

Curriculum Vitae

Joshua D. Auerbach, M.D.

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Education: B.S. Yale University (Biology), New Haven, CT
M.D. Mount Sinai School of Medicine, New York, NY

Postgraduate Training and Fellowship Appointments:

Intern in General Surgery and Orthopaedic Surgery,
Hospital of the University of Pennsylvania, Philadelphia

Resident in Orthopaedic Surgery,
Hospital of the University of Pennsylvania, Philadelphia

Academic Research Fellowship,
McKay Orthopaedic Laboratories,
University of Pennsylvania, Philadelphia
Principal Investigator: Dawn M. Elliott, PhD

Adult and Pediatric Spinal Reconstructive Surgery Fellowship,
Washington University School of Medicine/Barnes-Jewish Hospital,
St. Louis, MO

Present Position: Chief of Spine Surgery
Department of Orthopaedics
Bronx-Lebanon Hospital Center
Albert Einstein College of Medicine
Bronx, NY

Faculty Appointments:

Instructor in Orthopaedic Surgery,
Department of Orthopaedic Surgery,
University of Pennsylvania, Philadelphia, PA

Clinical Instructor, Department of Orthopaedic Surgery
Washington University School of Medicine, St. Louis, MO

Assistant Professor, Department of Orthopaedic Surgery
Albert Einstein College of Medicine, Bronx, NY

Licensure: New York, Missouri, Pennsylvania

Board Certification: Board-Eligible, American Board of Orthopaedic Surgery

Awards, Honors and Membership in Honorary Societies:

- 1998 *Graduation with Honors in Biology, Yale University*
- 2000 *Research Scholars Program Summer Fellowship, (Mount Sinai School of Medicine)*
- 2002 *Graduation with Distinction in Research, (Mount Sinai School of Medicine)*
- 2005 *Finalist for Russell Hibbs Award in Basic Science, (Scoliosis Research Society, 2005)*
“Towards an evidence-based approach to imaging in evaluation of back pain in children.”
- 2005 *Hansjoerg Wyss Foundation Oral Presentation Award at the Excellence in Spine Conference, Davos, Switzerland (best oral presentation).*
“Noninvasive determination of nucleus pulposus proteoglycan content using T1ρ MRI.”
- 2005 *20th Annual Smith & Nephew Resident Research Competition Award Recipient,*
“Spinal Cord Dimensions in Children with Klippel-Feil Syndrome: A Controlled, Blinded Radiographic Analysis with Implications for Neurologic Outcomes.”
- 2005 *20th Annual Smith & Nephew Resident Research Competition Award Recipient,*
“Evaluation of spinal kinematics following lumbar total disc replacement and circumferential fusion using in vivo fluoroscopy.”
- 2005 *Orthopaedic Research and Education Foundation (OREF)/Bayer Pharmaceuticals Resident Research Award in Blood Management Research,*
“Two-incision MIS THA versus small-incision mini-posterolateral THA: A comparison of surgical stress and thrombotic potential.”
- 2006 *First Prize (Clinical Research Section) -University of Pennsylvania Annual Research Symposium,*
“Detection of impending neurologic injury during surgery for adolescent idiopathic scoliosis: A comparison of transcranial motor and somatosensory evoked potential monitoring in 1121 consecutive cases.”
- 2006 *First Prize, OREF/NY Metropolitan Area Resident Research Competition*
“Detection of impending neurologic injury during surgery for adolescent idiopathic scoliosis: A comparison of transcranial motor and somatosensory evoked potential monitoring in 1121 consecutive cases.”
- 2006 *21st Annual Smith & Nephew Resident Research Competition Award Recipient,*
“Detection of impending neurologic injury during surgery for adolescent idiopathic scoliosis: A comparison of transcranial motor and somatosensory evoked potential monitoring in 1121 consecutive cases.”
- 2006 *Russell Hibbs Award in Clinical Science - Best Clinical Presentation (Scoliosis Research Society, 2006)*
“Detection of impending neurologic injury during surgery for adolescent idiopathic scoliosis: A comparison of transcranial motor and somatosensory evoked potential monitoring in 1121 consecutive cases.”
- 2007 *Stanley Chung Award for Excellence in Research,*

