal Neoplasms," Philadelphia, PA, December 6, 2019.
243. Invited Faculty, World Spine Columnn Society, Spine Anatomy Session. July 18, 2021.
244. Faculty of AANS/CNS: Section of Disorders of the Spine and Peripheral Nerves: 'Posterior only En bloc Spondylectomy in the T spine." San Diego, CA, July 27, 2021.
245. Faculty of AANS/CNS: Section of Disorders of the Spine and Peripheral Nerves: The Cahill Controversies. Topic 4: En Bloc Resection versus Separation Surgery for Chordoma – PRO: En Bloc Resection Provides Better Outcomes. San Diego, CA, July 28, 2021.
246. Faculty of AANS/CNS: Section of Disorders of the Spine and Peripheral Nerves. Special Course 7. High Sacral Tumors: Single versus Staged Approaches. San Diego, CA, July 28, 2021.
247. Invited Faculty; WFNS Spine Committee and KSOR, "Update for Surgery of Primary Tumors", Virtual, August 21, 2021.
248. Faculty, Global Spine Congress, Symposium hosted by KFTumor: 7 Rules to Treat Metastatic Spine Disease: An Antidote to Failure. November 5, 2021. Virtual.
249. Faculty, Virtual Congress of Craniovertebral Junction and Spine Society. "CVJ chordomas". November 6-7, 2021.
250. Faculty Cervical Spine Research Society Annual Meeting. Tumor and Infection PT II CSRS - Management & Avoidance of Surgical Complications (Anterior/Posterior Wound Complication, Mechanical Complication etc), Atlanta, GA., December 1, 2021.
251. Faculty, Section of Disorders of the Spine and Peripheral Nerves. "Case Discussions with the Masters", Las Vegas, NV, February 25, 2022.
252. Faculty, AO Spine Case Consult Series 2, Virtual, April 4, 2022.
253. Presenter for IMAST, 29th International Meeting on Advanced Spine Techniques Meeting, "Managing Complex Issues in Patients with Spinal Tumors" Miami, FL April 6-8, 2022.
254. Invited Faculty for AANS Annual Meeting, "6 Pearls of Tumor Surgery." "Cauda Equina Syndrome – Pearls and Pitfalls – Follow the Patient – Diagnostic Challenge: Plexiform Lesions." Philadelphia, PA, April 28 – May 2, 2022.
255. Faculty, Moderator, AANS Annual Meeting "Session V – Spine" Philadelphia, PA, April 28 – May 2, 2022.

256. Faculty, Presenter, AANS Annual Meeting “Spine Oncology Q & A” Philadelphia, PA, April 28 – May 2, 2022.
257. Faculty, NASS, Contemporary Management of Spinal Tumors. Burr Ridge, IL May 13-14, 2022.
258. Faculty, Cervical Spine Research Society Annual Meeting, “Urgent/Emergent “On-call” evaluation of the cervical spine tumor patient.” San Diego, CA, November 15-17, 2022.
259. Faculty, Spine Committee Consensus Meeting, Karad, India, “Surgical option for Thoracic, Lumbar, and Sacral metastatic Vertebral Tumors” Virtual - January 28, 2023.
260. Faculty, Spine Summit, 2023, “Special Course 8: Treatment and Complication Avoidance in the Management of Spinal Tumors DISCUSSION WITH THE MASTERS”, Miami, FL, March 18, 2023.
261. Faculty, Seattle Science Foundation, 13th Annual Advanced Multimodal Treatment of Spinal tumors Course, “Surgical Management of Primary Malignant Bone Tumors,” Virtual, May 20, 2023.
262. Invited Speaker, AO Spine KF Tumor Associate Member Meeting, “3-D Patient Specific Tumor Models and Intraoperative Tumor Mapping with Image Fusion for Enhanced Tumor Resection,” Prague, Czech Republic, June 6, 2023.
263. Faculty, Global Spine Congress, Symposium hosted by KFTumor: “Prevention and management of wound complications following oncologic spine surgery: systemic review and proposed clinical algorithm”, Prague, Czech Republic, June 6, 2023.
264. Faculty, Research Update in Neuroscience for Neurosurgeons (RUNN) Course, “Surgical treatment principles and biology of spinal and sacral chordomas’ Woods Hole, MA October 25-26, 2023.
265. Faculty, Texas Association of Neurological Surgeons, “Recent Advances in Surgical Management of Metastatic Spine Tumors,” Corpus Cristi, TX, February 2-4, 2024.
266. Faculty, Spine Summit, 2024, “Special Course 4: Spine Oncology Update: Patient Selection Considerations: When Is En Bloc Resection Indicated and Feasible? Las Vegas, NV, February 21, 2024.
267. Faculty, 7th International Spine Tumor Days, Dresden, Germany. “Shifting Paradigms in the treatment of chordoma” Virtual.
268. Faculty, Seattle Science Foundation, 14th Annual Advanced Multimodal Treatment of Spinal tumors Course, “Primary Spinal Tumors” Virtual, March 16, 2024.
269. Faculty, Presenter, AANS Annual Meeting “The Fantastic Four: Four Debates on Key Topics & the Van Wagenen Lecture - Spine Session II” Chicago, IL, May 4 -6, 2024.
270. Faculty, Presenter, CNS Annual Meeting “Surgical Management of Primary Spinal Tumors” Houston, TX, September 29 – October 1, 2024.
271. Faculty, Research Update in Neuroscience for Neurosurgeons (RUNN) Course, “Surgical treatment principles and biology of spinal and sacral chordomas’ Woods Hole, MA November 7, 2024.
272. Faculty, Seattle Science Foundation, 15th Annual Advanced Multimodal Treatment of Spinal tumors Course, “Primary Spinal Column Tumors” Virtual, March 15, 2025.

Invited Reviews, Editorials

1. Invited Topic Editor: Metastatic Disease of the Spine, Neurosurgical Focus, December 2001.
2. Member of the Selection Committee for the 2002 Outstanding Paper Awards for *The Spine Journal* North American Spine Society (NASS), March 2002.
3. Member of Committee grading abstracts for the NASS 17th Annual Meeting, March 2002.
4. Member of Cervical Spine Research Society Editorial Committee, The Cervical Spine 5th Edition, 2012.

Chairing National or International Conferences/Symposia

1. AO ASIF, Comprehensive & Intactive Spine Courses, Tucson, Arizona, Co-Chairman, 5/2001- 6/2001.
2. AO ASIF, International Symposium on Spinal Tumors, Houston, Texas, Co-Chairman, 3/2002.
3. AO ASEC (North American Spine Education Committee), Chairman, 2003.
4. Cervical Spine Research Society, Neoplastic Disease of the Cervical Spine, Scottsdale, Arizona, Moderator and Lecturer, 2003.
5. North American Spine Society (NASS) Scientific Program Committee, Chicago, IL, Chairman 2004.
6. AO Spine North America, Faculty Development Forum, Southampton, Bermuda, Chairman, November 4-7, 2004.
7. AO North America, AO Challenges and Complications in Complex Spine Surgery Symposium, Baltimore, MD, Co-Chairman, April 30-May 1, 2005.

Seminar Invitations from Other Institutions

1. Invited Guest Lecturer: Surgical Treatment of Primary Spinal Cord Tumors. Presented at the International Neuro-Oncology Symposium sponsored by the Albert Einstein Hospital, Sao Paulo, Brazil, December 10, 1999.
2. Invited Guest Lecturer: Management of Spinal Metastasis. Presented at the International Neuro-Oncology Symposium hosted by the Albert Einstein Hospital, Sao Paulo, Brazil, December 11, 1999.

