



CURRICULUM VITAE

Ziya L. Gokaslan, M.D., F.A.C.S.

Signature

DEMOGRAPHIC INFORMATION

Current Appointments

Primary Appointment

Donlin M. Long Professor
Professor of Neurosurgery, Oncology and Orthopaedic Surgery
Vice Chairman, Department of Neurosurgery
Director, Neurosurgical Spine Program
Director, Neurosurgical Spine Metastasis Center
Department of Neurosurgery
Johns Hopkins University
Baltimore, Maryland

Personal Data

Citizenship and Visa Status

United States

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Education and Training

Degree-Granting Education

Istanbul Faculty of Medicine, University of Istanbul, Istanbul, Turkey, M.D., 1983, Doctor of Medicine

Postgraduate Training

Fellow, Clinical Spinal Surgery, Department of Orthopedics/Neurosurgery, New York University Medical Center, New York, NY, Dr. Paul Cooper, 1993-1994

Resident, Department of Neurosurgery, Baylor College of Medicine, Houston, TX, Dr. Robert Grossman, 1988-1993

Fellow, Clinical Research, Neurotraumatology, Department of Neurosurgery, Baylor College of Medicine, Houston, TX, Dr. Robert Grossman, 1986-1988

Intern, General Surgery, Baylor College of Medicine, Houston, TX, Dr. Charles McCollum, 1985-1986

Fellow, Post-Doctoral Clinical Research, Department of Psychiatry, Sleep Disorder and Research Center, Baylor College of Medicine, Houston, TX, Dr. Ismet Karacan, 1984-1985

Professional Experience

Academic Appointments

Clinical Assistant Professor of Neurosurgery, Baylor College of Medicine, Houston, TX, 1994-2002

Assistant Professor of Neurosurgery, Department of Neurosurgery, UT M. D. Anderson Cancer Center, Houston, TX, 1994-2000

Associate Professor of Neurosurgery (tenured), Department of Neurosurgery, UT M. D. Anderson Cancer Center, Houston, TX, 2000-2002

Professor of Neurosurgery, Oncology and Orthopaedic Surgery, Department of Neurosurgery, Johns Hopkins University School of Medicine, Baltimore, MD. 2002-Present

Academic Administrative Appointments/Responsibilities

Vice-Chairman, Department of Neurosurgery; Director, Neurosurgical Spine Program, Johns Hopkins University School of Medicine, Baltimore, MD, 2002-Present

Deputy Chair, Department of Neurosurgery, UT M. D. Anderson Cancer Center, Houston, TX, 2000-2002

Chief, Spine Program, Department of Neurosurgery, UT M. D. Anderson Cancer Center, Houston, TX, 1999-2002

Chief, Neurosurgery Clinic, Department of Neurosurgery, UT M. D. Anderson Cancer Center, Houston, TX, 1995-1996

RESEARCH ACTIVITIES

Publications

Peer-reviewed scientific articles

1. Robertson CS, Narayan RK, **Gokaslan ZL**, Pahwa R, Grossman RG: Cerebral arteriovenous oxygen difference as an estimate of cerebral blood flow in comatose patients. *J Neurosurg* 70:222-230, 1989.
2. Robertson CS, Narayan RK, Contant CF, Grossman RG, **Gokaslan ZL**, Pahwa R, Caram PC, Bray RS, Sherwood AM: Clinical experience with a continuous monitor of intracranial compliance. *J Neurosurg* 71:673-680, 1989.
3. Robertson CS, Contant CF, **Gokaslan ZL**, Narayan RK, et al: Cerebral blood flow, AVDO2 and neurosurgical outcome in head-injured patients. *J Neurol Neurosurg Psych* 55(7): 594-603, 1992.
4. Mawad ME, Mawad JK, Cartwright J, **Gokaslan ZL**: Long-term histopathologic changes in canine aneurysms embolized with Guglielmi detachable coils. (GDC). *Am J Neuroradiol* 16:7-13, 1995.
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, Monahan S, **Gokaslan ZL**, Fuller GN, Stetler-Stevenson WG, Rao VH, Liotta LA, Nicolson GL, Sawaya R: Expression and localization of 92-kDa type IV collagenase in human astrocytomas in vivo. *Clin Exp Metastasis* 14:12-18, 1996.
7. Sivaparvathi 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* 14:27-34, 1996.
8. Yamamoto M, Mohanam S, Sawaya R, Fuller GN, **Gokaslan ZL**, Seiki M, Sato H, Liotta LA, Rao JS: Differential expression of membrane-type matrix metalloproteinase with gelatinase A activation in human malignant brain tumor, both in vivo and in vitro. *Cancer Res* 56:384-392, 1996.
9. Chintala SK, Sawaya R, Fuller GN, **Gokaslan ZL**, Rao JS: Immunolocalization of ECM proteins in human glioma, both in vitro and in vivo. *Cancer Lett* 107-114, 1996.
10. Rao JS, Sawaya R, **Gokaslan ZL**, Yung WKA, Goldstein GW, Lattera J: Modulation of serine proteinases and metalloproteinases during morphogenic glial-endothelial interactions. *J Neurochem* 66:1657-1664, 1996.
11. Sivaparvathi M, Sawaya R, **Gokaslan ZL**, Chintala SK, Go Y, Rao J: Expression of cathepsin D during the progression of human gliomas. *Neurosci Lett* 208:1-4, 1996.
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* 102:57-63, 1996.
13. Rao JS, Yamamoto M, **Gokaslan ZL**, Fuller GN, Stetler-Stevenson WG, Rao VH, Liotta LA, Nicolson GL, Sawaya R: 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.
14. Sawaya R, Yamamoto M, **Gokaslan ZL**, Stetler-Stevenson WG, Mohanam S, Fuller GN, McCutcheon IE, Nicolson GL, Rao JS: Expression and localization of 72-kDa type IV collagenase (MMP-2) in human malignant gliomas in vivo. *Clin Exp Metastasis* 14:35-42, 1996.
15. Chintala SK, **Gokaslan ZL**, Go Y, Sawaya R, Rao JS: Role of extracellular matrix proteins in regulation of human glioma cell invasion in vitro. *Clin Exp Metastasis* 14: 358-366, 1996.
16. 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 Letter* 103:201-208, 1996.
17. Sivaparvathi M, Sawaya R, **Gokaslan ZL**, Shrvan K, Chintala SK, Go Y, Rao JS: Expression and the role of cathepsin H in human glioma progression and invasion. *Cancer Letter* 104:121-126, 1996.
18. Go Y, Chintala SK, Oka K, **Gokaslan ZL**, Sawaya R, Rao JS: Invasive pattern of lac-Z-transfected human glioblastoma cells in nude mice brain. *Cancer Lett* 110:225-231, 1996.
19. 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* 15:400-409, 1997.
20. 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* 14:1351-1359, 1997.
21. Go Y, Chintala SK, Rayford A, Gagercas E, Ali-Osman F, Venkaiah B, **Gokaslan ZL**, Sawaya R, Nicolson GL, Rao JS: Cisplatin but not BCNU inhibits urokinase type plasminogen activator levels in human glioblastoma cell lines in vitro. *Clin Exp Metastasis* 15:447-452, 1997.
22. **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* 10:299-303, 1997.
23. 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 Carinog* 20:355-365, 1997.
24. Go Y, Chintala SK, Mohanam S, **Gokaslan ZL**, 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 antigens uPAR vectors. *Clin Exper Metastasis* 15:440-446, 1997.
25. Walsh GL, **Gokaslan ZL**, McCutcheon IE, Mineo MT, Yasko A, Swisher SG, Schrupp DS, Nesbitt JC, Putnam JB, Roth JA: Anterior approaches to the thoracic spine in patients with cancer; indications and results. *Ann Thorac Surg* 64:1611-1618, 1997.
26. **Gokaslan ZL**, Romsdahl MM, Kroll SS, Walsh GL, Gillis TA, Wildrick DM, Leavens ME: Total sacrectomy for malignant neoplasms with Galveston L Rod reconstruction. Technical note. *J Neurosurg* 87:781-787, 1997.