- The Children's Hospital of Philadelphia, Department of Orthopaedic Surgery
- 2007 *Scoliosis Research Society (SRS) Research Grant Award*,
 "An in vivo porcine animal model to detect spinal cord vascular flow in spinal deformity surgery using transcranial motor evoked potential monitoring."
- 2008 *Recipient of the 21st Century Development Grant*,
 (Cervical Spine Research Society, 2008)
 "In vivo quantification of adjacent level cervical disc integrity following anterior cervical decompression and fusion and laminaplasty: A matched pair analysis and comparison using T1rho-weighted MRI."
- 2008 *Recipient of the Dubousset Scholarship*
 (Scoliosis Research Society)
- 2009 *Finalist for Russell Hibbs Award in Basic Science*,
 (Scoliosis Research Society, 2009)
 "Quantification of intradiscal pressures below thoracolumbar spinal fusion constructs: Is there evidence to support saving a level?"
- 2009 *Finalist for Russell Hibbs Award in Clinical Science*,
 (Scoliosis Research Society, 2009)
 "Major complications of three-column osteotomies in 240 consecutive spinal deformity patients."
- 2009 *Finalist for Russell Hibbs Award in Clinical Science*,
 (Scoliosis Research Society, 2009)
 "Pulmonary function in adolescent idiopathic scoliosis relative to the surgical procedure: A 10-year follow-up analysis."
- 2009 *Recipient of the Hansjorg Wyss Foundation Research Grant Award*,
 (AO Spine Foundation)
 "Disc Degeneration Below Arthrodesis in Adolescent Idiopathic Scoliosis at a minimum 10 year follow-up."
- 2010 *Best Poster, Spine Arthroplasty Society, 2010*
 "The Feasibility of Radiation-free Diagnostic Monitoring in Adolescent Idiopathic Scoliosis Using a Novel, Upright Positional MRI Protocol."
- 2010 *Resident/Fellow Paper Award, (presented by Okechukwu Anakwenze, MD)*,
 (Eastern Orthopaedic Association, 2010)
 "Fusion can prevent spinal deformity following intramedullary spinal cord tumor excision in children."

Memberships in Professional and Scientific Societies:

National Societies:

Scoliosis Research Society
 American Academy of Orthopaedic Surgeons
 Spine Arthroplasty Society
 AO Spine International
 North American Spine Society
 Orthopaedic Research Society

Local Societies:

Bronx County Medical Society
 Medical Society of the State of New York
 Yale Club of New York City

Editorial Positions:

- 2003- Special Projects Committee,
University of Pennsylvania Orthopaedic Journal (UPOJ)
- 2004-5 Article Solicitation Committee,
University of Pennsylvania Orthopaedic Journal (UPOJ)
- 2005 Co-Guest Editor, *Seminars in Spine Surgery*
December, 2005, Lumbar Instability
(with Richard A. Balderston, MD)
- 2007 Co-Guest Editor, *Seminars in Spine Surgery*
June, 2007, Imaging Techniques
(with Richard A. Balderston, MD)

Academic Committees at the University of Pennsylvania and Affiliated Hospitals:

- 2004-8 Member, Resident Selection Program Committee, Department of
Orthopaedic Surgery

Major Teaching and Clinical Responsibilities at the University of Pennsylvania and Affiliated Hospitals:

- 2004-5 University of Pennsylvania School of Medicine Medical Students (8
students/week, 3 hours/week) Instructor, Orthopaedics 200 module

Lectures by Invitation:

- September 15, 2000 “Septic arthritis of the glenohumeral joint,”
- Grand Rounds Presentation, Department of Orthopaedic Surgery, Mount Sinai
Hospital, New York, NY
- March 15, 2001 “Current concepts in bone grafting,”
- Combined Mount Sinai-NYU Orthopaedic Meeting, Hospital for Joint
Diseases, New York, NY
- June 8, 2002 Keynote Speaker, Graduation Day, Woodland Country Day School, Bridgeton,
NJ
- February 9, 2005 “Evaluation of spinal kinematics following lumbar total disc replacement and
circumferential fusion using in vivo fluoroscopy,”
– Biomechanical Engineering Seminar, McKay Orthopaedic Laboratories,
University of Pennsylvania, Philadelphia, PA
- April 13, 2005 “Evaluation of spinal kinematics following lumbar total disc replacement and
circumferential fusion using in vivo fluoroscopy,”
– Interdisciplinary Spine Journal Club, University of Pennsylvania, Philadelphia,
PA
- February 23, 2006 “Towards an evidence-based approach to imaging in evaluation of back pain in
children,”
- Grand Rounds Presentation, Department of Orthopaedic Surgery, University of
Pennsylvania, Philadelphia, PA
- August 25, 2006 “Multimodal intraoperative spinal cord monitoring in adolescent idiopathic scoliosis:
A multicenter study,”
- Philadelphia Pediatric Spine Symposium, The Children’s Hospital of Philadelphia,
Philadelphia, PA