3. Invited Faculty: “Thoracic and Lumbar Tumor Resection and Reconstruction” presented at the Neuro-Oncology 2001: Current Concepts Symposium sponsored by The Cleveland Clinic Foundation’s Brain Tumor and Neuro-Oncology Center, February 17-20, 2001.
4. Invited Faculty: “Tumor Characterization and Biology” presented at the Neuro-Oncology 2001: Current Concepts Symposium sponsored by The Cleveland Clinic Foundation’s Brain Tumor and Neuro-Oncology Center, February 17-20, 2001.
5. Invited Faculty: “Surgical Management of Spinal Metastatic Disease” presented at the Brain Tumors Symposium at the University of Utah’s Huntsman Cancer Institute, January 27-29, 2005.
6. Invited Guest, Anadolu Medical Center, Istanbul, Turkey, January 24-28, 2007.
7. Invited Speaker: “Recent Advances in Spinal Surgery” and “Cranial Cervical Junction Abnormalities,” Anadolu Medical Center, Istanbul, Turkey, May 23-27, 2007.
8. Invited Guest Lecturer: Israel Neurosurgical Society, “The Treatment of Primary Spinal Tumors” and “Surgical Treatment of Metastatic Tumor of the Spine, March 16-20, 2010.
9. Invited Guest Speaker: “Surgical Treatment of Primary Spinal Tumors, Quebec City, June 6-10, 2010.
10. Invited Guest Speaker: NYU/HJD Spine Fellows/Residents Alumni Symposium, September 11, 2010.
11. Invited Guest Speaker: South Korean Neurosurgical Society Meeting, October 27-29, 2011.
12. Invited Guest Examiner: Fall Oral Examinations of the American Board of Neurological Surgery, November 8-11, 2011.
13. Invited Speaker: ISASS Miami Course, January 28-29, 2012.
14. Invited Faculty: 7th Mayo Clinic Spine Symposium, March 26-28, 2012.
15. Invited Guest Speaker: Hokkaido University Spinal Reconstruction Seminar, Sapporo, Japan, June 27-28, 2012.
16. Invited Guest Speaker: A Woman’s Journey, Palm Beach, FL, January 24-25, 2013.
17. Honored Guest Speaker: Surgical Management of Spinal Neoplasms, University of Maryland Department of Neurosurgery, May 8, 2013.
18. Invited Faculty: Lateral Open Access to T-L Spine (Thoracotomy, Thoracoabdominal Approach), 5th Annual Johns Hopkins Spine Workshop, August 28-29, 2015.
19. Invited Guest Speaker: Current Surgical Management of Spinal Neoplasms, Bernard Stone Memorial Lecture, University of Massachusetts Medical School Department of Neurosurgery, September 23, 2015.
20. Invited Faculty: Lateral Open Approaches to T-L Spine (Lateral Open Access to T-L Spine (Thoracotomy , Thoracoabdominal Approach), 6th Annual Johns Hopkins Spine Workshop, August 26-27, 2016.
21. Invited Faculty: 18th Annual Brain Tumor Update and 7th Annual International Symposium on Long-Term Control of Metastases to the Brain and Spine, Las Vegas, NV, October 22 -23, 2016.
22. Invited Faculty: “New York Neurosurgery III The Cutting Edge – Innovations in Neurosurgery,” Northwell Health, New York, NY, October 28, 2016.
23. “Recent Advances in Surgical Mangement of Spinal Neoplasms,” Invited Lecturer, 46th Annual Meeting of the Japanese Society for Spine Surgery and Related Research, Sapporo, Japan, April 12 – 15, 2017.
24. Invited Faculty: World Spine 8 Lisbon, Portugal,. Pre-Meeting Cadaver Course, April 14 – 15, 2019.
25. Invited Faculty: World Spine 8 Lisbon, Portugal, Moderator, Plenary Session, April 16, 2018.
26. Invited Faculty: World Spine 8. Lisbon, Portugal, “En Bloc Resection for Primary Spinal Column Tumors,” and “Surgical Treatment of Sacral Tmors,” April 16, 2018.
27. Invited Faculty: New York Neurosurgical Society Annual Meeting, New York, NY. “Recent Advances in Surgical Treatment of Spinal Tumors.” May 18, 2018.
28. Invited Speaker: CSRS Annual Meeting, “Dural Involvement in Tumor Surgery”, Scottsdale, AZ, December 6-8, 2018.
29. Honored Guest Speaker: 2019 TANS Annual Meeting, San Antonio, TX. “Recent Advances in Surgical Treatment of Metastatic Spinal Tumor.” February 7 – 10, 2019.
30. Invited Faculty: DSPN, Spine Summit, “En Bloc Resection and Instrumented Fusion,” Miami, FL, March 15-17, 2019.
31. Invited Faculty: DSPN, Spine Summit, Cahill Controversies: “Aggressive Spinal Reconstruction is Best,” Miami, FL, March 15-17, 2019.
32. Invited Faculty: Benzel Symposium, AANS, “Current Surgical Management of Spinal Neoplasms”, San Diego, CA, April 11-12, 2019.
33. Invited Faculty: Izmir On-Line Neurosurgery, “Resection and Reconstruction Techniques in Managing Spinal Tumors”, Virtual Conference, January 26, 2021.
34. Invited Guest Examiner: Spring Oral Examinations of the American Board of Neurological Surgery, May 11-12, 2023.
35. Invited Faculty: Brown Neurosurgery-Orthopedics Cadaveric Spine Course for Residents and Fellows , “Lateral Approaches to the Thoracolumbar Spine” Fall River, MA, September 15-16, 2023.
36. Honored Guest Speaker: 2024 TANS Annual Meeting, San Antonio, TX. “Recent Advances in Surgical Treatment of Metastatic Spinal Tumor.” February 1 – 4, 2024.

37. Invited Faculty: Sacro-Pelvic Tumor Study Group Meeting. MD Anderson Cancer Center, Houston Texas. March 6-9, 2024.
38. Invited Guest Examiner: Spring Oral Examinations of the American Board of Neurological Surgery, May 9-11, 2024.
39. Invited Guest Examiner: Fall Oral Examinations of the American Board of Neurological Surgery, October 25 -26, 2024.
40. Invited Speaker: CSRS Annual Meeting, "Intradural Tumors for Dummies", Chicago, IL, December 11, 2024.
41. Invited Guest Examiner: Spring Oral Examinations of the American Board of Neurological Surgery, May 2 – 4, 2025.
42. Invited Speaker: MGB Spine Symposium, Discussant: "Surgical Approaches for Spinal Metastases" "Strategies for Providing a Strong Foundation" Boston, MA September 4, 2025.

