

CURRICULUM VITAE PERSONAL DATA: Name: Jason C. Eck, DO, MS Office Address: UMass Memorial Medical Center Department of Orthopedic Surgery 119 Belmont Street Worcester, MA 01605 Phone: 508-334-9764 Fax: 508-334-9769 ACADEMIC APPOINTMENTS: Assistant Professor 8/08 - present Department of Orthopedic Surgery University of Massachusetts Worcester, MA Assistant Professor 05/07 - 07/08 Department of Orthopaedic Surgery Mayo Clinic Rochester, MN EDUCATION: Fellowship: Orthopaedic Spine Surgery 07/07 - 07/08 Mayo Clinic Rochester, MN Fellowship Director: Bradford Currier, MD Residency: Orthopaedic Surgery 07/03 - 06/07 Memorial Hospital York, PA Other Training Hospitals: York Hospital, York, PA Sinai Hospital, Baltimore, MD Internship: Traditional AOA Rotating Internship 07/02 - 06/03 Orthopaedic Surgery Emphasis Memorial Hospital York, PA Medical: University of Health Sciences 08/98 - 06/02 College of Osteopathic Medicine Kansas City, MO Degree: D.O. Graduate: Marquette University 08/93 - 07/96 Curriculum Vitae Jason C. Eck, D.O., M.S. Page 2 Milwaukee, WI Degree: M.S., Biomedical Engineering Thesis: "A Non-Invasive Three-Dimensional Spinal Motion Analysis Method" Undergraduate: The Catholic University of America 08/89 - 05/93 Washington, DC Degree: B.S., Biomedical Engineering High School: Hayden High School 08/85 - 05/89 Topeka, KS 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 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 Medical School: University of Health Sciences Clinical Research Award, 2002 University of Health Sciences Research Symposium Award, 1999 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 International Society for the Study of the Lumbar Spine North American Spine Society World Spine Society JOURNAL REVIEW BOARD American Family Physician Clinical Anatomy Journal of Psychosomatic Research Spine Curriculum Vitae Jason C. Eck, D.O., M.S. Page 3 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 Curriculum Vitae Jason C. Eck, D.O., M.S. Page 4 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. 2. Vaccaro AR, Eck JC. Controversies in Spine Surgery: Evidence-

Based Treatment Recommendations, New York: Thieme Medical Publishers, Inc. (in preparation) BOOK CHAPTERS: 1. Hodges SD, Eck JC: "Harvest of Fibular Shaft." In: Herkowitz HN, ed. The Cervical Spine Surgical Atlas, 2 nd 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. Huddleston PM, Zietlow S, Eck JC. "Anterior Exposures of the Lumbar Spine." In: Morrey BF and Morrey MC, eds. Master Techniques in Orthopaedic Surgery: Relevant Surgical Exposures, Philadelphia: Lippincott, Williams & Williams. 2008;315-325. 5. Huddleston PM, Eck JC. "Posterior Exposures of the Lumbar Spine." In: Morrey BF and Morrey MC, eds. Master Techniques in Orthopaedic Surgery: Relevant Surgical Exposures, Philadelphia: Lippincott, Williams & Williams. 2008;315-325. 6. Rao RD, Currier BL, Albert TJ, Bono CM, Marawar SV, Poelstra KA, Eck JC. "Degenerative Cervical Spondylosis: Clinical Syndromes, Pathogenesis, and Management." In: Instructional Course Lectures 2008;57: 446-469. 7. Eck JC, Nassr A. "Spine Tumors." www.spinefellows.com 8. Currier BL, Eck JC. "C1-C2 Transarticular Fixation." In: J Wang, ed. Advanced Reconstruction: Spine (in press) 9. Eck JC, Vaccaro AR. "Introduction to Evidence-Based Medicine." In: Vaccaro AR and Eck JC, eds. Controversies in Spine Surgery: Evidence-Based Treatment Recommendations, New York: Thieme Medical Publishers, Inc. (in preparation) 10. Eck JC. "Vertebral compression fractures: Surgery versus conservative care; Does augmentation increase future fracture risk; Vertebroplasty vs. Kyphoplasty." In: Vaccaro AR and Eck JC, eds. Controversies in Spine Surgery: Evidence-Based Treatment Recommendations, New York: Thieme Medical Publishers, Inc. (in preparation) Curriculum Vitae Jason C. Eck, D.O., M.S. Page 5 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. 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. Curriculum Vitae Jason C. Eck, D.O., M.S. Page 6 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. Curriculum Vitae Jason C. Eck, D.O., M.S. Page 7 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

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Tendon Rupture in a Female. A Case Report and Review of the Literature." *Am J Orthop* 2009;(in press) 68. Lee JY, Nassr A, Eck JC, Vaccaro AR. "Controversies in the Treatment of Cervical Spine Dislocations." *Spine J* 2009;(in press) 69. Dekutoski MB, Eck JC. "En Bloc Resection of Primary Spinal Tumors." *Sem Spine Surg* 2009;(in press) 70. Yaszemski MJ, Eck JC. "Sacrectomy and Spinopelvic Reconstruction." *Sem Spine Surg* 2009;(in press) 71. Nassr A, Eck JC, Ponnappan RK, Zanon RR, Donladson WF, Kang JD. "The Incidence of C5 Palsy After Multilevel Cervical Decompression Procedures: A Review of 750 Consecutive Cases." *Spine* (submitted) 72. Eskander M, Drew J, Eck JC. "Intra- and Epidural Abscess Presenting as Sepsis Two Weeks Following Uncomplicated Lumbar Microdiscectomy: A Case Report." *Spine* (submitted) 73. Stanton P, Muzumdar A, Ingalhalikar A, Khalil S, Nachtigall D, Eck JC. "The Biomechanical Effect of Sagittal Alignment on Adjacent Spinal Segments Following Cervical Fusion." *Spine* (in preparation) 74. Stanton P, Eck JC. "Effect of Kyphoplasty on Postoperative Pulmonary Function Following Single Level Osteoporotic Compression Fractures." *Spine* (in preparation) 75. Eck JC, Gomez BA, Yaszemski MJ. "The Effects of Postoperative Ketorolac on Wound Healing in a Rat Model." (in preparation) 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. Curriculum Vitae Jason C. Eck, D.O., M.S. Page 10 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. 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. 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. 11. 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, HI. 7. Congenital and Juvenile Deformity Session Moderator. Mayo Clinic International Spine Symposium, January 27-31, 2008. Kauai, HI. 8. Spinal Cord Monitoring - Breakfast Session Moderator. Mayo Clinic International Spine Symposium, January 27-31, 2008. Kauai, HI. 9. "Spine Biomechanics." Globus Medical Training Course. April 1, 2008. Philadelphia, PA. 10. "Cervical Myelopathy - An Update." American Osteopathic Academy of Orthopaedics. September 11-14, 2008. Boca Raton, FL. Curriculum Vitae Jason C. Eck, D.O., M.S. Page 11 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,

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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. 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. 46. Eck JC, Currier BL, Yaszemski MJ, Dekutoski MB. "Radiographic and Biomechanical Evaluation of C1 Lateral Mass and C1-C2 Transarticular Screws to Compare Pullout Strength and Risk of Injury to the Internal Carotid Artery." AO Spine North America Fellow's Forum; April 3-5, 2008; Banff, Alberta, Canada. 47. Nassr A, Eck JC, Ponnappan RK, Zanon RR, Donladson WF, Kang JD. "The Incidence of C5 Palsy After Multilevel Cervical Decompression Procedures: A Review of 750 Consecutive Cases." Cervical Spine Research Society; December 4-6, 2008; Austin, TX. American Academy of Orthopaedic Surgeons; February 25-28, 2009; Las Vegas, NV 48. Eck JC, Stanton P. "Effect of Kyphoplasty on Postoperative Pulmonary Function Following Single Level Osteoporotic Compression Fractures." International Society for the Study of the Lumbar Spine; May 4-8, 2009, Miami, FL (submitted) Spine study Group; May 28-31, 2009, Palm Beach, FL (submitted) International Meeting of Advanced Spine Techniques; July 15-18, 2009, Vienna, Austria (submitted) 49. Eck JC, Stanton P, Muzumdar A, Ingallhalikar A, Khalil S, Nachtigall D. "The Biomechanical Effect of Sagittal Alignment on Adjacent Spinal Segments Following Cervical Fusion." International Meeting of Advanced Spine Techniques; July 15-18, 2009, Vienna, Austria (submitted) 50. Eck JC, Eskander M, Drew J. "Intra- and epidural abscess presenting as sepsis two weeks following uncomplicated lumbar microdiscectomy." International Meeting of Advanced Spine Techniques; July 15-18, 2009, Vienna, Austria (submitted) 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. Curriculum Vitae Jason C. Eck, D.O., M.S. Page 17 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. 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. Curriculum Vitae Jason C. Eck, D.O., M.S. Page 18 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. 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. Mayo Clinic International Spine Symposium; January 27-31, 2008; Kauai, Hawaii. 50. AO Advanced Concepts in the Management of Spinal Disorders; February 21-24, 2008; Sun Valley, ID. 51. AO Spine North America Fellow's Forum; April 3-5, 2008; Banff, Alberta, Canada. 52. X-Stop training course; June 25, 2008; Rochester, MN. 53. Medtronic Prestige Cervical Arthroplasty Training Course; September 6, 2008; Boston, MA. 54. American Osteopathic Academy of Orthopaedics; September 11-14, 2008; Boca Raton, FL. 55. Synthes ProDisc-C Training Course. November 23, 2008; New York, NY. Curriculum Vitae Jason C. Eck, D.O., M.S. Page 19 56. American Academy of Orthopaedic Surgeons; February 25-28, 2009; Las Vegas, NV.

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