- February 1, 2007 "T1rho-weighted MRI for the detection of early degenerative disc disease,"
- Selby Spine Conference, Park City, Utah
- May 2, 2007 "Endplate mechanics,"
- HydraFlex Nucleus Arthroplasty: Concepts and Clinical Experience, Spine Arthroplasty Society, Berlin, Germany
- February 21, 2008 "VATS versus Posterior Spinal Fusion with Thoracic Pedicle Screws in Adolescent Idiopathic Scoliosis,"
- Grand Rounds Presentation, Department of Orthopaedic Surgery, University of Pennsylvania, Philadelphia, PA
- February 21, 2008 "Does the experience level of the surgical assistant influence outcomes in scoliosis surgery?"
- Grand Rounds Presentation, Department of Orthopaedic Surgery, University of Pennsylvania, Philadelphia, PA
- May 16, 2008 "Potential applications of T1rho-weighted MRI in spinal deformities"
-Depuy Spine, World Wide Head Quarters, Raynham, MA
- March 21, 2009 "The use of T1rho-weighted MRI for preclinical and clinical trials of disc regeneration"
-Omrix Think Tank Meeting, New York, NY
- April 8, 2009 "Degenerative Conditions of the Cervical Spine"
-Grand Rounds Presentation, Department of Orthopaedic Surgery, Washington University School of Medicine, St. Louis, MO
- August 3, 2009 "Adjacent Level Degeneration: Clinical and Biomechanical Evaluation"
-Depuy Spine, World Wide Head Quarters, Raynham, MA
- September 10, 2009 "Low Back Pain and Degenerative Lumbar Spinal Disorders."
-Family Medicine Grand Rounds, Bronx-Lebanon Hospital Center, Bronx, NY
- September 17, 2009 "Identification, Evaluation, and Management of Spinal Disease."
-Internal Medicine and Neurology Grand Rounds, Bronx-Lebanon Hospital Center, Bronx, NY
- September 21, 2009 "Congenital Scoliosis."
-Pediatrics Resident Conference, Bronx-Lebanon Hospital Center, Bronx, NY
- November 2, 2009 "Early onset scoliosis."
-Pediatrics Resident Conference, Bronx-Lebanon Hospital Center, Bronx, NY
- November 3, 2009 "Evaluation and Treatment of the Growing Spine."
-Pediatrics Grand Rounds, Bronx-Lebanon Hospital Center, Bronx, NY
- November 4, 2009 "Degenerative Conditions of the Cervical Spine."
-Orthopaedic Surgery Resident Conference, Albert Einstein College of Medicine, Weiler Hospital, Bronx, NY

- January 11, 2010 “Pediatric Cervical Spinal Disorders.”
-Pediatrics Resident Conference, Bronx-Lebanon Hospital Center, Bronx, NY
- April 27, 2010 “Degenerative Conditions of the Cervical and Lumbar Spine.”
-Medical Student Lecture (Surgery Rotation, Albert Einstein College of Medicine),
Bronx-Lebanon Hospital Center, Bronx, NY
- July 22, 2010 “Degenerative Conditions of the Cervical and Lumbar Spine.”
-Medical Student Lecture (Surgery Rotation, Albert Einstein College of Medicine),
Bronx-Lebanon Hospital Center, Bronx, NY
- Sept 14, 2010 “Degenerative Conditions of the Cervical and Lumbar Spine.”
-Medical Student Lecture (Surgery Rotation, Albert Einstein College of Medicine),
Bronx-Lebanon Hospital Center, Bronx, NY
- Sept 14, 2010 “Identifying, Evaluating, and Treating Low Back Pain.”
-Lumbar Spine Symposium, TRIARQ
The Neil D. Levin Graduate Institute, New York, NY
- October 27, 2010 “Identifying, Evaluating, and Treating Cervical Spinal Disease.”
-Bronx County Medical Society, Bronx, NY
- November 9, 2010 “Degenerative Conditions of the Cervical.”
-Medical Student Lecture (Surgery Rotation, Albert Einstein College of Medicine),
Bronx-Lebanon Hospital Center, Bronx, NY

Organizing Roles in Scientific Meetings:

- May, 2008 Moderator, 8th Annual Spine Arthroplasty Society Annual Meeting, Dynamic
Posterior Stabilization, Miami, FL
- May, 2008 Co-Course Director, The University of Pennsylvania Department of Orthopaedic
Surgery Spine Cadaver Course, Synthes Spine, West Chester, PA

Bibliography:

Research Publications, peer reviewed:

1. Birnbaum S, Gobeske KT, **Auerbach J**, Taylor JR, Arnsten AFT. A role for norepinephrine in stress-induced cognitive deficits: α -1 adrenoceptor mediation in the prefrontal cortex. *Biol Psych* 1999; 46:1266-74.
2. Miller S, Cleeman E, **Auerbach JD**, Flatow EL. Comparison of intra-articular lidocaine and intravenous sedation for reduction of shoulder dislocations: A randomized, prospective study. *J Bone Joint Surg Am* 2002; 84-A:2135-2139
3. Cleeman E, Hazrati Y, **Auerbach JD**, Shubin Stein K, Hausman M, and Flatow EL. Latissimus dorsi tendon transfer for massive rotator cuff tears: A cadaveric study. *J Shoulder Elbow Surg* 2003; 12(6):539-543.
4. **Auerbach JD**, Radomisli TE, Simoncini J, Ulin RI. Variability of the metaphyseal-diaphyseal angle in tibia vara: A comparison of two methods. *J Pediatr Orthop* 2004; 24(1):75-78.