Lectureships and Visiting Professorships

1. Visiting Professor: "Spine surgery for metastatic disease", Hillcrest Fentress Cancer Center, Waco, TX, June, 1996.
2. Visiting Professor: "Management of metastatic spinal tumors". The University of Texas Southwestern Medical Center at Dallas, TX, February, 1997.
3. Visiting Professor: "Complex cervical pathology and treatment strategies". The University of Cincinnati, Mayfield Clinic, Cincinnati, OH, August, 1999.
4. Visiting Professor: "Focus on Spinal Column Tumors". 5h Annual Complex Spine Day, The University of Manitoba, Winnipeg, Canada, October 28, 2000.
5. Visiting Professor: "Management of Metastatic Spine Tumors". 5th Annual Complex Spine Day, The University of Manitoba, Winnipeg, Canada, October 29, 2000.
6. Visiting Professor: "Surgical Management of Spinal Neoplasms". Spine Conference, Johns Hopkins Hospital, Baltimore, Maryland, June 5, 2001.
7. Visiting Professor: "Contemporary Surgical Management of Spinal Neoplasms" Brown University Program in Neurosurgery Grand Rounds, Providence, Rhode Island, October 22, 2001.
8. Visiting Professor: "Surgical Management of Sacral Tumors" Rhode Island Neurosurgical Society Meeting, Providence, Rhode Island, October 22, 2001.
9. Visiting Professor: "Radical Surgical Resection for the Treatment of Spinal Neoplasms" New York University School of Medicine Grand Rounds, New York, New York, January 24, 2003.
10. Visiting Professor: "Surgical Management of Spinal Neoplasms" New York Medical College Department of Neurosurgery Grand Rounds, Valhalla, New York, May 9, 2003.
11. Visiting Professor: "Spinal Metastasis" and "En Bloc Resection for Primary Spinal Neoplasms." NIH/George Washington Lecture, Department of Neurosurgery Resident Lectures, Bethesda, MD, February 22, 2005.
12. Visiting Professor: "Surgical Management of Spinal Neoplasms" University of Pennsylvania, Department of Neurosurgery Grand Rounds, February 24, 2005.
13. Visiting Professor: "Surgical Management of Spinal Neoplasms" University of Miami, Department of Neurosurgery Grand Rounds, Miami, Florida, June 2, 2005.
14. Visiting Professor: "Sacral Tumors" University of Miami, Department of Neurosurgery Lecture, Miami, Florida, June 3, 2005.
15. Lecturer: "Surgical Management of Spinal Tumors" Johns Hopkins University, Department of Orthopaedic Grand Rounds, June 9, 2005.
16. Visiting Professor: "Surgical Management of Spinal Neoplasms" Thomas Jefferson University Hospital, Department of Neurosurgery Grand Rounds, February 3, 2006.
17. Visiting Professor: "Sacral Tumors" Brigham and Women's Hospital and Children's Hospital, Department of Neurosurgery, February 9, 2006.
18. Visiting Professor: "Surgical Management of Spinal Neoplasms" Yale University School of Medicine, New Haven, Connecticut, September 22, 2006.
19. Visiting Professor: "Sacral Tumors" Brigham and Women's Hospital and Children's Hospital, Department of Neurosurgery, Boston, Massachusetts, February 9, 2007.
20. Visiting Professor: "Surgical Management of Spinal Tumors" University of Utah School of Medicine, Salt Lake City, Utah, February 21, 2007.
21. Visiting Professor: "Surgical Management of Spinal Neoplasms" Stanford University Medical Center, Department of Neurosurgery Grand Rounds, Stanford, California, March 23, 2007.
22. Guest Lecturer, 13th Congress of the European Association of Neurological Societies, Lecture: "Primary Tumors of the Vertebral Spine", Glasgow, England, September 2-7, 2007.
23. Visiting Professor: "Surgical Management of Primary Spinal Neoplasms" & "Surgical Treatment of Sacral Tumors", Washington University, St. Louis, Missouri, November 6-8, 2007.
24. Visiting Professor: "Surgical Management of Primary Spinal Neoplasms" Neurological Institute of New Jersey, Newark,

New Jersey, November 13-14, 2007.

25. Visiting Professor: “Surgical Management of Primary Spinal Neoplasms” Baylor College of Medicine, Houston, Texas, February 7-9, 2008.
26. Visiting Professor “Surgical Management of Spinal Neoplasms ” University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, May 6-7, 2008.
27. Visiting Professor : “Surgical Management of Spinal Neoplasms ” Henry Ford Hospital, Detroit, MI, May 20-21, 2008.
28. Visiting Professor: “Surgical Management of Spinal Neoplasms ” University of California San Francisco, California, March 25-26, 2009.
29. Visiting Professor: “Current Surgical Management of Spinal Neoplasms” University of Washington, Seattle, Washington, July 15, 2009.
30. Visiting Professor: “Surgical Management of Spinal Neoplasms” University of Florida, April 22, 2010.
31. Visiting Professor: “Primary and Metastatic Tumors of the Spine”, The Burdenko Neurosurgical Institute, Moscow, Russia, May 18-23, 2010.
32. Visiting Professor: MGH Grand Rounds, Boston, MA, May 26-27, 2010.
33. Visiting Professor: Cedars-Sinai Medical Center, Los Angeles, CA, November 9-10, 2010.
34. Visiting Professor: Cleveland Ohio Clinic, Cleveland, Ohio, January 19-21, 2011.
35. Visiting Professor: Montefiore Medical Center, Bronx, NY, February 6-7, 2011.
36. Visiting Professor: Rush University, Chicago, IL, June 22-24, 2011.
37. Visiting Professor: The University of Texas-SW Medical Center, Dallas, Texas, August 16-18, 2011.
38. Visiting Professor: Northwestern University, Chicago, IL, February 17, 2012.
39. Visiting Professor: West Virginia University, Healthcare, Morgantown, WV, September 19, 2012.
40. Visiting Professor: Mayo Clinic, Rochester, MN, November 11-12, 2012.
41. Guest Lecture Speaker: Tumor Course: Multimodal Treatment of Spinal Tumors, Seattle, WA, March 27-30, 2013. (Title: Current Surgical Management of Spinal Neoplasms)
42. Visiting Professor: Vanderbilt University Medical Center, Department of Neurosurgery, Grand Rounds, Nashville, TN, May 17, 2013.
43. Visiting Professor: University of Michigan, Ann Arbor, MI, August 29, 2013.
44. Visiting Professor: Columbia University Medical Center, New York, New York, October 9-10, 2013.
45. Visiting Professor: Duke University Medical Center, Durham, NC, July 8-9, 2014.
46. Visting Professor: Meridian Health Neuroscience Symposium, Red Bank, NJ, October 10, 2014.
47. Visting Professor: Charite Professor Event, Berlin, Germany, November 6-8, 2014.
48. Visiting Professor: Ohio State University, Columbus, Ohio, February 5, 2015.
49. Visiting Professor: Stanford University Medical Center, Stanford, California, November 5-6, 2015.
50. Visiting Professor: Brigham & Women’s Hospital, Boston, Massachusetts, September 8, 2016.
51. Visiting Professor: Yale School of Medicine, New Haven, Connecticut, June 2, 2017.
52. Visiting Professor: University of Vermont Spine Combined, Symposium, Orthopaedic Surgery Grand Rounds “En bloc resection for primary spinal tumors; Region Specific Challenges and Outcome” and Neurosurgery Grand Rounds, Recent Advances in Surgical Treatment of Spinal Metastases”, Burlington, VT, May 16 – 17, 2018.
53. Visiting Professor, Tufts Medical School, Department of Neurosurgery, “Advances in Surgical Treatment of Spinal Neoplasms” Tufts Medical Center, Boston, Massachusetts, November 8, 2018.
54. Visiting Professor, UCLA Health, Department of Neurosurgery, “Recent Advances in Surgical Management of Spinal Neoplasms”, UCLA Health, Los Angeles, California, March 5-6, 2019.
55. Visiting Professor, Geisinger Commonwealth School of Medicine, Department of Neurosurgery, “Recent Advances in Surgical Management of Spinal Neoplasms”, Geisinger Commonwealth School of Medicine, Danville, PA, April 4-5, 2019.
56. Visiting Professor, Mayo Clinic, 9th Annual Neurosurgery Research Symposium, “Predicting survival an dlocal recurrence in spinal and sacral chordomas” Mayo Clinic, Department of Neurologic Surgery, Rochester, MN, September 6-7, 2019.
57. Virtual Visiting Professor, Congress of Neurological Surgeons, Virtual Sessions, “Current Management of Metastatic Spinal Tumors,” Providence, RI, August 17, 2020.
58. Virtual Visiting Professor, USC Department of Neurosurgery, Grand Rounds, “Recent Advances in Surgical Management of Spinal Neoplasms”, Providence, RI, November 6, 2020.
59. Virtual Visiting Professor, Yale Clinical Neuroscience, Grand Rounds, “Evolution of Surgical Treatment of Spinal Neoplasms.” March 26, 2021.
60. Virtual Visiting Professor, Penn Medicine, Department of Neurosurgery, Grand Rounds, “Evolution of Surgical Treatment of Spinal Neoplasms.” April 15, 2021.
61. Virtual Visiting Professor, NYU Langone, Department of Orthopedic Surgery and Neurosurgery, Grand Rounds, “Evolution of Surgical Treatment of Spinal Neoplasms.” June 11, 2021.