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 Bio Chem* 22:13545-13551, 1998.
28. **Gokaslan ZL**, York JE, Walsh GL, McCutcheon IE, Lang FF, Putnam JB, Wildrick DM, Swisher SG, Abi-Said D, Sawaya R: Transthoracic vertebrectomy for metastatic spinal tumors. *J Neurosurg* 89:599-609, 1998.
29. **Gokaslan ZL**, Chintala SK, York JE, Boyapati V, Jasti S, Sawaya R, Fuller GF, 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* 16:721-728, 1998.
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31. Escalante C, Raad I, **Gokaslan ZL**, Fuller GF, Garcia R: Cerebellar Mass: Is it malignancy or histoplasmosis? *Primary Care & Cancer* 18:35-40, 1998.
32. Sawaya R, Go Y, Kyritsis AP, Uhm J, Venkajah 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.
33. York JE, Berk RH, Fuller GF, Rao JS, Abi-Said D, Wildrick DM, **Gokaslan ZL**: Chondrosarcoma of the spine: 1954 to 1997. *J Neurosurg (Spine I)* 90:73-78, 1999.
34. 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* 44(1):74-80, 1999.
35. Mohanam S, Go Y, Sawaya R, Venkaiah B, Mohan P, 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* 14:169-174, 1999.
36. Jackson RJ, **Gokaslan ZL**: Occipitocervicothoracic fixation for spinal instability in patients with neoplastic processes. *J Neurosurg* 91(Spine 1):81-89, 1999.
37. 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 Spine* 91(Spine 1):74-80, 1999.
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* 59:3369-3373, 1999.
39. Gandhi S, Walsh GL, Komaki R, **Gokaslan ZL**, Nesbitt JC, Putnam JB, Roth JA, Merriman KW, McCutcheon IE, Minden FR, Swisher SG: A multidisciplinary surgical approach to superior sulcus tumors with vertebral invasion. *Ann Thorac Surg* 68(5):1778-1784; discussion 1784-1785, 1999.
40. York JE, Stringer J, Ajani JA, Wildrick DM, **Gokaslan ZL**: Gastric cancer and metastasis to the brain. *Ann Surg Oncol* 6:771-776, 1999.
41. **Gokaslan ZL**, Aladag MA, Ellerhorst JA: Melanoma metastatic to the spine: a review of 133 cases. *Melanoma Res* 10:78-80, 2000.
42. Jackson RJ, **Gokaslan ZL**: Spinal-pelvic fixation in patients with lumbosacral neoplasms. *J Neurosurg* 92(Spine 1):61-70, 2000.
43. Miller DJ, Lang FF, Walsh GL, Abi-Said D, Wildrick DM, **Gokaslan ZL**: Coaxial double-lumen methylmethacrylate reconstruction in the anterior procedures of the cervical and upper thoracic spine following tumor resection. *J Neurosurg (Spine 2)* 92:181-190, 2000.
44. Chang DW, Lee JE, **Gokaslan ZL**, Robb GL: Closure of hemicorporectomy with bilateral subtotal thigh flaps. *Plast Reconstr Surg* 105(5):1743-1746, 2000.
45. Fourny DR, Fuller GN, **Gokaslan ZL**: Intraspinial extradural myxopapillary ependymoma of the sacrum arising from the filum terminale externa. *J Neurosurg (Spine 2)* 93:322-326, 2000.
46. Fourny DR, Abi-Said D, Lang FF, McCutcheon IE, **Gokaslan ZL**: The use of pedicle screw fixation in the management of malignant spinal disease; Experience in 100 consecutive procedures. *J Neurosurg (Spine 1)* 94:25-37, 2001.
47. 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.
48. Jackson RJ, Loh SA, **Gokaslan ZL**: Metastatic renal cell carcinoma of the spine: Surgical treatment and results. *J Neurosurg (Spine 1)* 94:18-24, 2001.

49. Fourney DR, Abi-Said D, Rhines L, 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. *J Neurosurgery (Spine 2)* 94, 232-244, 2001.
50. Michael CB, **Gokaslan ZL**, DeMonte F, McCutcheon IE, Abi-Said D, Sawaya R, Lang FF: Surgical resection of calvarial metastases overlying dural sinuses. *Neurosurgery* 48(4): 745-755, 2001.
51. Lacroix M, Abi-Said D, Fourney DR, **Gokaslan ZL**, Shi W, DeMonte F, Lang FF, McCutcheon IE, Hassenbusch SJ, Holland E, Michael C, Miller D, Sawaya R: A multivariate analysis of 416 patients with glioblastoma multiforme: prognosis, extent of resection and survival. *J Neurosurg* 95:190-198, 2001.
52. Marmor E, Rhines LD, **Gokaslan ZL**: Case report and technical note of a total en bloc lumbar spondylectomy. *J Neurosurg (Spine 2)* 95:264-269, 2001.
53. Lang FF, Olansen NE, DeMonte F, **Gokaslan ZL**, Holland EC, Kalhorn C, Sawaya R: Surgical resection of intrinsic insular tumors: complication avoidance. *J Neurosurg* 95:638-650, 2001.
54. Hachem R, Afif C, **Gokaslan ZL**, Raad I: Successful treatment of vancomycin-resistant *enterococcus* meningitis with linezolid. *EJ Clin Mb & Inf Dis* 20(6):432-434, 2001.
55. Liebross RH, Starkschall GS, Wong PF, Horton J, **Gokaslan ZL**, Komaki R: The effect of titanium stabilization rods on spinal cord radiation dose. *Med Dosimetry* 27,1: 21-24, 2002.
56. Marmor E, Fourney DR, Rhines LD, Skibber JM, Fuller GN, **Gokaslan ZL**: Case Report: Sacrococcygeal Ganglioneuroma. *J Spinal Disorders* . 15: 265-268, 2002.
57. Lin PP, Guzel VB, Maura MF, Benjamin RS, Weber KL, Morello FA, **Gokaslan ZL**, Yasko AW: Long-term follow-up of patients with giant cell tumor of the sacrum treated with selective arterial embolization. *Cancer* 95(6): 1317-25, 2002.
58. Fourney DR, Prabhu SS, Cohen ZR, **Gokaslan ZL**, Rhines LD: Early sacral stress fracture after reduction of spondylolisthesis and lumbosacral fixation: case report. *Neurosurgery* 51(6): 1507-10; discussion 1510-1, 2002.
59. Hanbali F, Marmor E, Suki D, Rhines LD, Weinberg JS, McCutcheon IE, Suk I, **Gokaslan ZL**: Spinal Cord Ependymoma: Radical surgical resection and outcome. *Neurosurgery*. 51(5): 1162-72; discussion 1172-4, 2002.
60. 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* 97(3 suppl): 386-92, 2002.
61. Rahlfs TF, Ferson DZ, Law BK, **Gokaslan ZL**, Arens J: Pulse oximeter malfunction caused by the Stealth Station system during neurosurgery. *Anesthesiology* 96: A597, 2002.
62. 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* 98(1 Suppl):21-30, 2003.
63. 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*. 16(1): 108-11, 2003.
64. Fourney DR, York JE, Cohen ZR, Suki D, Rhines LD, **Gokaslan ZL**: Management of atlantoaxial metastases with posterior occipitocervical stabilization. *J Neurosurg* 98(2 Suppl):165-70, 2003.
65. Fourney DR, **Gokaslan ZL**: Spinal instability and deformity due to neoplastic conditions. *Neurosurg Focus* 14(1):Article 8, 2003.
66. Fourney DR, **Gokaslan ZL**: Current management of sacral chordoma. *Neurosurg Focus* 15(2):Article 9, 2003.
67. Fourney DR, **Gokaslan ZL**: Thoracolumbar spine: surgical treatment of metastatic disease. *Curr Opin Orthop* 14:144-152, 2003.
68. Ryken TC, Eichholz KM, Gerszten PC, Welch WC, **Gokaslan ZL**, RESnick DK: Evidence-based review of that surgical management of vertebral column metastatic disease. *Neurosurg Focus* (2003): Nov 15; 15 (5).
69. Yao KC, Boriani S, **Gokaslan ZL**, Sundaresan N: En bloc spondylectomy for spinal metastases: a review of techniques. *Neurosurg Focus* (2003); 15(5).
70. 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 (Spine 1)* 100:75-79, 2004.
71. Gallia GL, Weiss N, Campbell JN, McCarthy EF, Tufaro AP, **Gokaslan ZL**. Vertebral synovial chondromatosis. *J Neurosurg* 2004; 2: 211-218.
72. Hentschel S, Rhines L, Wong F, **Gokaslan Z**, McCutcheon I: Subarachnoid-pleural fistula after resection of thoracic tumors. *J Neurosurg: Spine* (2004) 100:332-336.

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74. Fourney D, **Gokaslan ZL**: Anterior approaches for thoracolumbar metastatic spine tumors. *Neurosurg Clin N Am*: October 2004; 15:4
75. Schmidt MH, Fourney DR, **Gokaslan ZL**. Metastatic spine disease. *Neurosurg Clin N Am*. 2004 Oct;15(4):xv-xvi. No abstract available.
76. Cohen ZR, Fourney DR, **Gokaslan ZL**, Walsh GL, Rhines LD: Anterior stabilization of the upper thoracic spine via an “interaortocaval subinnominate window.” *J Spinal Disord Tech*. December 2004; 17(6): 543-8.
77. Bagley CA, Dudukovich KJ, Wolinsky JP, **Gokaslan ZL**. Surgical Management of Cervical Spinal Epidural Abscesses. *Operative Techniques in Neurosurgery*. December 7(4):193-198, 2004.
78. Bagley CA, Dudukovich KJ, Wolinsky JP, **Gokaslan ZL**. Surgical Management of Lumbrosacral Spinal Epidural Abscesses. *Operative Techniques in Neurosurgery*. December 7(4):206-211, 2004
79. Khanna AJ, Shindle MK, Wasserman BA, **Gokaslan ZL**, Gonzales RA, Buchowski JM, Riley LH III: Use of magnetic resonance imaging in differentiating compartmental location of spinal tumors. *Am J Orthop* 34(10):472-476, 2005.
80. Marco, RA, Gentry, JB, Rhines LD, Lewis VO, Wolinsky JP, Jaffe N, **Gokaslan ZL**: Ewing’s Sarcoma of the Mobile Spine. *Spine* 2005; 30(7):769-773.
81. Fourney D, **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 Koint Section Meeting on Disorders of the Spine and Peripheral Nerves. *J Neurosurg Spine*: January 2005; 2: 40-49.
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83. 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): 303-307.
84. Holman P, Suki D, McCutcheon I, Rhines L, **Gokaslan ZL**: Surgical Management of Metastatic Disease of the Lumbar Spine: Experience with 139 Patients. *J Neurosurg: Spine* 2; May 2005:550-563.
85. Brastianos P, Pradilla G, McCarthy E, **Gokaslan ZL**: Solitary thoracic osteochondroma: case report and review of the literature. *Neurosurgery*. 2005 Jun; 56: E1379.
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89. Raza SM, Anderson WS, Eberhart CG, Wolinsky JP, **Gokaslan ZL**: The application of surgical cordectomy in the management of an intramedullary-extramedullary atypical meningioma: case report and literature review. *J Spinal Disord Tech*. 2005 Oct; 18(5): 449-54.
90. 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*. 2005 Oct;34(10):472-6 Review.
91. 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.
92. 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.
93. McPherson CM, Suki D, McCutcheon IE, **Gokaslan ZL**, Rhines LD, Mendel E: Metastatic Disease from Spinal Chordoma: 10-Year Experience at the M.D. Anderson Cancer Center. *J Neurosurgery:Spine*. 2006 Oct; 5(4):277-80.