5. Klepps S, **Auerbach J**, Cahlon O, Lin J, Cleeman E, and Flatow EL. A cadaveric study on the anatomy of the deltoid insertion and its relationship to the deltopectoral approach to the proximal humerus. *J Shoulder Elbow Surg* 2004;13(3):322-327.
6. Cleeman E, **Auerbach JD**, Springfield DS. Tumors of the shoulder girdle: A review of 194 cases. *J Shoulder Elbow Surg* 2005;14(5):460-5.
7. Cleeman E, **Auerbach JD**, Klingenstein GG, Flatow EL. Septic arthritis of the glenohumeral joint: A review of 23 cases. *J Surg Orthop Adv* 2005; 14(2):102-7.
8. **Auerbach JD**, Parks ML, Levy RN. The effect of volume and pressure on femoral cement grade. *Orthopedics* 2005;28:1413-1415.
9. Chin KR, **Auerbach JD**, Adams SB, Sodl J, and Riew KD. Mastication as a cause of segmental spinal motion in common cervical orthoses. *Spine* 2006;31(4):430-4.
10. **Auerbach JD**, Johannessen W, Borthakur A, Wheaton AJ, Dolinskas CA, Balderston RA, Reddy R, Elliott DM. In vivo quantification of human lumbar disc degeneration using T(1rho)-weighted magnetic resonance imaging. *Eur Spine J* 2006;15 (Suppl 15): 338-44.
11. Johannessen W, **Auerbach JD**, Wheaton AJ, Kurji A, Reddy R, Borthakur A, Elliott DM. Assessment of human disc degeneration and proteoglycan content using T1ρ MRI. *Spine* 2006;31(11):1253-1257.
12. Wills BPD, **Auerbach JD**, Glotzbecker MP, Drummond DS, Dormans JP. Change in lordosis at the occipitocervical junction following occipitocervical fusion in skeletally immature children. *Spine* 2006;31(20):2304-9.
13. Mehta S, **Auerbach JD**, Chin KR, and Born CT. Sacral fractures. *J Am Acad Orthop Surg*. 2006 Nov;14(12):656-65.
14. Pandya NK, **Auerbach JD**, Baldwin K, Lackman RD, Chin KR. Spinal Cord Compression in a Patient with Multiple Hereditary Exostosis Caused by Breast Adenocarcinoma Metastatic to Osteochondromas of the Spine. *Spine* 2006;31(24): E920-4.
15. Wills BPD, **Auerbach JD**, Zhu Z, Caird MS, Horn BD, Flynn JM, Drummond DS, Dormans JP, Ecker ML. Comparison of Cobb angle measurement of scoliosis radiographs: Traditional versus digital acquisition. *Spine* 2007;32(1): 98-105.
16. **Auerbach JD**, McCormick FL, Mehta S, Brummett RS, Rushton SA. Posterior cervical arthrodesis for odontoid nonunion in a patient with osteopetrosis. *Spine* 2007;32(1):E34-8.
17. **Auerbach JD**, Wills BP, McIntosh TC, and Balderston RA. Evaluation of spinal kinematics following lumbar total disc replacement and circumferential fusion using *in vivo* fluoroscopy. *Spine* 2007; 32(5):527-536.
18. Schwartz DM, **Auerbach JD**, Dormans JP, Flynn J, Bowe JA, Laufer S, Shah SA, Bowen JR, Pizzutillo PD, Jones KJ, Drummond DS. Neurophysiological Detection of Impending Spinal Cord Injury During Scoliosis Surgery. *J Bone Joint Surg Am*. 2007;89:2440-2449.
19. Wang C, **Auerbach JD**, Witschey WRT, Balderston RA, Reddy R, Borthakur A. Advances in Magnetic Resonance Imaging for the assessment of degenerative disc disease of the lumbar spine. *Seminars in Spine Surgery* 2007; 19(2):65-71.
20. Boxberger JI, **Auerbach JD**, Sen S, Elliott DM. An in vivo model of reduced nucleus pulposus glycosaminoglycan content in the rat lumbar intervertebral disc. *Spine* 2008; 33(2):146-54.
21. **Auerbach JD**, Jones KJ, Fras CI, Balderston JR, Rushton SA, Chin KR. The Prevalence of Indications and Contraindications to Cervical Total Disc Replacement. *Spine J* 2008; 8: 711–716.
22. Simon SL, **Auerbach JD**, Garg S, Sutton LN, Telfeian AE, Dormans JP. Efficacy of spinal instrumentation and fusion in the prevention of post-laminectomy spinal deformity in children with intramedullary spinal cord tumors. *J Pediatr Orthop* 2008; 28(2):244-249.
23. Fras CI, **Auerbach JD**. Prevalence of lumbar total disc replacement candidates in a community-based spinal surgery practice. *J Spinal Disord Tech* 2008; 21(2):126-129.

24. Chin KR, Tomlinson DT, **Auerbach JD**, Shatsky J, Deirmengian CA. Success of Lumbar Microdiscectomy In Patients With Modic Changes and Low-Back Pain: A Prospective Pilot Study. *J Spinal Disord Tech* 2008; 21(2):139-144.
25. **Auerbach JD**, Lonner BS, Antonacci MD, Kean KE. Perioperative outcomes and complications related to teaching residents and fellows in scoliosis surgery. *Spine* 2008; 33(10):1113-8.
26. **Auerbach JD**, Hosalkar HS, Kusuma SK, Wills BPD, Dormans JP, Drummond DS. Spinal Cord Dimensions in Children with Klippel-Feil Syndrome: A Controlled, Blinded Radiographic Analysis with Implications for Neurologic Outcomes. *Spine* 2008; 33(12):1366-71.
27. **Auerbach JD**, Ahn J, Zgonis MH, Reddy SC, Ecker ML, Flynn JM. Streamlining the evaluation of low back pain in children. *Clin Orthop Relat Res.* 2008; 466(8):1971-7.
28. Rundell SA, **Auerbach JD**, Balderston RA, Kurtz SM. Total Disc Replacement Positioning Affects Facet Contact Forces and Vertebral Body Strains. *Spine* 2008;33(23):2510-7.
29. **Auerbach JD**, Namdari S, Milby AH, White AP, Reddy SC, Lonner BS, Balderston RA. The parallax effect in the evaluation of range of motion in lumbar total disc replacement. *Spine Arthroplasty Society Journal* 2008; 2(4):184-188.
30. Lonner BS, **Auerbach JD**, Levin R, Matusz D, Scharf C, Panagopoulos G, Sharan AD. Thoracoscopic Anterior Instrumented Fusion for Adolescent Idiopathic Scoliosis with Emphasis on the Sagittal Plane. *Spine J* 2009; 9(7): 523-52.
31. Lonner BS, **Auerbach JD**, Estreicher M, Milby AH, Panagopoulos G, Chang D. Video-assisted Anterior Thoracoscopic Spinal Fusion versus Posterior Spinal Fusion: A Comparative Study Utilizing the SRS-22 Outcome Instrument. *Spine* 2009; 34(2):193-198.
32. Lonner BS, **Auerbach JD**, Estreicher MB, Milby AH, Kean KE. Video-assisted thoracoscopic spinal fusion compared to posterior spinal fusion with thoracic pedicle screws for Lenke Type I adolescent idiopathic scoliosis. *J Bone Joint Surg Am* 2009; 91(2):398-408.
33. Lonner BS, **Auerbach JD**, Boachie-Adjei O, Shah SA, Hosgane N, Newton PO. Treatment of thoracic scoliosis: Are monoaxial thoracic pedicle screws the best form of fixation for correction? *Spine* 2009; 34(8):845-51.
34. **Auerbach JD**, Weidner Z, Pill SG, Mehta S, Chin KR. The mandibular angle as a landmark for identification of cervical spinal level. *Spine* 2009; 34(10):1006-11.
35. Moore RE, Dormans JP, Drummond DS, Kaplan FS, **Auerbach JD**. Chin-on-chest deformity in the malformed cervical spine of patients with fibrodysplasia ossificans progressive. *J Bone Joint Surg* 2009 Jun;91(6):1497-502.
36. Mik G, Drummond DS, Hosalkar HS, Cameron D, Agrawal N, Manteghi A, Gholve P, **Auerbach JD**. Diminished Spinal Cord Size with Congenital Scoliosis of the Thoracic Spine: A risk for neurological sequelae? *J Bone Joint Surg* 2009 Jul;91(7):1698-704.
37. Anakwenze OA, **Auerbach JD**, Milby AH, Lonner BS, Balderston RA. Sagittal cervical alignment following cervical disc arthroplasty and anterior cervical discectomy and fusion: Results of a prospective randomized controlled trial. *Spine* 2009; 34(19):2001-7.
38. Rundell SA, Guerin HL, **Auerbach JD**, Kurtz SM. Effect of nucleus replacement device properties on lumbar spine mechanics. *Spine* 2009; 34(19):2022-32.
39. Lonner BS, **Auerbach JD**, Estreicher ME, Kean KE. Thoracic pedicle screw instrumentation: The learning curve and evolution in technique in adolescent idiopathic scoliosis. *Spine (Phila Pa 1976)* 2009 Sep 15;34(20):2158-64.
40. **Auerbach JD**, Spiegel DA, Zgonis MH, Reddy SC, Drummond DS, Dormans JP, Flynn JM. The correction of pelvic obliquity in patients with cerebral palsy and neuromuscular scoliosis: Is there a benefit of anterior release prior to posterior spinal arthrodesis? *Spine* 2009; 34(21):E766-E774
41. **Auerbach JD**, Jones KJ, Milby AH, Anakwenze OA, Balderston RA. Segmental contribution towards total lumbar range of motion in disc replacement and fusions: A comparison of operative and adjacent levels. *Spine* 2009 Nov 1;34(23):2510-7.

42. Lonner BS, **Auerbach JD**, Estreicher MB, Betz RR, D'Andrea L, Crawford AH, Lenke LG, Lowe TG, Newton PO. Pulmonary function changes following various anterior approaches in the treatment of adolescent idiopathic scoliosis. *J Spinal Disord Tech* 2009; 22(8):551-8.
43. Lonner BS, **Auerbach JD**, Sponseller P, Rajadhyaksha AS, Newton PO. Variations in Pelvic and Other Sagittal Spinal Parameters as a Function of Race in Adolescent Idiopathic Scoliosis. *Spine (Phila Pa 1976)*. 2010 Feb 4. [Epub ahead of print]
44. Anakwenze OA, Namdari S, **Auerbach JD**, Weidner Z, Baldwin K, Lonner BS, Sennett BJ. Athletic performance outcomes following lumbar discectomy in professional basketball players. *Spine (Phila Pa 1976)*. 2010 Apr 1;35(7):825-8.
45. Chin KR Stieber JR, Mehta S, Cohen JD, **Auerbach JD**. The manubrium as an external guide for centralizing anterior cervical plates: Technique tips and initial experience. *Spine (Phila Pa 1976)*. 2010 Apr 1;35(7):E244-7.
46. **Auerbach JD**, Ballester CM, Hammond F, Carine ET, Balderston RA, Elliott DM. The effect of implant size and device keel on vertebral compression properties in lumbar total disc replacement. *Spine J* 2010 Apr;10(4):333-40.
47. Yoder HJ, **Auerbach JD**, Maurer PM, Erbe EM, Entrekin D, Balderston RA, Bertagnoli R, Elliott DM. Augmentation Improves Human Cadaveric Vertebral Body Compression Mechanics For Lumbar Total Disc Replacement. *Spine (Phila Pa 1976)*. 2010 Apr 20;35(9):E325-31.
48. Kamerlink JR, Quirno M, **Auerbach JD**, Milby AH, Windsor L, Dean L, Dryer JW, Errico TJ, Lonner BS. Hospital Cost Analysis of Adolescent Idiopathic Scoliosis Correction Surgery in 125 Consecutive Cases. *J Bone Joint Surg Am* 2010; 92(5):1097-104.
49. Crawford CH 3rd, Bridwell KH, Cho W, Buchowski JM, O'Shaughnessy BA, Chang MS, **Auerbach JD**. Extension of Prior Idiopathic Scoliosis Fusions to the Sacrum: A Matched Cohort Analysis of Sixty Patients With Minimum Two-Year Follow-up. *Spine* 2010; 35(20):1843-8.
50. Verma K, **Auerbach JD**, Kean KE, Chamas F, Vorsanger M, Lonner BS. Anterior spinal fusion for thoracolumbar scoliosis: comprehensive assessment of radiographic, clinical, and pulmonary outcomes on 2-years follow-up. *J Pediatr Orthop* 2010; 30:664-9.

Abstracts:

Cleeman E, Hazrati Y, **Auerbach JD**, Shubin Stein K, Strauss E, Flatow EL. Humeral head replacement in the treatment of proximal humerus fractures. *American Fracture Association, 63rd Annual Meeting*, Savannah, GA, May 3-6, 2001.

Auerbach JD, Hazrati Y, Cleeman E, Shubin Stein K, Strauss E, Flatow EL. The surgical treatment of acromioclavicular dislocations: A retrospective review. *American Fracture Association, 63rd Annual Meeting*, Savannah, GA, May 3-6, 2001.

Auerbach JD, Radomisli TE, Shah AK, Simoncini J, Ulin RI. Variability of the metaphyseal-diaphyseal angle in tibia vara: A comparison of two methods. *The Pediatric Orthopaedic Club of New York*, The New York Academy of Medicine, New York, NY, May 9, 2001.

Auerbach JD, Radomisli TE, Simoncini J, Ulin RI. Variability of the metaphyseal-diaphyseal angle in tibia vara: A comparison of two methods. *Pediatric Research Day*, Mount Sinai Hospital, New York, NY, May 16, 2001.

Cleeman E, Hazrati Y, **Auerbach JD**, Shubin Stein K, Flatow EL. Latissimus dorsi tendon transfer for massive rotator cuff tears. *Ortopedia 2001*, Havana, Cuba, November 27-December 2, 2001.

Cleeman E, Hazrati Y, **Auerbach JD**, Shubin Stein K, and Flatow EL. Latissimus dorsi tendon transfer for massive rotator cuff tears: A cadaveric study. *J South Orthop Assoc* 2002; 11(1):63 (abstract).

Cleeman E, **Auerbach JD**, Flatow EL. Septic arthritis of the glenohumeral joint: A review of 35 cases. *J South Orthop Assoc* 2002; 11(1):62 (abstract).

Miller S, Cleeman E, **Auerbach JD**, Gladstone JN, Flatow EL. A randomized prospective study comparing the use of intra-articular lidocaine versus parenteral sedation and analgesics when reducing the dislocated shoulder. *The Third Biennial American Academy of Orthopaedic Surgeons/Association of Shoulder and Elbow Surgeons Meeting*, Orlando, FL, April 4-7, 2002.

Cleeman E, **Auerbach JD**, Springfield DS. Tumors of the shoulder girdle: A review of 194 cases. *The Third Biennial American Academy of Orthopaedic Surgeons/Association of Shoulder and Elbow Surgeons Meeting*, Orlando, FL, April 4-7, 2002.

Miller S, Cleeman E, **Auerbach JD**, and Flatow EL. Comparison of intra-articular lidocaine and intravenous sedation for reduction of shoulder dislocations: A randomized, prospective study. *28th Annual American Orthopaedic Society for Sports Medicine Meeting (AOSSM)*, Orlando, FL, July 2002.

Daffner S, **Auerbach J**, Hilibrand A, Vaccaro A, Albert T. Maintenance of reduction in patients undergoing transforaminal lumbar interbody fusion for isthmic spondylolisthesis. *Spine J* 2002; 2(5 Suppl):59-60 (abstract).

Auerbach JD, Klingenstein G, Cleeman E, Springfield DS. Long-term follow up after surgical treatment for enchondroma of the proximal humerus. *The 71st Annual Meeting of the American Academy of Orthopaedic Surgeons*, San Francisco, CA, March 10-14, 2004.

Auerbach JD, McIntosh TC, Wills B, Balderston RA. In vivo fluoroscopy to evaluate spinal kinematics after lumbar total disc arthroplasty, spinal fusion and in normal healthy volunteers. *The 4th Annual Spine Arthroplasty Society (SAS) Meeting*, Vienna, Austria, May 4-7, 2004.

Elliott DM, Yerramalli C, Johannessen W, **Auerbach J**, Chin K, Vresilovic E, The role of nucleus pulposus mechanics in degeneration, Increased crosslinking and stiffness may be more important than decreased proteoglycan and pressure. *Proceedings of the International Society for the Study of Lumbar Spine, Porto, Portugal*, p. 104, 2004

Pedowitz DI, **Auerbach JD**, Gibson B, Vresilovic EJ, Guerin HL, Johannessen W, Rogers D, and Elliott DM. Correlation of MRI and gross morphologic grading of lumbar intervertebral discs. *Trans Orthop Res Soc*, 2005: p.378 (abstract).

Auerbach JD, Zgonis MH, Reddy SC, Ahn J, Ecker ML, Flynn JM. Towards an evidence-based approach for imaging in evaluation of back pain in children. *Pediatric Orthopaedic Society of North American (POSNA) Annual Meeting*, Ottawa, Ontario, Canada, May 13, 2005 - May 15, 2005.

Auerbach JD, McIntosh TC, Wills B, Balderston RA. Lumbar disc arthroplasty versus fusion: Two-year results from a randomized prospective study. *The 5th Annual Spine Arthroplasty Society (SAS) Meeting*, New York, NY, May 4-7, 2005.

Fras CI, **Auerbach JD**. Prevalence of lumbar total disc replacement candidates in a community-based spinal surgery practice. *Proceedings of the International Society for the Study of Lumbar Spine*, New York, p. 29, 2005.

Auerbach JD, Zgonis MH, Reddy SC, Ahn J, Ecker ML, Flynn JM. Towards an evidence-based approach for imaging in evaluation of back pain in children. *Proceedings of the International Society for the Study of Lumbar Spine*, New York, p. 46, 2005.

Auerbach JD, Wills BP, McIntosh TC, and Balderston RA. Lumbar disc arthroplasty versus fusion: Two-year results from a randomized prospective study. *Proceedings of the International Society for the Study of Lumbar Spine*, New York, p. 103, 2005.

Auerbach JD, Wills BP, McIntosh TC, and Balderston RA. In vivo fluoroscopy to evaluate spinal kinematics after total disc arthroplasty and circumferential fusion using in vivo fluoroscopy. *Proceedings of the International Society for the Study of Lumbar Spine*, New York, p. 219, 2005.

Auerbach JD, Pedowitz DI, Gibson BW, Vresilovic EJ, Guerin HL, Johannessen W, Wright A, Rogers K, Elliott DM. The correlation of MRI and gross morphologic grading of lumbar intervertebral discs. *Proceedings of the International Society for the Study of Lumbar Spine*, New York, p. 220, 2005.

Johannessen W, **Auerbach JD**, Wheaton AJ, Kurji A, Reddy R, Borthakur A, Elliott DM. Non-invasive determination of nucleus pulposus proteoglycan content using T1rho MRI, ECMVI/SRN: *The Spinal Motion Segment conference*, Davos, Switzerland, 2005 (Hansjoerg Wyss Award for Oral Presentation)

Chin KR, **Auerbach JD**, Adams SB, Sodl J, and Riew KD. Mastication as a cause of segmental spinal motion in common cervical orthoses. *International Meeting on Advanced Spine Techniques (IMAST)*, Banff, Canada, July 7-9, 2005.

Fras CI, **Auerbach JD**. Lumbar disc replacement candidate prevalence in a community-based spinal surgery practice. *International Meeting on Advanced Spine Techniques (IMAST)*, Banff, Canada, July 7-9, 2005.

Wills BP, **Auerbach JD**, Zhu X, Caird MS, Horn BD, Flynn JM, Drummond DS, Dormans JP, Ecker ML. A statistical comparison of Cobb angle measurements in traditionally versus digitally acquired scoliosis radiographs. *International Meeting on Advanced Spine Techniques (IMAST)*, Banff, Canada, July 7-9, 2005.

Boxberger JI, Sen S, **Auerbach JD**, Yerramalli CS, Elliott DM. Nucleus pulposus glycosaminoglycan loss is correlated with changes in motion segment axial mechanics. *Philadelphia Spine Research Symposium*. Philadelphia, Pennsylvania, September 27, 2005.

Auerbach JD, Wills BPD, McIntosh TC, Balderston RA. Evaluation of spinal kinematics following lumbar total disc replacement and circumferential fusion using in vivo fluoroscopy. *Spine J* 2005;5(4S):60S (abstract).

Auerbach JD, McIntosh TC, Wills BPD, Balderston RA. Lumbar disc replacement versus fusion: longitudinal two-year results from a randomized prospective study. *Spine J* 2005;5(4S):59S-60S (abstract).

Fras CI, **Auerbach JD**. Lumbar disc replacement candidate prevalence in a community-based spinal surgery practice. *Spine J* 2005;5(4S):59S (abstract).

Auerbach JD, Johannessen W, Wheaton AJ, Reddy R, Borthakur A, Dolinskas CA, Balderston RA, Elliott DM. A novel, quantitative in vivo method to detect early disc degeneration using T1 ρ MRI. *Spine J* 2005;5(4S):23S-24S (abstract).

Johannessen J, **Auerbach JD**, Wheaton AJ, Kurji A, Reddy R, Borthakur A, Elliott DM. Quantification of glycosaminoglycan in the intervertebral disc using T1 ρ MRI. *2005 Annual Fall Meeting of the Biomedical Engineering Society*, Baltimore, MD, September 28-October 1, 2005.

Boxberger JI, Sen S, **Auerbach JD**, Yerramalli CS, Elliott DM. Glycosaminoglycan content affects intervertebral disc neutral zone mechanics in axial loading. *2005 Annual Fall Meeting of the Biomedical Engineering Society*, Baltimore, MD, September 28-October 1, 2005.

Auerbach JD, Zgonis MH, Reddy SC, Ahn J, Ecker ML, Flynn JM. Towards an evidence-based approach for imaging in evaluation of back pain in children. *Scoliosis Research Society*, Miami, FL, October 27-30, 2005.

Auerbach JD, Kusuma SK, Hosalkar HS, Wills BPD, Chin KR, Dormans JP, Drummond DS. Spinal Cord Dimensions in Children with Klippel-Feil Syndrome: A Controlled, Blinded Radiographic Analysis with Implications for Neurologic Outcomes. *Scoliosis Research Society*, Miami, FL, October 27-30, 2005.

Auerbach JD, Buck DW, Garg S, Simon SL, Sutton LN, Sponseller PD, Dormans JP. Fusion can prevent spinal deformity following intramedullary spinal cord tumor excision in children. *Scoliosis Research Society*, Miami, FL, October 27-30, 2005.

Auerbach JD, Zgonis MH, Reddy SC, Yates FW, Spiegel DA, Drummond DS, Dormans JP, Flynn JM. Spinal fusion using the Unit Rod with and without anterior release for scoliosis in patients with cerebral palsy. *Scoliosis Research Society*, