

Jason C. Eck

CURRICULUM VITAE

ACADEMIC APPOINTMENTS:

Assistant Professor Department of Orthopaedic Surgery University of Massachusetts Worcester, MA	To begin 8/15/08
Assistant Professor Department of Orthopaedic Surgery Mayo Clinic Rochester, MN	5/07 - present

EDUCATION:

Fellowship: Orthopaedic Spine Surgery Mayo Clinic Rochester, MN Fellowship Director: Bradford Currier, MD	07/07 - present
Residency: Orthopaedic Surgery Memorial Hospital York, PA Other Training Hospitals: York Hospital, York, PA Sinai Hospital, Baltimore, MD	07/03 – 6/07
Internship: Traditional AOA Rotating Internship Orthopaedic Surgery Emphasis Memorial Hospital York, PA	07/02-06/03
Medical: University of Health Sciences College of Osteopathic Medicine Kansas City, MO Degree: D.O.	08/98-06/02
Graduate: Marquette University Milwaukee, WI Degree: M.S., Biomedical Engineering Thesis: "A Non-Invasive Three-Dimensional Spinal Motion Analysis Method"	08/93-07/96
Undergraduate: The Catholic University of America	08/89-05/93

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Washington, DC
Degree: B.S., Biomedical Engineering

High School: Hayden High School
Topeka, KS

08/85-05/89

AWARDS:

AO Spine North America Fellowship, 2007-2008
American Spinal Injury Association - Synthes Resident Research Award, 2007
Eastern Orthopaedic Association Resident and Fellow Research Award, 2005
AO North America Basic Fracture Management Preceptorship, 2005
Brimfield Award, Memorial Hospital Orthopaedic Resident of the Year, 2004-2005

Medical School: University of Health Sciences Clinical Research Award, 2002
University of Health Sciences Research Symposium Award, 1999

Publications: *Spine* Supplemental Edition for Revolutionary Biomechanical Studies, 2000
American Family Physician Cover Article of the Month, 1999
Southern Medical Journal CME Article of the Month, 1998

Graduate School: Marquette University Graduate Academic Scholarship, 1995

Undergraduate: The Catholic University of America Undergraduate Student Leadership Award, 1993
Biomedical Engineering Society Leadership Award, 1993
Biomedical Engineering Society President, 1992 - 1993
Donald E. Marlowe Academic Engineering Scholarship, 1989

PROFESSIONAL MEMBERSHIPS:

American Osteopathic Academy of Orthopaedics
American Osteopathic Association (084319)
AO Spine North America
North American Spine Society
World Spine Society

JOURNAL REVIEW BOARD

American Family Physician
Clinical Anatomy
Journal of Psychosomatic Research
Spine

VOLUNTEER EXPERIENCE:

DOCare

09/99-05/01

- Assisted with drug sorting for DOCare International medical mission to Guatemala. Participated in medical Spanish course.

Score-One 4 Health 11/99-12/99

- Provided physical examinations at underprivileged elementary schools.

American Diabetes Association Walk America Committee 05/99-10/99

- Assisted in the planning of the 1999 American Diabetes Association Walk America fund-raiser in Kansas City.

COMMITTEES AND APPOINTMENTS:

American Osteopathic Association Bureau of Interns and Residents 07/02-06/04

American Osteopathic Association Bureau of Research, Intern/Resident Representative 07/02-06/04

Memorial Hospital Bioethics Committee 07/02-06/03

American Osteopathic Association Bureau of Research, Student Representative 07/01-06/02

American Osteopathic Association Council on Research Grants, Student Representative 07/00-06/01

RESEARCH EXPERIENCE:

Biomedical Engineer 08/97-07/98

Chattanooga Orthopaedic Group
Foundation for Research

- Investigated cervical spine imaging methods and conducted spinal biomechanics research and technical writing.

Research Assistant II 08/96-07/97

Vanderbilt University, School of Medicine
Department of Clinical Pharmacology

- Investigated the interaction of antiarrhythmic drugs with cloned human cardiac potassium channels using electrophysiology patch clamp techniques.

Graduate Student / Research Assistant 04/94-07/96

Medical College of Wisconsin
Department of Orthopaedic Surgery

- Compared and assessed various orthopaedic spinal surgery techniques using biomechanical and three-dimensional motion analysis techniques.

Research Assistant 01/92-08/93

Walter Reed Army Institute of Research
Department of Bacterial Diseases

- Provided technical assistance to aid in the development of HIV vaccines using bacterial vectors and molecular biology techniques.

BOOKS:

1. **Eck JC**, Hodges SD, Humphreys SC. *Spine Pearls*, Philadelphia: Hanley & Belfus. 2003.

BOOK CHAPTERS:

1. Hodges SD, **Eck JC**: "Harvest of Fibular Shaft." In: Herkowitz HN, ed. *The Cervical Spine Surgical Atlas*, 2nd ed. Philadelphia: Williams & Wilkins. 2003;297-308.
2. Anderson PA, Steinmetz MP, **Eck JC**. "Head and Neck Injuries in Athletes." In: *Orthopaedic Knowledge Update - Spine 3rd ed.* Rosemont, IL: AAOS. 2006; 259-269.
3. Anderson PA, **Eck JC**, Puschak T: "Adjacent Segment Degeneration Following Fusion." In: Vaccaro AR, Papadopoulos S, Traynelis VC, Haid RW, Sasso RC, eds. *Spinal Arthroplasty: The Preservation of Motion*, Philadelphia: Elsevier 2007;83-94.
4. Currier BL, **Eck JC**. "Cervical Spine Pain, Radiculopathy, and Myelopathy: Investigations, Nonoperative Care, and Indications for Surgery." In: *Instructional Course Lectures* 2008;57: (in press)

PEER-REVIEWED JOURNAL PUBLICATIONS:

1. An HS, Lim TH, You JW, Hong JH, **Eck JC**, McGrady LM. "Biomechanical Evaluation of Anterior Thoracolumbar Spinal Instrumentation." *Spine* 1995;20(18):1979-1983.
2. Lim TH, **JC Eck**, An HS, Hong JH, Ahn JY, You JW. "Biomechanics of Transfixation in Pedicle Screw Instrumentation." *Spine* 1996;21(19):2224-2229.
3. Lim TH, An HS, Hong JH, Ahn JY, You JW, **Eck JC**, McGrady LM. "Biomechanical Evaluation of Anterior and Posterior Fixations in an Unstable Calf Spine Model." *Spine* 1997;22(3):261-266.
4. Riley LH, **Eck JC**, Yoshida H, Toth JM, Cahn N, Lim TH, McGrady LM. "Laparoscopic Assisted Fusion of the Lumbosacral Spine: A Biomechanical and Histologic Analysis of the Open Versus Laparoscopic Technique in an Animal Model." *Spine* 1997;22(12):1407-1412.
5. Lim TH, **Eck JC**, An HS, McGrady LM, Harris GF, Haughton VM. "A Non-Invasive Three-Dimensional Spinal Motion Analysis Method." *Spine* 1997;22(17):1996-2000.
6. Humphreys SC, An HS, **Eck JC**, Coppes M, Lim TH, Estkowski L. "Oblique MRI as a Useful Adjunct in Evaluation of Cervical Foraminal Impingement." *J Spinal Disord* 1998;11(4):295-299.
7. Humphreys SC, Hodges SD, Patwardhan A, **Eck JC**, Covington LA, Sartori M. "The Natural History of the Cervical Foramen in both Symptomatic and Asymptomatic Individuals Aging From 20-60 Years as Measured by MRI: A Descriptive Approach." *Spine* 1998;23(20):2180-2184.
8. Humphreys SC, Hodges SD, Fischer DL, **Eck JC**, Covington LA. "Can MRI Reliably Predict Disc Material Posterior to the Posterior Longitudinal Ligament in the Cervical Spine? A Prospective Study." *Spine* 1998;23(22):2468-2471.

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9. **Eck JC**, Humphreys SC. CME Article of the Month: "Diagnosis and Treatment of Common Metabolic Spinal Disorders in the Geriatric Population." *Southern Med J* 1998;91(12):1089-1097.
10. Hodges SD, Humphreys SC, **Eck JC**, Covington LA, Kurzynske NG. "Low Postoperative Infection with Instrumented Lumbar Fusion." *Southern Med J* 1998;91(12):1132-1136.
11. Humphreys SC, An HS, Glover JM, **Eck JC**, McGrady LM, Lim TH. "A Comparison Between Anterior Threaded Cages vs. Posterior Pedicle Screw Instrumentation in Terms of Foraminal Distraction and Lumbar Lordosis." *J Musculoskeletal Res* 1998;2(4):315-323.
12. Franqueza L, Valenzuela C, **Eck JC**, Tamkun MM, Tamargo J, Snyders DJ. "Functional Expression of an Inactivating Potassium Channel (Kv4.3) in a Mammalian Cell Line." *Cardiovasc Res* 1999;41(1):212-219.
13. Humphreys SC, **Eck JC**. Cover Article of the Month: "Etiology, Clinical Evaluation and Treatment Options for Herniated Lumbar Disc." *Am Fam Physician* 1999;59(3):575-582.
14. **Eck JC**, Humphreys SC, Hodges SD. "Adjacent Segment Degeneration After Lumbar Fusion. A Review of Clinical, Biomechanical and Radiologic Studies." *Am J Orthop* 1999;28(6):336-340.
15. Hodges SD, Humphreys SC, **Eck JC**, Covington LA. "The Surgical Treatment of Far Lateral L3-L4 and L4-L5 Disc Herniations. A Modified Technique and Outcomes Analysis of 25 Patients." *Spine* 1999;24(12):1243-1246.
16. Hodges SD, Humphreys SC, **Eck JC**, Covington LA. "Management of Incidental Durotomy Without Mandatory Bed Rest. A Retrospective Review of 20 Cases." *Spine* 1999;24(19):2062-2064.
17. Hodges SD, Humphreys SC, **Eck JC**, Covington LA. "Posterior Extradural Lumbar Disc Fragment." *J Southern Orthop Assoc* 1999;8(3):222-228.
18. Murphy RB, Humphreys SC, Fischer DL, Hodges SD, **Eck JC**. "Imaging of the Cervical Spine and its Role in Clinical Decision Making." *J Southern Orthop Assoc* 2000;9(1):24-35.
19. An HS, Lim TH, You JW, Hong JH, **Eck JC**, McGrady LM. Supplemental Edition for Revolutionary Biomechanical Studies: "Biomechanical Evaluation of Anterior Thoracolumbar Spinal Instrumentation." *Spine* 2000;25(6S):25S-29S.
20. **Eck JC**, Circolone NJ. "The Use of Spinal Manipulation in the Treatment of Low Back Pain. A Review of Goals, Patient Selection, Techniques and Risks." *J Orthop Sci* 2000;5(4):411-417.
21. Hodges SD, Humphreys SC, Brown TW Jr, **Eck JC**, Covington LA. "Complications of the Retropharyngeal Approach in Cervical Spine Surgery. A Technique and Outcomes Review." *J Southern Orthop Assoc* 2000;9(3):169-174.
22. Chambless KM, Knudtson J, **Eck JC**, Covington LA. "The Rate of Injury in Minor League Baseball by Level of Play." *Am J Orthop* 2000;29(11):869-872.
23. Hodges SD, Humphreys SC, **Eck JC**, Murphy RM. "Intraoperative Loosening of BAK Cages During Anterior Lumbar Interbody Fusion. A Report of Three Cases" *J Spinal Disord* 2000;13(6):535-537.
24. Koh YD, Lim TH, You JW, **Eck JC**, An HS. "A Biomechanical Comparison of Modern Anterior and Posterior Plate Fixation of the Cervical Spine." *Spine* 2001;26(1):15-21.

25. Hodges SD, Humphreys SC, **Eck JC**, Covington LA, Harrom H. "Predicting Factors of Successful Recovery from Lumbar Spine Surgery in Workers' Compensation Patients." *J Am Osteopathic Assoc* 2001;101(2):78-83.
26. Hodges SD, Humphreys SC, **Eck JC**. "Patient Outcomes Following Anterior Multi-Level Cervical Fusion: A Comparative Analysis of AO Versus DOC Instrumentation." *J Musculoskeletal Res* 2001;5(2):131-134.
27. Humphreys SC, Hodges SD, Patwardhan A, **Eck JC**, Murphy RB, Covington LA. "Comparison of Posterior and Transforaminal Approaches to Lumbar Interbody Fusion." *Spine* 2001;26(5):567-571.
28. **Eck JC**, Hodges SD, Humphreys SC. "Whiplash: A Review of a Commonly Misunderstood Injury." *Am J Med* 2001;110(8):651-656.
29. Ray TR, **Eck JC**, Murphy RB, Covington LA, Williams R, Knudtson J. "Use of Oral Creatine as an Ergogenic Aid for Increased Sports Performance: Perceptions of Adolescent Athletes." *Southern Med J* 2001;94(6):608-612.
30. **Eck JC**, Hodges SD, Humphreys SC. "Techniques for Stimulating Spinal Fusion. The Efficacy of Electricity, Ultrasound, and Biologic Factors in Achieving Fusion." *Am J Orthop* 2001;30(7):535-541.
31. **Eck JC**, Hodges SD, Humphreys SC. "Cauda Equina Syndrome." *e-Medicine.com Orthop Surg J* 2002;3(2)online.
32. Humphreys SC, **Eck JC**, Hodges SD. "Ankylosing Spondylitis." *e-Medicine.com Orthop Surg J* 2002;3(2):online.
33. **Eck JC**, Hodges SD, Humphreys SC. "Vertebroplasty: A New Treatment Strategy for Osteoporotic Compression Fractures." *Am J Orthop* 2002;31(3):123-128.
34. Banco SP, Vaccaro AR, Blam O, **Eck JC**, Cotler JC, Hilibrand A, Albert TJ, Murphey S. "Postoperative Spinal Infections: Variations in Incidence During the Academic Year." *Spine* 2002;27(9):962-965.
35. Humphreys SC, **Eck JC**, Hodges SD. "Neuroimaging in Low Back Pain." *Am Fam Physician* 2002;65(11):2299-2306.
36. Hodges SD, Humphreys SC, **Eck JC**, Covington LA, Van Horn ER, Peterson JED. "A Modified Technique for Anterior Multi-Level Cervical Fusion." *J Orthop Sci* 2002;7(3):313-316.
37. Humphreys SC, Hodges SD, **Eck JC**, Griffin J. "Dysphagia Caused by Anterior Cervical Osteophytes: A Case Report." *Am J Orthop* 2002;31(7):417-419.
38. **Eck JC**, Humphreys SC, Lim TH, Jeong ST, Kim JG, Hodges SD, An HS. "A Biomechanical Study on the Effect of Cervical Spine Fusion on Adjacent Level Intradiscal Pressure and Segmental Motion." *Spine* 2002;27(22):2431-2434.
39. Hodges SD, Humphreys SC, **Eck JC**. "The Effect of Patient Spirituality on the Successful Recovery from Spinal Surgery." *Southern Med J* 2002;94(12):1381-1384.
40. Hodges SD, **Eck JC**, Humphreys SC. "A Use of Electrical Bone Stimulation in Spinal Fusion." *J Am Acad Orthop Surg* 2003;11(2):81-88.
41. Jarvik JG, Hollingworth W, Martin B, Videman T, Eck JC. "Commentary: 'No Clinical Advantage of Rapid MRI Over Radiographs for People with Low Back Pain.'" *Evidence-Based Healthcare* 2003;7(4):198-199.

42. **Eck JC**, Aboulaflia A. "Endoprosthetic Reconstruction for Treatment of Tumors about the Knee." *Curr Opin Orthop* 2004;15(1):41-44.
43. An HS, Singh K, Vaccaro AR, Wang G, Yoshida H, **Eck J**, McGrady L, Lim TH. "Biomechanical Evaluation of Contemporary Posterior Spinal Internal Fixation Configurations in an Unstable Burst-Fracture Calf Spine Model: Special References of Hook Configurations and Pedicle Screws." *Spine* 2004;29(3):257-262.
44. Hodges SD, **Eck JC**, Humphreys SC. "A Treatment and Outcomes Analysis of Patients with Coccydynia." *Spine J* 2004;4(2):138-140
45. Riley LH, **Eck JC**, Yoshida H, Koh YD, You JW, Lim TH. "A Biomechanical Comparison of Calf Versus Cadaver Lumbar Spine Models." *Spine* 2004;29(11):E217-E220.
46. Humphreys SC, **Eck JC**, Hodges SD, Hagen J. "Preliminary Experience with a New Surgical Treatment for Dysphagia Due to Anterior Cervical Osteophytes." *J Surgical Orthop Advances* 2004;13(2):106-109.
47. **Eck JC**, Riley LH. "Return to Play Following Lumbar Spine Conditions and Surgeries." *Clin Sports Med* 2004;23(3): 367-379.
48. **Eck JC**, Triantafyllou SJ. "Hemorrhagic Lumbar Synovial Facet Cyst Secondary to Anticoagulation Therapy. A Case Report." *Spine J* 2005;5(4):451-453.
49. **Eck JC**. "Publication Rates of Abstracts Presented at Biennial Meetings of The International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine." *Knee Surg Sports Traumatol Arthrosc* 2005;13(5):426-429.
50. **Eck JC**, Humphreys SC, Hodges SD, Levi P. "A Comparison of Outcomes of Anterior Cervical Discectomy and Fusion in Patients With and Without Radicular Symptoms" *J Surgical Orthop Advances* 2006;15(1):24-26.
51. **Eck JC**, Nachtigall D, Humphreys SC, Hodges, SD. "Questionnaire Survey of Spine Surgeons on the Use of Methylprednisolone for Acute Spinal Cord Injury." *Spine* 2006;31(9):E250-E253.
52. Grimaldi NA, Sicuranza M, **Eck JC**. "Perioperative Autotransfusion Systems in Total Knee Arthroplasty are Not Necessary." *Orthopedics* 2006;29(11):1027-1029.
53. **Eck JC**, Humphreys SC, Patil VD, Hodges SD, Clarke SE, Davare JR. "Paradoxical Embolus Causing Transient Bilateral Blindness Following Spinal Surgery. A Case Report." *Am J Orthop* 2006;35(11): 527-529.
54. **Eck JC**, Nachtigall D, Hodges SD, Humphreys SC. "Redundant Publications in the Orthopaedic Literature." *Orthopedics* 2007;30(1):60-62.
55. Chastain C, **Eck JC**, Hodges SD, Humphreys SC, Levi P. "Transforaminal Lumbar Interbody Fusion: A Retrospective Study of Long-Term Pain Relief and Fusion Outcomes." *Orthopedics* 2007;30(5): 389-392.
56. Rao RD, Currier BL, Albert TJ, Bono CM, Marawar SV, Poelstra KA, **Eck JC**. "Degenerative Cervical Spondylosis: Clinical Syndromes, Pathogenesis and Management." *J Bone Joint Surg* 2007;89-A(6):1360-1378.
57. **Eck JC**, Hodges SD, Humphreys SC. "Minimally Invasive Lumbar Spine Fusion." *J Am Acad Orthop Surg* 2007;15(6):321-329.
58. Humphreys SC, Hodges SD, Lumpkin KL, **Eck JC**, Wurster R, Hagen J, Farmer D. "Assessing Lumbar Sagittal Motion using Videography in an *in Vivo* Pilot Study." *Int J Indust Ergon* 2007;37(7):653-656.

59. Park DH, Ramakrishnan P, Cho TH, Lorenz E, **Eck JC**, Humphreys SC, Lim TH. "Effect of Lower Two-Level Anterior Cervical Fusion on the Superior Adjacent Level." *J Neurosurg Spine* 2007;7(3):336-340.
60. **Eck JC**, Walker MP, Currier BL, Chen Q, Yaszemski MJ, An KN. "Biomechanical Comparison of Unicortical Versus Bicortical C1 Lateral Mass Screw Fixation." *J Spinal Disord Tech* 2007;20(7):505-508.
61. Cyr SJ, Currier BL, **Eck JC**, Foy A, Chen Q, Larson DR, Yaszemski MJ, An KN. "Fixation Strength of Unicortical Versus Bicortical C1-C2 Transarticular Screws." *Spine J* 2008;(in press)
62. **Eck JC**, Tressler MA, Triantafyllou SJ. "Delayed Presentation of Metastatic Melanoma of the Cervical Spine: A Case Report and Review of the Literature." *Orthopedics* 2008;(in press)
63. **Eck JC**, Nachtigall D, Humphreys SC, Hodges SD. "Comparison of Vertebroplasty and Balloon Kyphoplasty for Treatment of Vertebral Compression Fractures: A Meta-Analysis of the Literature." *Spine J* 2008;(in press)
64. **Eck JC**, Baublitz SD. "Endobutton-Assisted Repair of a Complete Distal Biceps Tendon Rupture in a Female. A Case Report and Review of the Literature." *Am J Orthop* 2008;(in press)
65. Currier BL, Maus TP, **Eck JC**, Larson DR, Yaszemski MJ. "Relationship of the Internal Carotid Artery to the Anterior Aspect of the C1 Vertebra: Implications for C1-C2 Transarticular and C1 Lateral Mass Fixation." *Spine* 2008;33(6):in press
66. Rabinowitz RS, **Eck JC**, Harper CM, Larson DL, Jimenez MA, Parisi JE, Friedman JA, Currier BL. "Urgent Surgical Decompression Compared to Methylprednisolone for the Treatment of Acute Spinal Cord Injury. A Randomized, Prospective Study in Beagle Dogs." *Spine* (submitted)

NON-PEER REVIEWED JOURNAL PUBLICATIONS

1. Humphreys SC, An HS, **Eck JC**, Hodges SD, Shepard LC. "Oblique MRI as a Useful Adjunct in Evaluation of Cervical Foraminal Impingement." *Loyola Univ Orthop J* 1997;6:4-7.
2. Humphreys SC, Hodges SD, **Eck JC**, Covington LA. "Complications of Anterior Iliac Bone Graft Harvest in Anterior Cervical Fusion. A Prospective Study of 33 Consecutive Patients." *Loyola Univ Orthop J* 1998;7:14-17.
3. Humphreys SC, Hodges SD, **Eck JC**, Covington LA. "An Analysis of the Method of Arrival of Emergency Room Patients Presenting with Cervical Fractures." *Loyola Univ Orthop J* 1999;8:15-17.
4. **Eck JC**, Circolone NJ, Humphreys SC. "Spinal Manipulation for Low-Back Pain: A Review of Goals, Patient Selection, Techniques and Risks." *J Am Chiropr Assoc* 1999;36(6):44-54.
5. Hodges SD, **Eck JC**. "Spinal Cord Injury." *Chattanooga Health Scope Magazine* 1999;Summer:19-32.
6. Humphreys SC, Hodges SD, Patwardhan AG, **Eck JC**, Murphy RB, Covington LA. "Comparison of Posterior and Transforaminal Approaches in Performing Lumbar Interbody Fusion." *Loyola Univ Orthop J* 2000;9:11-15.
7. Banco SP, **Eck JC**, Murphey S, Cotler JC, Albert TJ, Vaccaro AR. "Postoperative Spinal Infections: Variations in Incidence During the Academic Year." *Jefferson Orthop J* 2001; 29:7-12.

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8. Humphreys SC, Hodges SD, **Eck JC**, Griffin J. "A Case Report of Anterior Osteophytes Causing Dysphagia." *Loyola Univ Orthop J* 2001;10:29-31.
9. Humphreys SC, **Eck JC**, Hodges SD, Hagen J. "Preliminary Experience with a Surgical Treatment for Dysphagia Due to Anterior Cervical Osteophytes." *Loyola Univ Orthop J* 2003;12:(5-7)
10. **Eck JC**. Commentary – "No Clinical Advantage of Rapid MRI Over Radiographs for People with Low Back Pain." *Evidenced-Based Healthcare* 2003;7(4):198-199.
11. Humphreys SC, **Eck JC**, Hodges SD, Levi P. "A Comparison of Outcomes of Anterior Cervical Discectomy and Fusion in Patients With and Without Radicular Symptoms" *Loyola Univ Orthop J* 2004;13:55-57.
12. Humphreys SC, Hodges SD, **Eck JC**, Fessler RG, Patwardhan A, Havey R, Voronov L, Lange E, Braddock D, Yu K. "Introduction of the Kenai Posterior Lumbar Joint Replacement." *Loyola Univ Orthop J* 2006;15(15-18).

INVITED PRESENTATIONS / COURSE FACULTY:

1. "Cervical Disc Arthroplasty Anatomy." *American Osteopathic Academy of Orthopaedics*. May 5-7, 2006. Scottsdale, AZ.
2. "Biomechanics of Cervical Disc Arthroplasty." *American Osteopathic Academy of Orthopaedics*. May 5-7, 2006. Scottsdale, AZ.
3. "Lumbar Disc Arthroplasty Anatomy." *American Osteopathic Academy of Orthopaedics*. May 5-7, 2006. Scottsdale, AZ.
4. "Biomechanics of Lumbar Disc Arthroplasty." *American Osteopathic Academy of Orthopaedics*. May 5-7, 2006. Scottsdale, AZ.
5. "Management of Thoracolumbar Burst Fractures." Loyola University, Department of Orthopaedic Surgery. October 10, 2007. Maywood, IL.
6. "Evidence-Based Approach to Spinal Cord Monitoring in Cervical Cases." Mayo Clinic International Spine Symposium, January 27-31, 2008. Kauai, Hawaii.
7. Congenital and Juvenile Deformity Session Moderator. Mayo Clinic International Spine Symposium, January 27-31, 2008. Kauai, Hawaii.
8. Spinal Cord Monitoring – Breakfast Session Moderator. Mayo Clinic International Spine Symposium, January 27-31, 2008. Kauai, Hawaii.

CONFERENCE ABSTRACTS:

1. You JW, Lim TH, An HS, **Eck JC**, McGrady LM, Hong JH. "Biomechanical Evaluation of Anterior Thoracolumbar Spinal Instrumentation."
 - *North American Spine Society*, Oct. 19-22, 1994, Minneapolis, MN.
2. An HS, Lim TH, Ahn JY, You JW, Hong JH, **Eck JC**, McGrady LM. "Biomechanical Comparison Between Anterior Fixation vs. Posterior Fixation in an Unstable Calf Spine Model."

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- *International Society for the Study of the Lumbar Spine*, June 18-22, 1995, Helsinki, Finland.
 - *Scoliosis Research Society*, September 14, 1995, Ashville, NC.
 - *North American Spine Society*, October 20, 1995, Washington, DC.
 - *Federation of Spine Society, American Academy of Orthopaedic Surgeons*, February 25, 1996, Atlanta, GA.
3. **Eck JC**, Lim TH, An HS, Ahn JY, Hong JH. "Biomechanics of Transfixation in Pedicle Screw Instrumentation."
- *American Society of Mechanical Engineers Summer Bioengineering Conference*, June 28-July 2, 1995, Beaver Creek, CO. (oral presentation)
- Ahn JY, **Eck JC**, Lim TH, An HS, Hong JH, You J, McGrady LM.
- *International Society for the Study of the Lumbar Spine*, June 19, 1995, Helsinki, Finland.
 - *Scoliosis Research Society*, September 14, 1995, Ashville, NC.
 - *North American Spine Society*, October 20, 1995, Washington, DC.
 - *Federation of Spine Society, American Academy of Orthopaedic Surgeons*, February 23, 1996, Atlanta, GA.
4. Lim TH, **Eck JC**, An HS, McGrady LM. "A Non-Invasive Three-Dimensional Spinal Motion Analysis Method."
- *International Society for the Study of the Lumbar Spine*, June, 1996, Burlington, VT.
5. **Eck JC**, Riley LH, Yoshida H, Toth J, Cahn N, Lim TH, McGrady LM. "Laparoscopic Assisted Fusion of the Lumbosacral Spine: A Biomechanical Analysis of Open Vs. Laparoscopic Technique."
- *University of Health Sciences Research Symposium*, April 28, 2000, Kansas City, MO. (oral presentation)
- Riley LH, **Eck JC**, Yoshida H, Cahn N, McGrady LM, Lim TH.
- *Scoliosis Research Society*, 1996, Ottawa, Ontario.
6. Humphreys SC, An HS, **Eck JC**, Lim TH, Estkowski L. "Oblique MRI as a Useful Adjunct in Evaluation of Cervical Foraminal Impingement."
- *Cervical Spine Research Society*, December 5-7, 1996, Palm Beach, FL.
 - *North American Spine Society and Japanese Spine Research Society "Spine Across the Sea"* March 16-20, 1997, Kamuela, HI
 - *Tennessee Orthopaedic Society*, August 28-30, 1997, Ashville, NC.
 - *Southern Medical Association*, November 6-9, 1997, Charlotte, NC.
7. Koh YD, An HS, You JW, Lim TH, **Eck JC**, McGrady LM. "Biomechanical Comparison Between Anterior vs. Posterior Plate Fixation for Flexion-Distrraction and Corpectomy Models."
- *Cervical Spine Research Society*, December 5-7, 1996, Palm Beach, FL.
8. Humphreys SC, An HS, Glover JM, McGrady LM, **Eck JC**, Lim TH, Inufusa A. "A Comparison Between Anterior Threaded Cages vs. Posterior Pedicle Screw Instrumentation in Terms of Foraminal Distrraction and Lumbar Lordosis."
- *Wisconsin State Orthopaedic Society*, June 3, 1996, Milwaukee, WI.
 - *American Academy of Orthopaedic Surgeons*, February 13-17, 1997, San Francisco, CA.
9. Toth JM, Lim TH, An HS, Yoshida H, Roh J, Pagedas MT, **Eck JC**, Nguyen CM. "Enhancement of Cervical Spine Fusion with Reinforced Porous 50/50 HA/ β -TCP Loaded with rhBMP-2 in a Caprine Model."
- *Orthopaedic Research Society*, February 9-13, 1997, San Francisco, CA.