62. Virtual Visiting Professor, Upstate Medical University, Department of Neurosurgery, Grand Rounds, "Evolution of Surgical Treatment of Spinal Neoplasms." June 30, 2021.
63. Virtual Visiting Professor, BIDMC, Harvard Medical School, Grand Rounds, "Recent Advances in Surgical Management of Spinal Neoplasms." July 28, 2021.
64. Virtual Visiting Professor, Duke Medical Center, Department of Neurosurgery, Duke Center for Brain and Spine Metastasis (DCSM), "Evolution of Surgical Treatment of Spinal Neoplasms." October 13, 2021.
65. Virtual Visiting Professor, University of Iowa, "Evolution of Surgical Treatment of Spinal Neoplasms." March 23, 2022.
66. Visiting Professor, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, "Modern Concepts in the Surgical Treatment of Spinal Chordoma." October 14, 2022.
67. Virtual Visiting Professor, University of Miami, Orthopaedic/Neurosurgery Grand Rounds, "Modern Concepts in Surgical Treatment of Spinal Chordomas." December 8, 2022.
68. Virtual Visiting Professor, Cedars-Sinai, Department of Neurosurgery Visiting Professors Lecture Series, "Modern Concepts in Surgical Treatment of Spinal Chordomas." December 9, 2022.
69. Virtual Visiting Professor, Mayo Clinic Enterprise Neurosurgery Residency Leadership Forum, Mayo Clinic Minnesota, Florida and Arizona Campuses. "Leadership in Spine Surgery" March 20, 2024.
70. Visiting Professor, II Simposio Internacional de Coluna do Instituto Orizonti, "Spinal Instability Neoplastic Score and its use for Treatment Selection in Patients with Metastatic Spinal Tumors," "Should Patients with Short Life Expectancy Be Denied Surgical Care," "Importance of Spinal Alignment in Primary and Metastatic Spine Tumors," "Radiation Therapy for the Treatment for Cervical Spine Metastasis," En Bloc Resection for The Treatment of Vertebral Bone Tumors: Surgical Indications," Brazil, May 15 – 19, 2024.
71. Visiting Professor, 2nd Annual BIDMC/BMC Neurosurgery Research Day, Boston University Chobanian & Avedisian School of Medicine, 72 East Concord Street, Boston, MA, June 12, 2024.
72. Visiting Professor, International Spinoplastic Symposium, "Primary tumors of the Cervical Spine" Bologna, Italy, September 19-20, 2024.
73. Visiting Professor, USC Keck School of Medicine, "Use of Enabling Technologies in Surgical Treatment of Primary Spinal Column Tumors," Los Angeles, California, January 23-24, 2025.
74. Visiting Professor, University of Saskatchewan, Department of Surgery, "Use of Enabling Technologies of Primary Spinal Column Tumors," May 8, 2025.
75. Visiting Professor, University of North Carolina Medical Center, Chapel Hill, N, Neurosurgery, "Use of enabling technologies in surgical resection of primary spinal column tumors" August 13, 2025.

Named Lectureships:

1. Rhoton Family Lecture, American Association of Neurological Surgeons, Miami, FL, April 16, 2012.
2. Henry Botterell Visiting Professorship: "Surgical Treatment of Spinal Cord Ependymomas" Toronto Western Hospital, Division of Neurosurgery, University of Toronto, Toronto, Ontario, Canada, October 30-31, 2006.
3. Visiting Professor: Raymond Swaya MD Lectureship, Houston, Texas, January 9, 2015.
4. Invited Speaker: 9th Annual Melvyn M. Gelch, M.D. Lectureship, Brown Medical School, June 3, 2015.
5. Visiting Professor: 2017 Hugh S. Wisoff Memorial Lecture, "Recent Advances in Surgical Management of Spinal Tumors" Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, March 22, 2017.
6. Visiting Professor: Desaussure Lectureship Series. "Recent Advances in Surgical Management of Spinal Neoplasms" University of Tennessee Health Science Center, Memphis, Tennessee, May 11, 2018.
7. Visiting Professor, University of Arkansas for Medical Sciences, Flanagan Boop Endowed Lectureship in Spinal Surgery, "Recent Advances in Surgical Management of Spinal Neoplasms", Little Rock, AK, September 21-22, 2018.
8. Visiting Professor: Robert E. Wharen Distinguished Lecture, "Recent Advances in Surgical Management of Spinal Neoplasms", Mayo Clinic, Jacksonville, FL, April 28-29, 2019.
9. Visiting Professor: Stephen J. Lipson Orthopaedic and Spine Lectureship, "Recent Advances in Surgical Management of Spinal Neoplasms", Brigham and Women's Hospital, Boston, MA, June 18-19, 2019.
10. Visiting Professor, Beth Israel Deaconess Medical Center, Department of Neurosurgery Grand Rounds, "Recent Advances in Surgical Management of Spinal Neoplasms", Beth Israel Deaconess Medical Center, July 28, 2021. Virtual.
11. Visiting Professor, Mark L. Claster Annual Lecture in Neurosurgical Leadership, Lenox Hill Hospital, New York, November 13 – 14, 2023.
12. Visiting Professor, Ibrahim Annual Lecture, "Current Surgical Treatment of Spinal Chordomas" University of Maryland, Medical Center, November 15-16, 2023.
13. Visiting Professor, The 3rd Annual Sherman C. Stein M.D. Lecturer and Visiting Professor, "Use of Enabling Technologies in the Management of Primary Spinal Column Tumors" Perelman School of Medicine, University of Pennsylvania, December 4-5, 2024.

14. Visiting Professor, 29th Annual Milam E. Leavens Distinguished Lectureship, "Surgical Treatment and Biology of Spinal and Sacral Chordomas", The University of Texas, MD Anderson Cancer Center, Houston, TX, January 16 – 17, 2025.

Other Educational Programs

1. Surgical management of metastatic tumors of the spinal column. The University of Texas M. D. Anderson Cancer Center, Brain Tumor Center, Partners in Excellence, January, 1996.
2. Management of metastatic spinal tumors. Clinical Oncology Grand Rounds, The University of Texas M. D. Anderson Cancer Center Continuing Medical Education, Houston, Texas, January, 1996.
3. Department of Neurosurgery Didactic Lecture Series: Metastatic spinal disease. The University of Texas M. D. Anderson Cancer Center, Houston, TX, December, 1998.
4. Management of metastatic spinal tumors. Rehabilitation/Physical Therapy Seminar Series, The University of Texas M. D. Anderson Cancer Center, Houston, TX, September 1999.
5. "Spinal Program: From Occiput to Coccyx" presented at Neurosurgical Oncology: The Decade Ahead sponsored by UT M. D. Anderson Cancer Center, January 26-28, 2001.
6. "Pain and Spine" moderator at Neurosurgical Oncology: The Decade Ahead sponsored by UT M. D. Anderson Cancer Center, January 26-28, 2001.
7. "Metastatic Spine Disease: Conventional Treatment Options" presented at the UT MD Anderson Cancer Center Grand Rounds, April 6, 2001.
8. "Surgical Management of Spinal Neoplasms" presented at the UT MD Anderson Cancer Center Radiation Oncology Grand Rounds, June 27, 2001.
9. Department of Neurosurgery Didactic Lecture Series: Sacral Tumors. The University of Texas M. D. Anderson Cancer Center, Houston, TX, January, 2002.
10. Department of Neuro-Oncology Core Curriculum Lecture: Management of Metastatic Tumors. The University of Texas M. D. Anderson Cancer Center, Houston, TX, January, 2002.
11. "Management of Sacral Tumors" presented at the Department of Surgical Oncology Grand Rounds at The University of Texas M. D. Anderson Cancer Center, February 20, 2002.
12. "Challenging Spine Tumor Cases" moderator at the American Association of Neurological Surgeons and Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves 18th Annual Meeting, Orlando, Florida, March 1, 2002.
13. "Surgical Treatment of Spinal Neoplasms" presented at Neurosurgical Grand Rounds at Johns Hopkins Hospital, January, 2003.
14. "Degenerative Lumbar Spine: Indications & New Approaches" presented for University of Michigan Medical School Office of Continuing Medical Education, Ann Arbor, Michigan, January 11, 2003.
15. "Neurosurgery of the Spine" presented at Surgical Grand Rounds in Hurd Hall at Johns Hopkins Hospital, April, 2003.
16. "Surgical Management of Spinal Neoplasms" presented at Neurosurgical Critical Care Unit (NCCU) at Johns Hopkins Hospital, June, 2003.
17. "Vertebral Augmentation/Fusion" moderator at the North American Spine Society 18th Annual Meeting, San Diego, California, October 25, 2003.
18. "Metastases to the Spine" Moderator at AO ASIF, Davos Platz, Switzerland, December 14-19, 2003.
19. "Bone graft harvesting set" interactive workshop at AO ASIF, Davos Platz, Switzerland, December 14-19, 2003.
20. "Management of Spinal Cord Ependymomas" presented at Neurosurgical Grand Rounds at Johns Hopkins Hospital, January, 2004.
21. "Surgical Management of Breast Mets to the Brain" presented at Current Concepts in the Multidisciplinary Management of Breast Cancer at Johns Hopkins Breast Center/The Institute for Johns Hopkins Nursing, April 2, 2004.
22. "Surgical Management of Breast Mets to the Spine" presented at Current Concepts in the Multidisciplinary Management of Breast Cancer at Johns Hopkins Breast Center/The Institute for Johns Hopkins Nursing, April 2, 2004.
23. "Spinal Cord Tumors" presented at Neurology Conference at the Johns Hopkins Hospital, May 18, 2004.
24. "Discogenic Back Pain" presented at the AO ASIF Advanced Concepts in the Management of Spinal Disorders, September 11, 2004.
25. "Neoplastic Disease" presented at the AO ASIF Residents' Forum. Annapolis, Maryland, October 1, 2004.
26. "Principles of Anterior Plating: Avoiding Complications, Dynamic vs. Static" and "Occipitocervical Fixation: Anatomy, Fixation Techniques and Alignment" present at the North American Spine Society Cervical Fixation Hands-On Course. Chicago, Illinois, January 21-22, 2005.
27. "Spinal Metastases" presented at NIH Oncology Residents Luncheon, February 22, 2005.
28. "En bloc Resection for Primary Spinal Neoplasms" presented at George Washington University, Washington, DC, February 22, 2005.

29. Guest Examiner, Spring Examinations of the American Board of Neurological Surgery, May 24-28, 2005.
30. "Surgical Management of Spinal Tumors" presented at Orthopaedic Surgery Grand Rounds at Johns Hopkins Hospital, June 9, 2005.
31. "Thoracolumbar Spine Trauma", Moderator and "Anterior Fusion: Techniques, Indications and Devices," Presenter at the AO Spine Advanced Concepts in Management of Spinal Disorders Course, Monterey, California, August 10-14, 2005.
32. En Bloc Resection for Primary Spinal Tumors," Spine Tumor Update Pre-Course, Presenter, "Lumbar Fusion", Concurrent Session, Co-Moderator and "Tumors and Reconstruction," Special Interest Poster Presentation, Co-Moderator at the North American Spine Society 20th Annual Meeting, Philadelphia, Pennsylvania, September 27-29, 2005.
33. "Kyphoplasty/Vertebroplasty for Low Back Pain" Section on Pain I – Low Back Pain Interventions: Where is the Evidence? Presenter and "Surgical Approaches to Primary Spine Tumors," Metastatic Spinal Disease: Roles of Radiation and Surgery, Presenter at the Quo Vadis Masters Video Symposium/CNS Annual Meeting, Boston, Massachusetts, October 10-12, 2005.
34. "Spinal Column Metastases Management," Moderator, Luncheon Seminar, Congress of Neurological Surgeons, 2016 Annual Meeting,, September 24 – 28, 2016.
35. Guest Examiner, Spring Examinations of the American Board of Neurological Surgery, October 29 – November 1, 2020.
36. "Spinal Tumor Surgery," Moderator, Luncheon Seminar, Congress of Neurological Surgeons, 2019 Annual Meeting, October 19 – 22, 2019.
37. Guest Examiner, Spring and Fall combined Examinations of the American Board of Neurological Surgery, May 3 – 5, 2019.
38. "SANS Live – Controversies – Complications in Neurotrauma" Virtual Meeting, November 17, 2020.
39. Student Neurosurgical Research Conference 2021, Virtual Conference, January 9, 2021.
40. Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves 18th Annual Meeting"
41. "Cervical and Lumbar Sacral Tumors, En bloc Resection with potential nerve root sacrifice" Massachusetts General Hospital Paralysis Center, March 8, 2022. Virtual
42. Guest Examiner, Spring Examinations of the American Board of Neurological Surgery, May 5-8, 2022.
43. Guest Examiner, Fall Examinations of the American Board of Neurological Surgery, October 24-26, 2024.

GRANTS

1. Principal Investigator, Spine Registry to Collect Outcome Measures Related to the Disease Status of Patients with Spine Disorders (PTRON) 2017- present
2. Principal Investigator, Metastatic Tumor Research and Outcome Network (MTRON): A multicenter prospective registry for the management of metastatic spine tumors. 2017-present
3. Intraoperative Imaging for Guidance, Patient Safety, and OR Quality Assurance, National Institutes of Health R01 Research Grant (R01-EB-017226) Co- Investigator (Siewerdsen PI) \$2,422,353 01-Sep-2014 to 31-Jul-2019
4. High-Performance 3D Imaging on a Mobile C-Arm (3) Industry Research Partnership – Siemens Healthcare, Special Products (XP) Division, Co- Investigator (Siewerdsen PI) \$1,393,100, 01-Oct-2015 to 30-Sep-2018
5. Principal Investigator, Spinal Reconstruction Using SYNTHES Spine SYNEXTM System Following Corpectomy/Vertebrectomy in Tumor Patients, Number CS01-138, 2001, \$250,000. Data Management Support for Ongoing Research, \$56,796 Completed
6. AO North America Spine Fellowship Educational Grant \$75,000 x 10 years. Completed
7. EBI Study: Prospective Randomized Study for Posterolateral Lumbar Fusion with Bone Stimulator, \$210,000
8. Surgical v.s Nonoperative Treatment of Metastatic Epidural Spinal Cord Compression, AOSpine North America, \$ 45,000 Completed
9. Predictors of Mortality and Morbidity in the Surgical Management of Primary Tumors of Spine, AOSpine North America, \$19,000 Completed
10. Interdisciplinary reliability of the Spinal Instability Neoplasm Score in radiologists and radiation oncologists, AOSpine International, \$10,700 Completed
11. Efficiency of Riluzole in Patients with Cervical Spondylitic Myelopathy Undergoing Surgical Treatment: Multi-Center Double-Blind Randomized Controlled Trial, \$34,000 Completed
12. National Neurosurgery Quality and Outcomes Database (N2QOD): A Prospective Registry for Quality Reporting Phase 1: The Lumbar Spine Module. Ongoing
13. Prospective Evaluation of Minimally Invasive Surgery vs Traditional Open Techniques in the Treatment of Metastatic Spine Tumors. Completed
14. CSSG Multi Center Retrospective and Observational Data Registry for Clinical and Radiographic Outcomes of Complex Spine Surgeries. Completed

Inventions

1. Gokaslan Z, Khanna A, Prince J, Siewerdsen JH “MR-LevelCheck - A Method for Automatic Localization of Structures in Projection Images” (D13076) Report of Invention Filed 5/12/2014 (2014)
2. Gokaslan Z, Otake Y, Siewerdsen JH, Wang A, “System and Method of Information Fusion using an Optical Projector in Medical Interventions” (D12264) Reported Invention Filed 12/12/2012 (2012)

Scientific Exhibitions

1. **Gokaslan ZL**, Leavens ME, Romsdahl MM: Surgical approaches to tumors involving the sacrum and iliac bone and adjacent structures. American College of Surgeons Scientific Exhibition Award, Clinical Congress, New Orleans, LA, October 22-27, 1995.

Science Projects

1. Principal Investigator, Administration of tumor necrosis factor-alpha induces increased monocyte recruitment following peripheral nerve crush injury, Protocol Number: MO02M452, Initiation date: 10/28/2002, Expiration date: 10/28/2003, Other Investigators: Ajay Mantha, Eric Amundson M.D., Betty Tyler, Status – Completed
2. Principal Investigator, Establishment of a novel intravertebral tumor model and efficacy study of controlled release chemotherapy polymers in rabbits, Protocol Number: RB02M413, Initiation date: 10/30/2002, Expiration date: 10/30/2003, Other Investigators: Eric Amundson M.D., Betty Tyler, Henry Brem M.D. (P.I.), Status – Completed
3. Principal Investigator, A graded model of aneurysm clip induced spinal cord compression injury in the mouse: examination of experimental methods through behavioral and histological considerations, Protocol Number: M002M450, Initiation date: 10/30/2002, Expiration date: 10/30/2003, Other Investigators: Ajay Mantha, Eric Amundson M.D., Betty Tyler, Status – Completed
4. Principal Investigator, Controlled release of osteoinductive growth factors for posterior lateral spine fusion in a rabbit model, Protocol Number: RB02M454, Initiation date: 01/20/2003, Expiration date: 01/20/2004, Other Investigators: Sherwin Hua M.D., Eric Amundson M.D., Paul Wang M.D., Betty Tyler, Status – Completed
5. Principal Investigator, Controlled release of osteoinductive growth factors within vertebrate bodies to augment pedicle screw pull-out resistance, Protocol Number: SH02M700, Initiation date: 02/05/2003, Expiration date: 02/05/2004, Other Investigators: Sherwin Hua M.D., Eric Amundson M.D., Paul Wang M.D., Betty Tyler, Status – Completed
6. Principal Investigator, Anterior Cervical Corpectomy Using Interbody Cage and Anterior Plate: Comparison of Autograft, Allograft, and Demineralized Bone Matrix, Protocol Number: SH02M700, Initiation date: 01/01/2004, Expiration date: 12/31/2004, Co-Investigator: Sherwin Hua M.D., Status – Completed.
7. Principal Investigator. Surgical versus Non-operative Treatment of Metastatic Epidural Spinal Cord Compression. (MESCC). NCT00634426. Quality of Life and Cost-Effectiveness Outcomes. Initiation: 8/7/2008-Completed.
8. Principal Investigator. Predictors of Mortality and Morbidity in the Surgical Management of Primary Tumors of the Spine: A Multi-center Retrospective Cohort Study with a Cross-Sectional. Initiation Date: 07/10/2012-Completed.

Other

1. Collaborator, Surgery versus stereotactic radiosurgery in the treatment of single brain metastases: a randomized prospective trial, NS 97-199, PI Frederick Lang, M.D., 1998-2002.
2. Collaborator, Surgery with Whole Brain Radiation Therapy versus whole Brain Radiation Therapy Alone in the Treatment of Multiple Brain Metastases: A Prospective Randomized Trial, ID98-028, PI Raymond Sawaya, M.D., 1998-2002.
3. Collaborator, Prospective, Randomized, Double Blind, Placebo-Controlled Trial of Prophylactic Phenytoin for Patients Undergoing Resection of Metastatic Brain Tumors, ID99-318, PI Frederick Lang, Not Activated, IRB Approved, 1999-2002.
4. Collaborator, Prospective, Randomized, Double Blind, Placebo-Controlled Trial of Prophylactic Phenytoin for Patients Undergoing Resection of Primary Brain Tumors, ID99-320, PI Dr. Frederick Lang, Not Activated, IRB Approved, 1999-2002.
5. Principal Investigator, Spinal cord compression by epidural neoplasm, Animal Protocol #9-99-08031.
6. Principal Investigator, The role of proteases and their inhibitors in spinal tumors, Protocol #LAB95-025, 1999-2001.
7. Principal Investigator, Spinal Reconstruction Using Synthes Spine Synex™ System Following Corpectomy/Vertebrectomy In Tumor Patients, Protocol ID01-442, 10/2001, \$250,000 (\$125,000/year), 2001-2002.
8. Principal Investigator, A Prospective Multi-Center, Randomized Controlled Study to Compare the Spinal Sealant System as an Adjunct to Sutured Dural Repair to Standard of Care Methods during Spinal Surgery, Protocol Number: DRS-05-001, Status: Completed.

UNIVERSITY TEACHING ROLES

Courses Taught

1. Management of primary spinal cord tumors; Controversies in spinal cord compression; Image-guided surgery “Mini Course”: Spinal applications. The University of Texas M. D. Anderson Cancer Center 40th Annual Clinical Conference: Cancer and the Central Nervous System, Houston, TX, March 1997.
2. Spinal instrumentation Review Course. The University of Texas M. D. Anderson, Houston, TX, January 1999.
3. Spinal Instrumentation Review Course. The University of Texas M. D. Anderson, Houston, TX, August 5, 2000.

Mentoring

Direct Supervision

Undergraduate and Allied Health Students

1. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Jake Kurian, 1999
2. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Tronya Hawkins, 1999

Medical Students

1. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Derek M. Schoppa, 1994-1995
2. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Jonathan Brett Gentry, 1995-1996 - (Currently, Chief Resident, Department of Neurosurgery, Baylor College of Medicine, Houston, TX)
3. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Vivek Bansal, BS, 1996
4. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Adriana Kaczraj, MS and Jared Stringer, MS, 1997
5. Mentor, Warren Alpert Medical School of Brown University, Department of Neurosurgery, Adriel Barrios-Anderson, 2019-2020.

Residents and Fellows

1. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Maarouf Hammoud, M.D., Neurosurgical-Oncology Fellow, 1993-1995
2. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Salim Kanaan, M.D., Neurosurgical-Oncology Fellow, 1993-1995
3. Mentor, UT M.D. Anderson Cancer Center, Department of Neurosurgery, David Eng, M.D., Ph.D., Neurosurgical-Oncology Fellow, 1995-1996. (Currently Assistant Professor of Neurosurgery, University of Syracuse, Syracuse, NY)
4. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Frederick Lang, M.D., Neurosurgical-Oncology Fellow, 1995-1996. (Currently Associate Professor of Neurosurgery, Department of Neurosurgery, UT M. D. Anderson Cancer Center, Houston, TX)
5. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Suresh Sankhla, M.D., Neurosurgical-Oncology Fellow, 1996-1997
6. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Emilio Nardone, M.D., Neurosurgical-Oncology Fellow, 1996-1997
7. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Haluk Berk, MD, Postgraduate, Dokuz Eylul University, Izmir, Turkey, 1996 (Currently Professor of Orthopedic Surgery Department of Orthopedic Surgery)
8. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Robert Jackson, M.D., Baylor Resident Neurosurgery Rotation, 1997
9. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Christopher Michael, M.D., Baylor Resident Neurosurgery Rotation. 1997
10. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Steve Toms, M.D., Neurosurgical-Oncology Fellow, 1997-1998. (Currently Assistant Professor of Neurosurgery, Chief, Director of Neurosurgical Oncology, University of Oregon, Portland, OR)
11. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Rick Jensen, M.D., Neurosurgical Resident, 1997-1998
12. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, M.A. Aladag, MD, Postgraduate, University of Istanbul, Malatya, Turkey, 1997 (Currently Professor of Neurosurgery, Chief of Staff, Taksim Hospital, Istanbul, Turkey)
13. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, James Garber, M.D., Neurosurgical Resident, 1997
14. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Andrew Sloan, M.D. Neurosurgical-Oncology Fellow, 1997-1998. (Currently Assistant Professor of Neurosurgery, Chief, Director of Neurosurgical Oncology, Wayne

State University, Detroit, MI)

15. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Summer Lal, M.D., Neurosurgical-Oncology Fellow, 1998-2000
16. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Julie E. York, MD, Postgraduate, University of Utah, 1998 (Currently Assistant Professor of Neurosurgery, Department of Neurosurgery, Loyola University, Chicago, Illinois)
17. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Michel LaCroix, M.D. Neurosurgical-Oncology Fellow, 1998-2000. (Currently Assistant Professor of Neurosurgery, UT Medical Branch at Galveston, Galveston, TX)
18. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Gery Hsu, M.D., Baylor Resident Neurosurgery Rotation, 1999
19. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Brent Alford, M.D., Baylor Resident Neurosurgery Rotation, 1999
20. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Peter Alexander, M.D., Baylor Resident Neurosurgery Rotation, 1999
21. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Hao Liu, MD, Postgraduate, Hospital of West China University of Medical Sciences, 1999 (currently Orthopedic Spinal Surgeon, Hospital of West China University of Medical Sciences)
22. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Daryl Fourney, M.D., Postdoctoral Fellow, Royal University Hospital, Saskatoon, Saskatchewan, Canada, 1999 and Neurosurgical-Oncology Fellow, 2001-2002
23. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Paul Holman, M.D., Neurosurgical Resident, 2000
24. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, John Dickerson, M.D., Baylor Resident Rotation, 2000
25. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Chris Kalthorn, M.D., Resident, 2000
26. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Erwin Lo, M.D., UT Medical Branch Galveston Resident Neurosurgery, 2000
27. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Jonathan Brent Gentry, M.D., Baylor Resident Neurosurgery Rotation, 2000
28. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Eric Marmor, M.D., Neurosurgical-Oncology Fellow, 2000-2001. Currently Assistant Professor of Neurosurgery, The Sir Mortimer B. Davis Jewish General Hospital, McGill University, Montreal, Canada.
29. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Yashail Vora, M.D., Neurosurgical-Oncology Fellow, 2000-2001
30. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Jeffery Weinberg, M.D., Neurosurgical-Oncology Fellow, 2000-2001. (Currently Assistant Professor of Neurosurgery, UT M. D. Anderson Cancer Center, Houston, TX)
31. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Zvi Cohen, M.D., Neurosurgical-Oncology Fellow, 2000-2001
32. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Fadi Hanbali, M.D., Neurosurgical-Oncology Fellow, 2000-2001. Currently Assistant Professor of Neurosurgery, UT Medical Branch at Galveston, Galveston, TX.
33. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Tony Maioriello, M.D., UTMB Galveston Resident Neurosurgery Rotation, 2001
34. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Remi Nader, M.D., UTMB Galveston Resident Neurosurgery Rotation, 2001
35. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Jean Paul Wolinsky, M.D., Baylor Resident Neurosurgery Rotation, 2001
36. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Vijayabalan Balasingam, M.D., Neurosurgical-Oncology Fellow, 2001-2002
37. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Sujit Prabu, M.D., Neurosurgical-Oncology Fellow, 2001-2002
38. Mentor, UT M. D. Anderson Cancer Center, Department of Neurosurgery, Joseph Shehadi, M.D., Neurosurgical-Oncology Fellow, 2001-2002
39. Mentor, Johns Hopkins University, Department of Neurosurgery, Matt Lesniak, M.D., Chief Residency, 2002-2003.
40. Mentor, Johns Hopkins University, Department of Neurosurgery, Philip Jay Storm, M.D., Chief Residency, 2002-2003.
41. Mentor, Johns Hopkins University, Department of Neurosurgery, Dean Chou, M.D., Chief Residency, 2003-2004.
42. Mentor, Johns Hopkins University, Department of Neurosurgery, Jack Moriarity, M.D., Chief Residency, 2002-2003.
43. Mentor, Johns Hopkins University, Department of Neurosurgery, Amer Samdani, Chief Residency, 2003 – 2004.
44. Mentor, Johns Hopkins University, Department of Neurosurgery, Paul Wang, Chief Residency, 2003 – 2004.

45. Mentor, Johns Hopkins University, Department of Neurosurgery, Ira Garonzik, M.D., Chief Residency, 2003-2004.
46. Mentor, Johns Hopkins University, Department of Neurosurgery, Ira Garonzik, M.D., Spine Instructorship, 2004-2005.
47. Mentor, Johns Hopkins University, Department of Neurosurgery, Jean-Paul Wolinsky, M.D., Spine Instructorship, 2004-2005.
48. Mentor, Johns Hopkins University, Department of Neurosurgery, Timothy Witham, M.D., Spine Instructorship, 2005-2006.
49. Mentor, Johns Hopkins University, Department of Neurosurgery, Yevgeniy Khavkin, M.D., Spine Instructorship, 2005-2006.
50. Mentor, Johns Hopkins University, Department of Neurosurgery, Jacob Schlosser, M.D., Chief Residency, 2005-2006.
51. Mentor, Johns Hopkins University, Department of Neurosurgery, Michael Schwarz, M.D., Chief Residency, 2005-2006.
52. Mentor, Johns Hopkins University, Department of Neurosurgery, Carlos Bagley, M.D., Chief Residency, Spine Fellowship, 2005-2007.
53. Mentor, Johns Hopkins University, Department of Neurosurgery, Ali Bydon, M.D., Spine Instructorship, 2006-2007.
54. Mentor, Johns Hopkins University, Department of Neurosurgery, Daniel Sciubba, M.D., Chief Residency, Spine Fellowship, 2006-2008.
55. Mentor, Johns Hopkins University, Department of Neurosurgery, Patrick Hsieh, M.D., Spine Instructorship, 2007-2008.
56. Mentor, Johns Hopkins University, Department of Neurosurgery, John Chi, M.D., Spine Instructorship, 2007-2008.
57. Mentor, Johns Hopkins University, Department of Neurosurgery, Ibrahim Omeis, M.D., Spine Instructorship, 2007- 2008
58. Mentor, Johns Hopkins University, Department of Neurosurgery, Oren Gottfried, M.D., Spine Instructorship, 2007- 2008
59. Mentor, Johns Hopkins University, Department of Neurosurgery, Michelle Clarke, M.D., Spine Instructorship, 2009-2010.
60. Mentor, Johns Hopkins University, Department of Neurosurgery, Reza Yessari, M.D., Spine Instructorship, 2009-2010.
61. Mentor, Johns Hopkins University, Department of Neurosurgery, Marcella Madera, M.D., Spine Instructorship, 2010-2011.
62. Mentor, Johns Hopkins University, Department of Neurosurgery, Ilya Laufer, M.D., Spine Instructorship, 2010-2011.
63. Mentor, Johns Hopkins University, Department of Neurosurgery, Ryan Kretzer, M.D., Spine Instructorship, 2011-2012.
64. Mentor, Johns Hopkins University, Department of Neurosurgery, Ali Baaj, M.D., Spine Instructorship, 2011-2012.
65. Mentor, Johns Hopkins University, Department of Neurosurgery, Paul Kaloostian, M.D., Spine Instructorship, 2012-2013.
66. Mentor, Johns Hopkins University, Department of Neurosurgery, Kristophe Karami, D.O., M.D., Spine Instructorship, 2012-2013.
67. Mentor, Johns Hopkins University, Department of Neurosurgery, Ali Ozturk, M.D., Spine Instructorship, 2013-2014.
68. Mentor, Johns Hopkins University, Department of Neurosurgery, Ankit Mehta, M.D., Spine Instructorship, 2013-2014.
69. Mentor, Johns Hopkins University, Department of Neurosurgery, Afman Desai, M.D., Spine Instructorship, 2013-2014.
70. Mentor, Johns Hopkins University, Department of Neurosurgery, Mo Bydon, M.D., Spine Fellowship, 2014-2015.
71. Mentor, Johns Hopkins University, Department of Neurosurgery, Benjamin Elder, M.D., Spine Fellowship, 2014-2015.
72. Mentor, Johns Hopkins University, Department of Neurosurgery, Sheng-fu (Larry) Lo, M.D., Spine Fellowship, 2014-2015.
73. Mentor, Johns Hopkins University, Department of Neurosurgery, Jared Marks, M.D., Spine Instructorship, 2015-2016.
74. Mentor, Johns Hopkins University, Department of Neurosurgery, Alia Hdeib, M.D., Spine Instructorship, 2015-2016.
75. Mentor, Johns Hopkins University, Department of Neurosurgery, Jay Rhee, M.D., Spine Instructorship, 2015-2016.
76. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Hesham Soliman, M.D., Complex Fellowship, 2016-2017.
77. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Jared Fridley, M.D., Complex Spine Fellowship, 2016-2017.
78. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, David Choi, M.D., Chief Resident, 2016-2017.
79. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, David Choi, M.D., Complex Spine Fellowship, 2017-2018.
80. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Michael Galgano, M.D., Complex Spine Fellowship, 2017-2018.
81. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Thomas Kosztowski, M.D., Complex Spine Fellowship, 2017-2018.
82. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Radmehr Torabi, M.D., Chief Resident, 2017-2018.
83. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Sanjay Konakondla, M.D., Complex Spine Fellowship, 2018-2019
84. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Sean Barber, M.D., Complex Spine Fellowship, 2018-2019
85. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Jonathan Nakhla, M.D., Complex Spine Fellowship, 2018-2019

86. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Francesco Pucci, M.D., Chief Resident, 2018-2019
87. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Joaquin Q. Camara, M.D., Complex Spine Fellowship, 2019-2020
88. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Tianyi Niu, M.D., Complex Spine Fellowship, 2019-2020
89. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Krisztina Moldovan, M.D., Chief Resident, 2019-2020
90. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Kyle Mueller, M.D., Complex Spine Fellowship, 2020-2021
91. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Zain Boghani, M.D., Complex Spine Fellowship, 2020-2021
92. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Xun Li, M.D., Chief Resident, 2020-2021
93. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Jose Fernandez Abinader, M.D., Complex Spine Fellowship, 2021-2022
94. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Patricia Zadnik Sullivan, M.D., Complex Spine Fellowship, 2021-2022
95. Mentor, Rhode Island Hospital/Brown Medical School, Department of Neurosurgery, Sohail Syed, M.D., Chief Resident, 2021-2022

OTHER PROFESSIONAL ACCOMPLISHMENTS

Presentations

1. FDA meeting regarding the use of investigational products of Synthes Spine™ in the treatment of spinal tumors with corpectomy/vertebrectomy and reconstruction. Washington, DC, March 6, 2000.

Other

1. AO ASIF Continuing Education Faculty Retreat. Discussion of details regarding the future educational courses and symposia to be organized by AO North America, Colorado Springs, CO, May 19-21, 2000.
2. Pictured in the Messenger receiving The University of Texas M. D. Anderson Cancer Center Faculty Achievement Award in Patient Care for 2001. Messenger 31, (1):2, 2002.
3. AO ASIF Continuing Education Faculty Retreat. Sagamore, NY, August, 2002.
4. Featured in Brain Waves Publication of Johns Hopkins University School of Medicine, 2002.
5. Johns Hopkins Medicine Leadership Development Program, Johns Hopkins University School of Medicine, December, 2006.
6. Harvard Leadership Development Conference, Harvard School of Public Health, October 19-31, 2008.
7. NREF Scientific Advisory Committee Member 2009- present
8. CNS/AANS, Moderator for the 2010 Annual Meeting, Philadelphia, PA, April 30 – May 5, 2010.
9. World Spinal Column Society, Visiting Board Member, 2014 – 2017.
10. Scholars in Residence, American Board of Neurological Society 2017-2021.