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Abstracts

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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).
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60. 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.*
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62. 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.*
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69. Matthew L. McGirt, M.D., Giannina L. Garces Ambrossi, B.S., Frank J. Attenello, M.S., Jon Weingart, M.D., Daniel Sciubba, M.D., George Jallo, M.D. Title: *Outcome of Chiari-associated syringomyelia after hindbrain decompression in children: Analysis of 49 consecutive cases*
70. Matthew J. McGirt, M.D., Giannina L. Garces Ambrossi, B.S., Kaisorn L. Chaichana, M.D., Frank J. Attenello, M.S., Daniel M. Sciubba, M.D., **Ziya L. Gokaslan, M.D.**, George I Jallo, M.D. *Spinal deformity after resection of cervical intramedullary spinal cord tumors in children*
71. Giannina L. Garces Ambrossi, B.S.; Matthew j McGirt, M.D.; Scott L. Parker, B.S.; Vivek A. Mehta, B.S.; Daniel M. Sciubba, M.D.; Timothy F. Witham, M.D.; **Gokaslan L. Ziya, M.D.**, JP Wolinsky, M.D. *Trans-laminar versus pedicle screw fixation of C2: Comparison of surgical morbidity and accuracy of 313 consecutive screws*
72. Giannina L. Garces Ambrossi, B.S.; Matthew j McGirt, M.D.; Daniel M. Sciubba, M.D.; Timothy F. Witham, M.D.; Ali Bydon, M.D.; JP Wolinsky, M.D.; George Jallo, M.D.; **Ziya L. Gokaslan, M.D.** *Factors associated with progression-free survival and long-term neurological outcome after resection of intramedullary spinal cord tumors in adults: Analysis of 101 consecutive cases*
73. Matthew J. McGirt, M.D.; Giannina L. Garces Ambrossi, B.S.; Daniel J. Sciubba, M.D.; Ali Bydon, M.D.; JP Wolinsky, M.D.; Timothy Witham, M.D.; **Ziya L. Gokaslan, M.D.**, George I. Jallo, M.D. *Spinal deformity following laminoplasty versus laminectomy for resection of intradural spinal tumors: Analysis of 238 patients.*
74. *The AOSpine North America Cervical Spondylotic Myelopathy Study: Two Year Surgical Outcomes of a Prospective Multicenter Study In 280 Patients.* M. Fehlings, B. Kopjar, P. Arnold, S. T. Yoon, A. Vaccaro, C. Shaffrey, D. Brodke, M. Janssen, J. Chapman, R. Sasso, E. Woodard, M. Dekutoski, **Z. Gokaslan**, C. Bono. *Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 16-21, 2010. [Oral Presentation: Top Ten Oral Presentation Category].*
75. *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.* M.G Fehlings, B. Kopjar, A.R. Vaccaro, P.M. Arnold, C. Fisher, **Z. Gokaslan**, J. Schuster, M. Dekutoski. *World Spinal Column Society, World Spine V Meeting, Santorini, Greece, May 7-9, 2010 [Oral Presentation].*
76. *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.* M.G Fehlings, B. Kopjar, A.R. Vaccaro, P.M. Arnold, C. Fisher, **Z. Gokaslan**, J. Schuster, M. Dekutoski. *Scoliosis Research Society (SRS) Annual Meeting, Kyoto, Japan, September 21-24, 2010 [Oral Presentation].*
77. *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.* M.G Fehlings, B. Kopjar, A.R. Vaccaro, P.M. Arnold, C. Fisher, **Z. Gokaslan**, J. Schuster, M. Dekutoski. *North American Spine Society 2010 Annual Meeting, Orlando, FL, October 5-9, 2010 [Oral Presentation].*
78. *The Effect of Surgery on Health Related Quality of Life and Functional Outcome in Patients with Metastatic Epidural Spinal Cord Compression MESSC – Initial Results of the AOSpine North America Prospective Multicenter Study.* M.G Fehlings, B. Kopjar, A.R. Vaccaro, P.M. Arnold, C. Fisher, **Z. Gokaslan**, J. Schuster, M. Dekutoski. *Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 16-21, 2010. [Digital Poster]*

79. *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.* J. Chapman, A. Vaccaro, M. Fehlings, B. Kopjar, K. Pollo, Z. Bauer, C. Shaffrey, P. Arnold, **Z. Gokaslan**, R. Härtl, D. Brodke, J. France, S. Yoon, M. Dekutoski, R. Sasso, C. Bono. *Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 16-21, 2010.* [Oral Presentation: Top Ten Oral Presentation]
80. *The AOSpine North America Cervical Spondylotic Myelopathy Study: Two Year Surgical Outcomes of a Prospective Multicenter Study In 280 Patients.* M. Fehlings, B. Kopjar, P. Arnold, S. T. Yoon, A. Vaccaro, C. Shaffrey, D. Brodke, M. Janssen, J. Chapman, R. Sasso, E. Woodard, M. Dekutoski, **Z. Gokaslan**, C. Bono. *Congress of Neurological Surgeons Annual Meeting, San Francisco, CA, October 16-21, 2010.* [Oral Presentation: Top Ten Oral Presentation Category].
81. *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.* J. Chapman, A. Vaccaro, M. Fehlings, B. Kopjar, K. Pollo, Z. Bauer, C. Shaffrey, P. Arnold, **Z. Gokaslan**, R. Hartl, D. Brodke, J. France, S. Yoon, M. Dekutoski, R. Sasso, C. Bono. *Cervical Spine Research Society Annual Meeting, Charlotte, North Carolina, December 2-4, 2010.*
82. *Anterior vs Posterior Surgical Approaches to Treat Cervical Spondylotic Myelopathy: Outcomes of the Prospective Multicenter AOSpine North America CSM Study in 280 Patients.* M. Fehlings, B. Kopjar, P. Arnold, S. T. Yoon, A. Vaccaro, C. Shaffrey, D. Brodke, M. Janssen, J. Chapman, R. Sasso, E. Woodard, M. Dekutoski, **Z. Gokaslan**, C. Bono. *Cervical Spine Research Society Annual Meeting, Charlotte, North Carolina, December 2-4, 2010.* [Oral Presentation]
83. *Anterior vs Posterior Surgical Approaches to Treat Cervical Spondylotic Myelopathy: Outcomes of the Prospective Multicenter AOSpine North America CSM Study in 280 Patients.* M. Fehlings, B. Kopjar, P. Arnold, S. T. Yoon, A. Vaccaro, C. Shaffrey, D. Brodke, M. Janssen, J. Chapman, R. Sasso, E. Woodard, M. Dekutoski, **Z. Gokaslan**, C. Bono. *Cervical Spine Research Society Annual Meeting, Charlotte, North Carolina, December 2-4, 2010.* Mini- Manuscript –Placed 3rd Place Clinical Research Award Paper by the Cervical Spine Research Society’s Research Committee
84. *The abstract “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” has been accepted for an Oral Presentation at the 2011 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves conference in Phoenix, AZ, March 9-12, 2011.*
85. *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.* M. Fehlings, A. Vaccaro, B. Kopjar, J. Chapman, C. Shaffrey, P. Arnold, **Z. Gokaslan**, R. Hartl, D. Brodke, J. France, S. T. Yoon, M. Dekutoski, R. Sasso, C. Bono. *2011 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ, March 9-11, 2011.* [Oral Presentation].
86. *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.* J. Smith, C. Shaffrey, M. Fehlings, B. Kopjar, P. Arnold, S. T. Yoon, E. Massicotte, A. Vaccaro, D. Brodke, E. Woodard, R. Banco, J. Chapman, M. Janssen, R. Sasso, C. Bono, M. Dekutoski, **Z. Gokaslan**. *2011 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Phoenix, AZ, March 9-11, 2011* [Oral Presentation].
87. *The AOSpine North America Cervical Spondylotic Myelopathy Study: Perioperative Complication Rates Associated with Surgical Treatment Based on a Prospective Multicenter Study of 302 Patients.* J. Smith, C. Shaffrey, M. Fehlings, B. Kopjar, P. Arnold, S. T. Yoon, E. Massicotte, A. Vaccaro, D. Brodke, E. Woodard, R. Banco, J. Chapman, M. Janssen, R. Sasso, C. Bono, M. Dekutoski, **Z. Gokaslan**. *2011 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Phoenix, AZ, March 9-11, 2011.* [Abstract – Accepted Oral Presentation]
88. *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.* M. Fehlings, A. Vaccaro, B. Kopjar, J. Chapman, C. Shaffrey, P. Arnold, **Z. Gokaslan**, R. Hartl, D. Brodke, J. France, S. T. Yoon, M. Dekutoski, R. Sasso, C. Bono. *2011 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ, March 9-11, 2011.* [Oral Presentation].
89. *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.* M.G Fehlings, B. Kopjar, A.R. Vaccaro, P.M. Arnold, C. Fisher, **Z.**

- Gokaslan, J. Schuster, M. Dekutoski, J. Finkelstein, L. Rhines.** 2011 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ, March 9-11, 2011. [Oral Presentation].
90. The abstract “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” has been accepted for an Oral Presentation at the 2011 Global Spine Congress March 24-26, 2011 in Barcelona Spain.
 91. *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.* M. Fehlings, A. Vaccaro, B. Kopjar, J. Chapman, C. Shaffrey, P. Arnold, **Z. Gokaslan**, R. Hartl, D. Brodke, J. France, S. T. Yoon, M. Dekutoski, R. Sasso, C. Bono. 2011 Global Spine Congress, Barcelona, Spain. March 24-26, 2011. [Abstract – Accepted Oral Presentation **Best Abstracts Session**].
 92. *The AOSpine North America Cervical Spondylotic Myelopathy Study: Perioperative Complication Rates Associated with Surgical Treatment Based on a Prospective Multicenter Study of 302 Patients.* J. Smith, C. Shaffrey, M. Fehlings, B. Kopjar, P. Arnold, S. T. Yoon, E. Massicotte, A. Vaccaro, D. Brodke, E. Woodard, R. Banco, J. Chapman, M. Janssen, R. Sasso, C. Bono, M. Dekutoski, **Z. Gokaslan**. 2011 Global Spine Congress, Barcelona, Spain. March 24-26, 2011. [Oral Presentation Best Abstracts Sessions]. **Winner of 2011 Global Spine Congress Best Paper Award**
 93. *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.* M. Fehlings, A. Vaccaro, B. Kopjar, J. Chapman, C. Shaffrey, P. Arnold, **Z. Gokaslan**, R. Hartl, D. Brodke, J. France, S. T. Yoon, M. Dekutoski, R. Sasso, C. Bono. 2011 Global Spine Congress, Barcelona, Spain. March 24-26, 2011. [Abstract – Accepted Oral Presentation **Best Abstracts Session**].
 94. *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.* M.G Fehlings, B. Kopjar, A.R. Vaccaro, P.M. Arnold, C. Fisher, **Z. Gokaslan**, J. Schuster, M. Dekutoski, J. Finkelstein, L. Rhines. 2011 Global Spine Congress, Barcelona, Spain. March 24-26, 2011. [Oral Presentation].
 95. The abstract “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” has been accepted for an Oral Presentation at the 2011 AANS Annual Meeting April 9-13, 2011 in Denver, CO.
 96. *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 AANS Annual Conference, Denver, CO. April 9-14, 2011 [Oral Presentation].
 97. *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.* M.G Fehlings, B. Kopjar, A.R. Vaccaro, P.M. Arnold, C. Fisher, **Z. Gokaslan**, J. Schuster, M. Dekutoski, J. Finkelstein, L. Rhines. 2011 AANS Annual Conference, Denver, CO. April 9-14, 2011 [Oral Presentation].
 98. *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.* J. Smith, C. Shaffrey, M. Fehlings, B. Kopjar, P. Arnold, S. T. Yoon, E. Massicotte, A. Vaccaro, D. Brodke, E. Woodard, R. Banco, J. Chapman, M. Janssen, R. Sasso, C. Bono, M. Dekutoski, **Z. Gokaslan**. 2011 AANS Annual Conference, Denver, CO. April 9-14, 2011 [Oral Presentation].
 99. *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;* R. Banco, M. Fehlings, B. Kopjar, S. Tim Yoon, P. Arnold, E. Massicotte, A Vaccaro, D Brodke, C. Shaffrey, E. Woodard, J. Chapman, M. Janssen, R. Sasso, C. Bono, M. Dekutoski, **Z. Gokaslan**. Tufts University, Department of Orthopedic Surgery, Resident Graduation and Thesis Day, Tufts University School of Medicine, Sackler Auditorium. Robert Banco, MD, June 16, 2011 @ 3pm.
 100. The abstract “The AOSpine North America Cervical Spondylotic Myelopathy Study: Perioperative Complication Rates Associated with Surgical Treatment Based on a Prospective Multicenter Study of 302 patients”, 18th International Meeting on Advanced Spine Techniques (IMAST), which is to be held in Copenhagen, Denmark, July 13-16, 2011.

101. The abstract, "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", 18th International Meeting on Advanced Spine Techniques (IMAST), which is to be held in Copenhagen, Denmark, July 13-16, 2011.
102. The abstract, "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. 18th International Meeting on Advanced Spine Techniques (IMAST), which is to be held in Copenhagen, Denmark, July 13-16, 2011.
103. The abstract, "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", 18th International Meeting on Advanced Spine Techniques (IMAST), which is to be held in Copenhagen, Denmark, July 13-16, 2011.
104. 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. M. Fehlings, A. Vaccaro, B. Kopjar, J. Chapman, C. Shaffrey, P. Arnold, **Z. Gokaslan**, R. Härtl, D. Brodke, J. France, S. Yoon, M. Dekutoski, R. Sasso, C. Bono. 2011 SRS 18th Annual International Meeting on Advanced Spine Techniques (IMAST), Copenhagen, Denmark, July 13-16, 2011. [Abstract – Accepted as Oral Presentation]
105. The abstract, "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", 18th International Meeting on Advanced Spine Techniques (IMAST), which is to be held in Copenhagen, Denmark, July 13-16, 2011.
106. The AOSpine North America Cervical Spondylotic Myelopathy Study: Perioperative Complication Rates Associated with Surgical Treatment Based on a Prospective Multicenter Study of 302 Patients. Justin S. Smith, Christopher I. Shaffrey, Branko Kopjar, Paul M. Arnold, Sang Wook Yoon, Alexander R. Vaccaro, Darrel S. Brodke, Michael Janssen, Jens Chapman, Rick Sasso, Eric J. Woodard, Robert Banco, Eric Massicotte, Mark B. Dekutoski, **Ziya L. Gokaslan**, Christopher Bono, Michael G. Fehlings. 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].
107. 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. Michael G. Fehlings, Justin S. Smith, Christopher I. Shaffrey, Branko Kopjar, Paul M. Arnold, Sang Wook Yoon, Alexander R. Vaccaro, Darrel S. Brodke, Michael Janssen, Jens Chapman, Rick Sasso, Eric J. Woodard, Robert Banco, Eric Massicotte, Mark B. Dekutoski, **Ziya L. Gokaslan**, Christopher Bono. 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].
108. 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. P. Arnold, B. Kopjar, M. Fehlings, S. T. Yoon, E. Massicotte, A. Vaccaro, D. Brodke, 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. [Abstract – Accepted as E-Poster].
109. 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. Michael Fehlings MD PhD, Branko Kopjar, MD, PhD, Alexander Vaccaro, MD, Paul Arnold, MD, Charles Fisher, MD, **Ziya Gokaslan, MD**, James Schuster, MD, Mark Dekutoski, MD, Joel Finkelstein, MD, Laurence Rhines, MD. 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].
110. The abstract, "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 CNS Annual Conference in Washington, D.C., October 1-6, 2011.
111. The abstract, "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 CNS Annual Conference in Washington, D.C., October 1-6, 2011.

112. The abstract, “Peri-operative and Delayed Complication Associated with Surgical Treatment of Cervical Spondylotic Myelopathy Based on a Prospective Multicenter Study of 302 Patients”, 2011 CNS Annual Conference in Washington, D.C., October 1-6, 2011.
113. The abstract, “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 CNS Annual Conference in Washington, D.C., October 1-6, 2011.
114. 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. P. Arnold, B. Kopjar, M. Fehlings, S. T. Yoon, E. Massicotte, A. Vaccaro, D. Brodke, E. Woodard, R. Banco, J. Chapman, M. Janssen, R. Sasso, C. Bono, M. Dekutoski, **Z. Gokaslan**. 2011 Congress of Neurological Surgeons (CNS) Annual Meeting, Washington DC, October 1-6, 2011 [Abstract – Accepted as Oral Presentation].
115. 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. Justin S. Smith, Christopher I. Shaffrey, Branko Kopjar, Paul M. Arnold, Sang Wook Yoon, Alexander R. Vaccaro, Darrel S. Brodke, Michael Janssen, Jens Chapman, Rick Sasso, Eric J. Woodard, Robert Banco, Eric Massicotte, Mark B. Dekutoski, **Ziya L. Gokaslan**, Christopher Bono, Michael G. Fehlings. 2011 Congress of Neurological Surgeons (CNS) Annual Meeting, Washington DC, October 1-6, 2011 [Abstract – Accepted as Oral Presentation].
116. 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 Congress of Neurological Surgeons (CNS) Annual Meeting, Washington DC, October 1-6, 2011 [Abstract – Accepted as Oral Presentation].
117. Peri-operative and Delayed Complications Associated with Surgical Treatment of Cervical Spondylotic Myelopathy Based on a Prospective Multicenter Study of 302 Patients. Justin S. Smith, Christopher I. Shaffrey, Branko Kopjar, Paul M. Arnold, Sang Wook Yoon, Alexander R. Vaccaro, Darrel S. Brodke, Michael Janssen, Jens Chapman, Rick Sasso, Eric J. Woodard, Robert Banco, Eric Massicotte, Mark B. Dekutoski, **Ziya L. Gokaslan**, Christopher Bono, Michael G. Fehlings. 2011 Congress of Neurological Surgeons (CNS) Annual Meeting, Washington DC, October 1-6, 2011 [Abstract – Accepted as Oral Presentation].
118. “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”. Michael Fehlings MD PhD, Branko Kopjar, MD, PhD, Alexander Vaccaro, MD, Paul Arnold, MD, Charles Fisher, MD, **Ziya Gokaslan, MD**, James Schuster, MD, Mark Dekutoski, MD, Joel Finkelstein, MD, Laurence Rhines, MD. 2011 Congress of Neurological Surgeons (CNS) Annual Meeting, Washington DC, October 1-6, 2011 [Abstract – Accepted as Digital Poster].
119. 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. M. Fehlings, A. Vaccaro, B. Kopjar, J. Chapman, C. Shaffrey, P. Arnold, **Z. Gokaslan**, R. Härtl, D. Brodke, J. France, S. Yoon, M. Dekutoski, R. Sasso, C. Bono. 2011 North America Spine Society NASS Meeting, Chicago, IL, November 1-5, 2011. [Abstract – Accepted as Oral Presentation]
120. Predictors of Outcomes in Surgical Treatment For Cervical Spondylotic Myelopathy: The AOSpine North America Multi-Center Prospective Study. 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 North America Spine Society NASS Meeting, Chicago, IL, November 1-5, 2011. [Abstract – Accepted as E-Poster]
121. 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. Michael Fehlings MD PhD, Branko Kopjar, MD, PhD, Alexander Vaccaro, MD, Paul Arnold, MD, Charles Fisher, MD, **Ziya Gokaslan, MD**, James Schuster, MD, Mark Dekutoski, MD, Joel Finkelstein, MD, Laurence Rhines, MD. 2011 North America Spine Society NASS Meeting, Chicago IL, November 1-5, 2011. [Abstract – Accepted as Podium Presentation]
122. The AOSpine North America Cervical Spondylotic Myelopathy Study: Perioperative Complication Rates Associated with Surgical Treatment Based on a Prospective Multicenter Study of 302 Patients.

- Justin S. Smith, Christopher I. Shaffrey, Branko Kopjar, Paul M. Arnold, Sang Wook Yoon, Alexander R. Vaccaro, Darrel S. Brodke, Michael Janssen, Jens Chapman, Rick Sasso, Eric J. Woodard, Robert Banco, Eric Massicotte, Mark B. Dekutoski, **Ziya L. Gokaslan**, Christopher Bono, Michael G. Fehlings. 2011 North America Spine Society NASS Meeting, Chicago, IL, November 1-5, 2011. [*Abstract – Accepted as Oral Presentation*]
123. *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.* P. Arnold, B. Kopjar, M. Fehlings, S. T. Yoon, E. Massicotte, A. Vaccaro, D. Brodke, E. Woodard, R. Banco, J. Chapman, M. Janssen, R. Sasso, C. Bono, M. Dekutoski, **Z. Gokaslan**. 2011 North America Spine Society NASS Meeting, Chicago, IL, November 1-5, 2011. [*Abstract – Accepted as Oral Presentation*]
124. *The abstract, “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”, NASS 26th Annual Meeting, Chicago, IL, November 2-5, 2011.*
125. *The abstract, “Predictors of Outcomes in Surgical Treatment For Cervical Spondylotic Myelopathy: The AOSpine North America Multi-Center Prospective Study, NASS 26th Annual Meeting, Chicago, IL, November 2-5, 2011.*
126. *Surgical vs conservative treatment for geriatric odontoid fracture. Initial 6 Month Outcomes of a Multi-Center Prospective Study of 122 Patients.* Vaccaro A, Kopjar B, Chapman J, Shaffrey C, Brodke D, Arnold P, **Gokaslan Z**, Dekutoski M, Yoon T, Hartl R, France J, Fehlings M. Congress of Neurological Surgeons, Florida, 2008 [*Oral Presentation*]
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128. **Is Surgical Decompression in Patients with Mild Cervical Spondylotic Myelopathy Effective? Results of the Prospective, Controlled, Multicenter AOSpine North America CSM Study.** Michael Fehlings, MD, PhD, Branko Kopjar, MD, PhD, Sangwook Tim Yoon, MD, PhD, Paul Arnold, MD, Eric M. Massicotte MD MSc, Alexander Vaccaro, MD, PhD, Darrel S. Brodke, MD, Christopher Shaffrey, MD, Justin S. Smith, MD, PhD, Eric Woodard, MD, Robert J. Banco, MD, Jens Chapman MD, Michael Janssen, DO, Christopher Bono, MD, Rick Sasso, MD, Mark Dekutoski, MD, **Ziya L. Gokaslan, MD**. Submitted to JAMA.
129. **Is Surgical Decompression in Patients with Mild Cervical Spondylotic Myelopathy Effective? Results of the Prospective, Controlled, Multicenter AOSpine North America CSM Study.** Michael Fehlings, MD, PhD, Branko Kopjar, MD, PhD, Sangwook Tim Yoon, MD, PhD, Paul Arnold, MD, Eric M. Massicotte MD MSc, Alexander Vaccaro, MD, PhD, Darrel S. Brodke, MD, Christopher Shaffrey, MD, Justin S. Smith, MD, PhD, Eric Woodard, MD, Robert J. Banco, MD, Jens Chapman MD, Michael Janssen, DO, Christopher Bono, MD, Rick Sasso, MD, Mark Dekutoski, MD, **Ziya L. Gokaslan, MD**. Submitted to Lancet Neurology.

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Extramural Sponsorship

Grants

1. Principal Investigator, Spinal Reconstruction Using SYNTHES Spine SYNEX™ System Following Corpectomy/Vertebrectomy in Tumor Patients, Number CS01-138, 2001, \$250,000.
Data Management Support for Ongoing Research, \$56,796.00.
3. AO North America Spine Fellowship Educational Grant \$75,000 x 2 (\$150,000).
4. EBI Study: Prospective Randomized Study for Posterolateral Lumbar Fusion with Bone Stimulator \$210,000.
5. Surgical v.s Nonoperative Treatment of Metastatic Epidural Spinal Cord Compression, AOSpine North America, \$ 45,000.
6. Predictors of Mortality and Morbidity in the Surgical Management of Primary Tumors of Spine, AOSpine North America, \$19,000
7. Interdisciplinary reliability of the Spinal Instability Neoplasm Score in radiologists and radiation Oncologists, AOSpine International, \$10,700
8. Efficiency of Riluzole in Patients with Cervical Spondylitic Myelopathy Undergoing Surgical Treatment: Multi-Center Double-Blind Randomized Controlled Trial, \$34,000

Basic 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 – Active
2. Specialist Consultant, 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 – Active
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 – Active
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 – Active
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 – Active
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 – In Progress
7. Goat Disc Degeneration Model (Sherwin Wu and Jennifer Elisseeff BME) – Active

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., Active 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., Active, 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: Submitted.

EDUCATIONAL ACTIVITIES

Teaching

Courses Taught

1. 1) Management of primary spinal cord tumors; 2) Controversies in spinal cord compression; 3) 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.

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.

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

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 Kalhorn, 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, Dean Chou, M.D., Chief Residency, 2002-2003.
40. Mentor, Johns Hopkins University, Department of Neurosurgery, Matt Lesniak, M.D., Chief Residency, 2002-2003.
41. Mentor, Johns Hopkins University, Department of Neurosurgery, Philip Jay Storm, M.D., Chief Residency, 2002-2003.
42. Mentor, Johns Hopkins University, Department of Neurosurgery, Dean Chou, M.D., Chief Residency, 2003-2004.
43. Mentor, Johns Hopkins University, Department of Neurosurgery, Ira Garonzik, M.D., Spine Instructorship, 2003-2004.
44. Mentor, Johns Hopkins University, Department of Neurosurgery, Jean-Paul Wolinsky, M.D., Spine Instructorship, 2004-2005.
45. Mentor, Johns Hopkins University, Department of Neurosurgery, Timothy Witham, M.D., Spine Instructorship, 2005-2006.
46. Mentor, Johns Hopkins University, Department of Neurosurgery, Yevgeniy Khavkin, M.D., Spine Instructorship, 2005-2006.
47. Mentor, Johns Hopkins University, Department of Neurosurgery, Jacob Schlosser, M.D., Chief Residency, 2005-2006.
48. Mentor, Johns Hopkins University, Department of Neurosurgery, Michael Schwarz, M.D., Chief Residency, 2005-2006.
49. Mentor, Johns Hopkins University, Department of Neurosurgery, Carlos Bagley, M.D., Chief Residency, Spine Fellowship, 2005-2007.
50. Mentor, Johns Hopkins University, Department of Neurosurgery, Ali Bydon, M.D., Spine Instructorship, 2006-2007.
51. Mentor, Johns Hopkins University, Department of Neurosurgery, Daniel Sciubba, M.D., Chief Residency, Spine Fellowship, 2006-2008.
52. Mentor, Johns Hopkins University, Department of Neurosurgery, Patrick Hsieh, M.D., Spine Instructorship, 2007-2008.
53. Mentor, Johns Hopkins University, Department of Neurosurgery, Instructorship, M.D., Spine Fellowship, 2007-2008.
54. Mentor, Johns Hopkins University, Department of Neurosurgery, Ibrahim Omeis, M.D., Spine Instructorship, 2008-present.
55. Mentor, Johns Hopkins University, Department of Neurosurgery, Oren Gottfried, M.D., Spine Instructorship, 2008-present.
56. Mentor, Johns Hopkins University, Department of Neurosurgery, Michelle Clarke, M.D., Spine Instructorship, 2009-2010.
57. Mentor, Johns Hopkins University, Department of Neurosurgery, Reza Yessari, M.D., Spine Instructorship, 2009-2010.
58. Mentor, Johns Hopkins University, Department of Neurosurgery, Marcella Madera, M.D., Spine Instructorship, 2010-2011.
59. Mentor, Johns Hopkins University, Department of Neurosurgery, Ilya Laufer, M.D., Spine Instructorship, 2010-2011.
60. Mentor, Johns Hopkins University, Department of Neurosurgery, Ryan Kretzer, M.D., Spine Instructorship, 2011-2012.
61. Mentor, Johns Hopkins University, Department of Neurosurgery, Ali Baaj, M.D., Spine Instructorship, 2011-2012.

Editorial Activities

Editorial Board Appointments

1. Journal of Spinal Disorders & Techniques, 2001-present.
2. The Spine Journal, 2003-present (Associate Editorial Board Member).
3. The Journal of Neurosurgery: Spine, 2006-present.
4. The European Spine Journal, 2006-present
5. Nature Reviews in Neurology, 2006-present
6. Journal of Surgical Oncology, 2008-present.
7. World Neurosurgery, 2010-present.

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 “Metastatic Spine Disease” Invited Topic Editor, December 2001.
4. Journal of Neurology, Neurosurgery and Psychiatry (ad hoc reviewer), 2001-present.

CLINICAL ACTIVITIES

Certification

Licensures (Active)

Medical Doctor, 1983
E.C.F.M.G. Certification, 367-730-9, 1983
F.L.E.X., 1986
Texas, H7150, 1990
California, A049007, 1990
New York, 192346, 1993
Maryland, D0058481, 2002

Licensures (Inactive)

Illinois, 00186767, 12/10/86, 1992.

Board Certification

The American Board of Neurological Surgery, 1997, [97032].

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

Member, Quality Improvement – Alternate, 1995-2002.
Point of Contact, Disaster Ride-out Team, 1995-2002.
Member, Faculty Senate, 1996-2002.
Member, Clinical Research Committee, 1997-1999.
Member, PRS Business Operations & Fees Committee, 1998-2002.
Member, Pharmacy and Therapeutics Committee, 1998-2001.
Member, Promotions Committee, Division of Surgery, 1998-2002.
Vice Chair, Medical Practice Committee, 2000-2002.
Member, M. D. Anderson Associates Steering Committee, 2000-2001.
Member at Large, Executive Committee of Medical Staff, 2001-2002.
Member, Neuroscience Promotions Committee, JHU, 2002-present.
Member, Johns Hopkins University Promotions Committee, 2002-present.
Member, Johns Hopkins University Policy in Health Affairs, 2003-present.
Director, Johns Hopkins International, Anadolu Medical Center, 2006-present.
Member, Johns Hopkins School of Medicine Admissions Committee, 2007-present.
Member, Johns Hopkins Medical Staff Conference Committee, 2007-present.

Member, Johns Hopkins CPA Contracting Committee, 2007-present.
Member, Johns Hopkins Value Analysis Committee, 2007-present.
Member, CPA Contracting Committee, Johns Hopkins University, Baltimore, MD 2004-Present

Professional Society Activities, with Offices Held

Chairman, AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves, 2010 - Present
Member Ethics Committee of the North American Spine Society (NASS), 1999-present.
Chairman, AO ASIF Committee on “Tumor, Infection & Osteoporosis,” 2000-present.
Chairman, Fellowship & Awards Coordinating Committee of the AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves, 2000-present.
Member, North American Spine Society Recognition and Awards Committee, 2001-2004.
Member, AO ASIF, North American Education Committee, 2001-2003.
Chairman, AO ASIF, North American Education Committee, 2003-present.
Member, Scoliosis Research Society, 2005-present.
Member, Senior Advisory Council to the Executive Committee, AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves, 2008-present.

Local/state

Member, Harris County Medical Society, 1986-present.
Member, Houston Neurological Society, 1986-present.
Member, Texas Medical Association, 1995-present.
Member, Texas Association of Neurological Surgeons, 1996-present.

National and International

Member, American Medical Association, 1984-present.
Member, North American Spine Society, 1994-present.
Member, Congress of Neurological Surgeons, 1997-present.
Member, The American Association of Neurological Surgeons, 1998-present.
Member, American College of Surgeons, 1999-present.
Member, American Society of Clinical Oncology, 2001-present.
Member, Cervical Spine Research Society, 2003-present.
Member, Society of Neurological Surgeons, 2007-present.

RECOGNITION

Awards, Honors

Magna Cum Laude-Valedictorian, Istanbul Faculty of Medicine, University of Istanbul, Istanbul, Turkey, 1983.
Honor List, Ministry of Health, Ankara, Turkey, 1983.
Recipient of the Congress of Neurological Surgeons Resident Trauma Research Award, 1987.
Congress of Neurological Surgeons AME Spine Fellowship Award, 1993.
Best Doctors in America, 1999.
Fellow of American College of Surgeons, 1999.
Faculty Achievement Award in Patient Care, UT M. D. Anderson Cancer Center Foundation, 2001.
Donlin M. Long Professor of Neurosurgery, Johns Hopkins University, 2003.
Richard J. Otenasek, Jr. Faculty Teaching Award, Dept. of Neurosurgery, Johns Hopkins University, 2003.
Elected Member, Society of Neurological Surgeons, 2004.
Best Doctors in America, 2005-2006.
Baltimore Magazine, Top Doctors, 2007.

Invited Talks, Panels

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.

Chairing National or International Conferences/Symposia

1. AO ASIF, Comprehensive & Interactive 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. 4. AO ASEC (North American Spine Education Committee), Chairman, 2003.
5. Cervical Spine Research Society, Neoplastic Disease of the Cervical Spine, Scottsdale, Arizona, Moderator and Lecturer, 2003.
6. North American Spine Society (NASS) Scientific Program Committee, Chicago, IL, Chairman 2004.
- 7.. AO Spine North America, Faculty Development Forum, Southampton, Bermuda, Chairman, November 4-7, 2004.
8. AO North America, AO Challenges and Complications in Complex Spine Surgery Symposium, Baltimore, MD, Co-Chairman, April 30-May 1, 2005.

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, Intraspinal 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 AOSpine North America Degenerative Spine Symposium: Course Director, Principles and Emerging Technologies, Montreal, Quebec, July 22-23, 2006.
105. Faculty of AOSpine North America Spine Faculty Development Forum, Moderator: “AOSpine 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.

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.

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". 5th 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. 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.
20. Visiting Professor: "Sacral Tumors" Brigham and Women's Hospital and Children's Hospital, Department of Neurosurgery, Boston, Massachusetts, February 9, 2007.
21. Visiting Professor: "Surgical Management of Spinal Tumors" University of Utah School of Medicine, Salt Lake City, Utah, February 21, 2007.
22. Visiting Professor: "Surgical Management of Spinal Neoplasms" Stanford University Medical Center, Department of Neurosurgery Grand Rounds, Stanford, California, March 23, 2007.
23. Guest Lecturer, 13th Congress of the European Association of Neurological Societies, Lecture: "Primary Tumors of the Vertebral Spine", Glasgow, England, September 2-7, 2007.
24. Visiting Professor: "Surgical Management of Primary Spinal Neoplasms" & "Surgical Treatment of Sacral Tumors", Washington University, St. Louis, Missouri, November 6-8, 2007.
25. Visiting Professor: "Surgical Management of Primary Spinal Neoplasms" Neurological Institute of New Jersey, Newark, New Jersey, November 13-14, 2007.

26. Visiting Professor: “Surgical Management of Primary Spinal Neoplasms” Baylor College of Medicine, Houston, Texas, February 7-9, 2008.
27. Visiting Professor : “Surgical Management of Spinal Neoplasms ” University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, May 6-7, 2008.
28. Visiting Professor : “Surgical Management of Spinal Neoplasms ” Henry Ford Hospital, Detroit, MI, May 20-21, 2008.
29. Visiting Professor: “Surgical Management of Spinal Neoplasms ” University of California San Francisco, California, March 25-26, 2009.
30. Visiting Professor: “Current Surgical Management of Spinal Neoplasms” University of Washington, Seattle, Washington, July 15, 2009.
31. Visiting Professor: “Surgical Management of Spinal Neoplasms” University of Florida, April 22, 2010.
32. Visiting Professor: “Primary and Metastatic Tumors of the Spine”, The Burdenko Neurosurgical Institute, Moscow, Russia, May 18-23, 2010.
33. Visiting Professor: MGH Grand Rounds, Boston, MA, May 26-27, 2010.
34. Visiting Professor: Cedars-Sinai Medical Center, Los Angeles, CA, November 9-10, 2010.
35. Visiting Professor: Cleveland Ohio Clinic, Cleveland, Ohio, January 19-21, 2011.
36. Visiting Professor: Montefiore Medical Center, Bronx, NY, February 6-7, 2011.
37. Visiting Professor: Rush University, Chicago, IL, June 22-24, 2011.
38. Visiting Professor: The University of Texas-SW Medical Center, Dallas, Texas, August 16-18, 2011.

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. Best Doctors in America (2011-2012)