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10. Toth JM, Lim TH, An HS, Yoshida H, Roh J, Pagedas MT, **Eck JC**, Nguyen CM. "Cervical Spine Fusion with Reinforced Porous Ceramics."
 - *Society for Biomaterials*, April 30 – May 4, 1997, New Orleans, LA
 11. An HS, Wang G, Lim TH, Yoshida H, **Eck JC**, McGrady LM. "A Biomechanical Evaluation of Modern Posterior Constructs for an Unstable Burst Fracture in a Calf Spine Model: Special References of Hook Positions and Pedicle Screws."
 - *International Society for the Study of the Lumbar Spine*, June 2-6, 1997, Singapore.
 12. Lim TH, Riley LH, **Eck JC**, Yoshida H, You JW, An HS. "A Biomechanical Comparison of Calf Versus Human Lumbar Spine Models."
 - *International Society for the Study of the Lumbar Spine*, June 2-6, 1997, Singapore.
 13. Humphreys SC, **Eck JC**, Hodges SD, An HS, Stein B, Shepard JC. "A Single-Stage Anterior Decompression with Simultaneous Posterior Instrumentation for Treatment of Epidural Spinal Abscess."
 - *Scoliosis Research Society*, September 24-27, 1997, St. Louis, MO.
 14. Kuperschmidt S, Snyders DJ, **Eck JC**, Roden DM. "Cloning and Functional Characterization of a C-Terminal Splice Variant of HERG."
 - *American Heart Association*, November 9-12, 1997, Orlando, FL.
 15. Hodges SD, Humphreys SC, **Eck JC**, Covington LA, Harrom H. "Prediction of Successful Recovery from Spinal Surgery in Worker's Compensation Patients."
 - *North American Spine Society / American Pain Society*, April 26-29, 1998, Charleston, SC.
 16. Hodges SD, Humphreys SC, **Eck JC**, Covington LA. "Management of Incidental Durotomy Without Mandatory Bed Rest."
 - *Tennessee Orthopaedic Society*, August 27-29, 1998, White Sulpher Springs, WV.
 - *American Spinal Injury Association*, April 19-21, 1999, Atlanta, GA.
 - *2000 Federation of Spine Associations, American Spinal Injury Association*, March 18, 2000
 17. **Eck JC**, Humphreys SC, Hodges SD, Patwardhan A, Covington LA, Sartori M. "Natural History of the Cervical Foramen in both Symptomatic and Asymptomatic Individuals Aging 20-60 Years as Measured by MRI."
 - *University of Health Sciences Research Symposium*, December 15, 1998, Kansas City, MO. (oral presentation)
- Humphreys SC, Hodges SD, Patwardhan A, **Eck JC**, Shepard LC, Sartori M.
- *North American Spine Society*, October 28-31, 1998, San Francisco, CA.
 - *Southern Orthopaedic Association*, July 15-17, 1999, Amelia Island, FL.
18. Humphreys SC, Hodges SD, Fisher DL, **Eck JC**, Shepard LC. "Can MRI Reliably Predict Disc Material Posterior to the Posterior Longitudinal Ligament in the Cervical Spine? A Prospective Study."
 - *Cervical Spine Research Society*, December 4-6, 1997, Rancho Mirage, CA.
 - *North American Spine Society*, October 28-31, 1998, San Francisco, CA.
 19. Hodges SD, Humphreys SC, Brown TW, **Eck JC**, Covington LA. "Complications of the Anterior Retropharyngeal Approach in Cervical Spine Surgery. A Technique and Outcomes Review."
 - *Cervical Spine Research Society*, December 3-5, 1998, Atlanta, GA.
 - *Southern Orthopaedic Association*, July 15-17, 1999, Amelia Island, FL.

20. Humphreys SC, Hodges SD, **Eck JC**, Murphy RB, Covington LA. "Comparison of Posterior and Transforaminal Approaches in Performing Lumbar Interbody Fusion."
 - *American Association of Neurological Surgeons*, September 28-30, 1999, San Francisco, CA.
21. **Eck JC**, Ray TR, Williams R, Knudtson J. "Adolescent Athlete Perceptions on the Use of Oral Creatine as an Ergogenic Aid for Increased Sports Performance."
 - *Tennessee Orthopaedic Society*, August 24-26, 2000, Hot Springs, VA. (oral presentation)
22. **Eck JC**, Hodges SD, Humphreys SC. "The Effect of Spirituality on Successful Recovery from Spinal Surgery."
 - *American Osteopathic Association*, October 29-November 2, 2000, Orlando, FL. (poster presentation)
 - *North American Spine Society, Meeting of the Americas II*, April 24-27, 2002, New York, NY. (poster presentation)

Hodges SD, Humphreys SC, **Eck JC**.

- *Tennessee Orthopaedic Society*, August 24-26, 2000, Hot Springs, VA.

23. **Eck JC**, Banco SP, Murphey S, Cotler JC, Albert TJ, Vaccaro AR. "Post-Operative Spinal Infections: Variation in Incidence During the Academic Year."
 - *University of Medicine and Dentistry of NJ Research Symposium*, March 15, 2001, Stratford, NJ. (poster presentation)
 - *Atlantic Regional Osteopathic Convention*, April 17-21, 2001, Atlantic City, NJ. (oral presentation)
24. Hodges SD, Humphreys SC, **Eck JC**, Winters A. "Outcomes Following Anterior Cervical Discectomy and Fusion with Plating."
 - *Tennessee Orthopaedic Society*, August 23-26, 2001, White Sulphur Springs, WV.
 - *Southern Medical Association*, November 7-11, 2001, Nashville, TN.
25. **Eck JC**, Humphreys SC, Lim TH, Jeong ST, Kim JG, Hodges SD. "A Biomechanical Study on the Effect of Cervical Spine Fusion on Adjacent Level Intradiscal Pressure."
 - *Cervical Spine Research Society*, November 29-December 1, 2001, Monterey, CA. (oral presentation)
 - *Southern Orthopaedic Association*, April 2-7, 2002, Florence, Italy. (oral presentation)
 - *North American Spine Society, Meeting of the Americas II*, April 24-27, 2002, New York, NY. (oral presentation)

Humphreys SC, **Eck JC**, Lim TH, Jeong ST, Kim JG, Hodges SD.

- *Tennessee Orthopaedic Society*, August 23-26, 2001, White Sulphur Springs, WV.

26. **Eck JC**, Hodges SD. "A Biomechanical Comparison of Transforaminal Lumbar Interbody Fusion vs. Posterior Lumbar Interbody Fusion."
 - *Southern Orthopaedic Association*, April 2-7, 2002, Florence, Italy. (oral presentation)
27. **Eck JC**, Hodges SD, Humphreys SC. "A Treatment and Outcomes Analysis of Patients with Coccydynia."
 - *Tennessee Orthopaedic Society*, October 10-13, 2002, Sea Island, GA. (oral presentation)
 - *World Spine II*, August 10-13, 2003, Chicago, IL. (oral presentation)

Hodges SD, **Eck JC**, Humphreys SC.

- *International Society for the Study of the Lumbar Spine*, May 14-18, 2002, Cleveland, OH.
- *American College of Spine Surgery*, September 4-8, 2002, Naples, FL.
- *North American Spine Society*, October 30 – November 2, 2002, Montreal, Canada.

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28. **Eck JC**, Humphreys SC, Patil VD, Hodges SD, Clarke SE, Davare JR. "Paradoxical Embolus Causing Bilateral Blindness Following Spinal Surgery."
 - *World Spine II*, August 10-13, 2003, Chicago, IL. (poster presentation)

29. **Eck JC**, Hodges SD, Humphreys SC, Hagen J. "A Surgical Treatment for Anterior Cervical Osteophytes."
 - *American Spinal Injury Association*; May 14-16, 2004, Denver, CO. (oral presentation)

Hodges SD, Humphreys SC, **Eck JC**, Hagen J.

 - *European Cervical Spine Research Society*; May 30 – June 5, 2004, Porto, Portugal.

30. **Eck JC**, Humphreys SC, Lim TH, Cho TH, Lorenz E, Hodges SD. "Effect of Cervical 2-Level Anterior Plating on the Intradiscal Pressure At the Adjacent Level"
 - *American Spinal Injury Association*; May 14-16, 2004, Denver, CO. (oral presentation)

Hodges SD, **Eck JC**, Humphreys SC, Lim TH, Cho TH, Lorenz E.

 - *European Cervical Spine Research Society*; May 30 – June 5, 2004, Porto, Portugal.
 - *International Meeting of Advanced Spine Techniques*; July 12-15, 2006, Athens, Greece.

31. **Eck JC**, Humphreys SC, Hodges SD, Levi P. "A Retrospective Analysis of 103 Patients Following ACDF with a 43 Month Mean Follow-up."
 - *American Spinal Injury Association*; May 14-16, 2004, Denver, CO. (oral presentation)

32. **Eck JC**, Humphreys SC, Hodges SD, Levi P. "A Comparison of Outcomes of Anterior Cervical Discectomy and Fusion in Patients With and Without Radicular Symptoms."
 - *American Spinal Injury Association*; May 14-16, 2004, Denver, CO. (oral presentation)
 - *Southern Orthopaedic Association*; July 21-24, 2004, Hilton Head, SC. (oral presentation)
 - *Eastern Orthopaedic Association*; October 5-8, 2005, Chesapeake, MD. (oral presentation)

Hodges SD, **Eck JC**, Humphreys SC, Levi P.

 - *European Cervical Spine Research Society*; May 30 – June 5, 2004, Porto, Portugal.
 - *Cervical Spine Research Society*; December 1-3, 2005; San Diego, CA.

33. **Eck JC**, Hodges SD, Humphreys SC, Chastain C, Levi P. "Transforaminal Lumbar Interbody Fusion: A Retrospective Study of Long-Term Pain Relief and Fusion Outcomes."
 - *Southern Orthopaedic Association*; July 21-24, 2004, Hilton Head, SC. (oral presentation)

Hodges SD, **Eck JC**, Humphreys SC, Chastain C, Levi P.

 - *International Society for the Study of the Lumbar Spine*; May 30 – June 5, 2004, Porto, Portugal.
 - *International Meeting of Advanced Spine Techniques*; July 12-15, 2006, Athens, Greece.

34. Hodges SD, **Eck JC**, Humphreys SC. "Redundant Publications in the Spine Literature."
 - *Scoliosis Research Society*; September 6-9, 2004, Buenos Aires, Argentina.

35. **Eck JC**, Tressler MA, Triantafyllou SJ. "Delayed Presentation of Metastatic Melanoma of the Cervical Spine."
 - *International Meeting of Advanced Spine Techniques*; July 7-9, 2005; Banff, Alberta, Canada. (poster presentation)

36. **Eck JC**, Triantafyllou S. "Hemorrhagic Lumbar Synovial Facet Cyst Secondary to Anticoagulation Therapy."

- *International Meeting of Advanced Spine Techniques*; July 7-9, 2005; Banff, Alberta, Canada. (poster presentation)
37. **Eck JC**, Nachtigall D, Humphreys SC, Hodges SD. "Questionnaire Survey of North American Spine Society Surgeons on the Use of Methylprednisolone for Acute Spinal Cord Injury."
- *International Meeting of Advanced Spine Techniques*; July 7-9, 2005; Banff, Alberta, Canada. (oral presentation)
 - *Eastern Orthopaedic Association*; October 5-8, 2005, Chesapeake, MD. (oral presentation)
 - *International Society for the Study of the Lumbar Spine*; June 13-17, 2006; Bergen, Norway. (oral presentation)
 - *Spine Across the Sea*; July 23-27, 2006, Maui, HI. (oral presentation)
- Hodges SD, **Eck JC**, Nachtigall D, Humphreys SC.
- *Tennessee Orthopaedic Society*; October 14-15, 2005; Asheville, NC.
38. Hodges, SD, Humphreys SC, Lumpkin KJ, **Eck JC**, Wurster R, Levi P. "A Retrospective Analysis of 70 Patients with Confounding Medical Conditions Receiving a Bone Growth Stimulator During Spinal Fusion"
- *International Meeting of Advanced Spine Techniques*; July 7-9, 2005; Banff, Alberta, Canada.
 - *International Society for the Study of the Lumbar Spine*; June 13-17, 2006; Bergen, Norway.
39. Humphreys SC, Hodges SD, Lumpkin K, **Eck JC**, Wurster R, Hagen J, Farmer D, Jolley L. "Assessing Lumbar Sagittal Motion using Videography in an *In Vivo* Pilot Study"
- *Spine Arthroplasty Summit*; May 4-7, 2005; New York, NY.
 - *International Meeting of Advanced Spine Techniques*; July 7-9, 2005; Banff, Alberta, Canada.
 - *North American Spine Society*; September 27-October 1, 2005; Philadelphia, PA.
 - *Tennessee Orthopaedic Society*; October 14-15, 2005; Asheville, NC.
 - *International Society for the Study of the Lumbar Spine*; June 13-17, 2006; Bergen, Norway.
40. Hodges SD, Humphreys SC, **Eck JC**, Fessler RG, Patwardhan AG, Havey B, Voronov L, Lange E, Braddock D, Yu K. "Biomechanics of the Kenai™ Total Joint Replacement."
- *Spine Arthroplasty Summit*; May 10-13, 2006; Montreal, Canada.
 - *International Society for the Study of the Lumbar Spine*; June 13-17, 2006; Bergen, Norway.
 - *International Meeting of Advanced Spine Techniques*; July 12-15, 2006, Athens, Greece.
41. Fessler RG, Humphreys SC, Hodges SD, **Eck JC**, Patwardhan AG, Havey B, Voronov L, Lange E, Braddock D, Yu K. "Measurement of center of rotation of the lumbar motion segment for total joint replacement design."
- *International Society for the Study of the Lumbar Spine*; June 13-17, 2006; Bergen, Norway.
 - *International Meeting of Advanced Spine Techniques*; July 12-15, 2006, Athens, Greece.
42. Humphreys SC, Hodges SD, **Eck JC**, Fessler RG, Patwardhan AG, Havey B, Voronov L, Lange E, Braddock D, Yu K. "Rationale for lumbar posterior total joint replacement."
- *International Meeting of Advanced Spine Techniques*; July 12-15, 2006, Athens, Greece.
43. **Eck JC**, Nachtigall D, Humphreys SC, Hodges SD. "Meta-Analysis of Vertebroplasty and Kyphoplasty for Vertebral Compression Fractures."
- *American Society of Spine Radiology*; February 22-25, 2007, Marco Island, FL (oral presentation)
 - *American Spinal Injury Association*; May 30 – June 2, 2007, Tampa, FL. (oral presentation)
 - *North American Spine Society*; October 23-27, 2007, Austin, TX. (poster presentation)

Hodges SD, **Eck JC**, Nachtigall D, Humphreys SC.

- *International Society for the Study of the Lumbar Spine*; June 10-14, 2007, Hong Kong, China.

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- *International Meeting of Advanced Spine Techniques*; July 11-14, 2007, Paradise Island, Bahamas.
44. Hodges SD, Humphreys SC, **Eck JC**, Lumkin K, Henley J, Levi P. “Accuracy of Physician Assessment and Imaging Studies on Predicting Pseudoarthrosis following Lumbar Spinal Fusion.”
 - *International Society for the Study of the Lumbar Spine*; June 10-14, 2007, Hong Kong, China.
 - *North American Spine Society*; October 23-27, 2007, Austin, TX.
 45. Hodges SD, Humphreys SC, **Eck JC**. “Measurement of Kambin’s Triangle for Transforaminal Lumbar Interbody Fusion.”
 - *International Meeting of Advanced Spine Techniques*; July 11-14, 2007, Paradise Island, Bahamas.

COURSES AND CONFERENCES ATTENDED

1. American Society of Mechanical Engineers Summer Bioengineering Conference, June 28-July 2, 1995, Beaver Creek, CO.
2. University of Health Sciences Research Symposium, December 15, 1998, Kansas City, MO.
3. University of Health Sciences Research Symposium, April 28, 2000, Kansas City, MO.
4. Tennessee Orthopaedic Society, August 24-26, 2000, Hot Springs, VA.
5. American Osteopathic Association, October 29-November 2, 2000, Orlando, FL.
6. University of Medicine and Dentistry of New Jersey Research Symposium, March 15, 2001, Stratford, NJ.
7. Atlantic Regional Osteopathic Convention, April 17-21, 2001, Atlantic City, NJ.
8. Scoliosis Research Society, September 19-22, 2001, Cleveland, OH.
9. Cervical Spine Research Society, November 29-December 1, 2001, Monterey, CA.
10. Southern Orthopaedic Association, April 2-7, 2002, Florence, Italy.
11. North American Spine Society, Meeting of the Americas II, April 24-27, 2002, New York, NY.
12. Tennessee Orthopaedic Society, October 10-13, 2002, Sea Island, GA.
13. World Spine II, August 10-13, 2003, Chicago, IL.
14. New Perspectives on Tissue Regeneration: Bone and Cartilage, The Hospital for Special Surgery; February 28, 2004, New York, NY.
15. American Spinal Injury Association; May 14-16, 2004, Denver, CO.
16. Orthopaedic Review Course, Johns Hopkins University; May 23-28, 2004, Baltimore, MD.
17. Rocky Mountain Resident Forum. Trauma in the Thoracolumbar Spine; June 5-6, 2004, Denver, CO.
18. American Osteopathic Association, Intern and Resident Leadership Symposium – Research Techniques; July 15, 2004, Chicago, IL.

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19. Southern Orthopaedic Association; July 21-24, 2004, Hilton Head, SC.
20. Stryker Orthopaedic Residents Symposium; August 13-14, 2004, Cleveland, OH.
21. AO Orthopaedic Resident's Basic Fracture Course; August 19-22, 2004, Minneapolis, MN.
22. Armed Forces Institute of Pathology's Orthopaedic Pathology Course; September 8-12, 2004, Washington, DC.
23. Sofamor Danek Inside Track Resident's Program; October 25, 2004, Chicago, IL.
24. North American Spine Society; October 27-30, 2004, Chicago, IL.
25. American Academy of Orthopaedic Surgeons, Federation of Spine Associations Specialty Day; February 26, 2005, Washington, DC.
26. AO Challenges and Complications in Complex Spine Surgery; April 30 - May 1, 2005, Baltimore, MD.
27. Spine Study Group; June 8-12, 2005, Palm Beach, FL.
28. International Meeting of Advanced Spine Techniques; July 7-9, 2005, Banff, Alberta, Canada.
29. North American Spine Society; September 27 – October 1, 2005, Philadelphia, PA.
30. Eastern Orthopaedic Association; October 5-8, 2005, Cambridge, MD.
31. Zimmer Resident's Trauma Symposium; November 4-6, 2005, Pasadena, CA.
32. American Osteopathic Academy of Orthopaedics; May 5-7, 2006, Scottsdale, AZ.
33. International Society for the Study of the Lumbar Spine; June 13-17, 2006, Bergen, Norway.
34. Spine Across the Sea; July 23-27, 2006, Maui, HI.
35. EBI Spine Hands-On Workshop; July 28, 2006; Hershey, PA.
36. Zimmer Orthopaedic Residents Seminar; August 10-13, 2006, Chicago, IL.
37. Stryker Spine Posterior Cervical Spine Cadaver Course; August 25, 2006, Baltimore, MD.
38. Kyphon Certification Course; August 26, 2006, Hershey, PA.

39. North American Spine Society; September 26-30, 2006, Seattle, WA.
40. Stryker Orthopaedic Residents Symposium; October 12-14, 2006, San Francisco, CA.
41. AAOS Modern Techniques in Spinal Surgery; November 16-18, 2006, Rosemont, IL.
42. American Society of Spine Radiology; February 23-25, 2007; Marco Island, FL.
43. Advanced Trauma Life Support Course; April 19-20, 2007, Baltimore, MD.
44. MERC Comprehensive Spine Review for Residents and Fellows; May 11-12, 2007, White Sulphur Springs, WV.

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45. American Spinal Injury Association; May 30 – June 2, 2007, Tampa, FL.
46. North American Spine Society; October 23-27, 2007, Austin, TX.
47. Medtronic Spine + Science + Management Fellows Program; November 16-17, 2007, New Orleans, LA.
48. AO Spine Conference for Residents and Fellows; January 11-13, 2008; Houston, TX.
49. AO Advanced Concepts in the Management of Spinal Disorders; February 21-24, 2008; Sun Valley, ID
50. Mayo Clinic International Spine Symposium; January 27-31, 2008; Kauai, Hawaii.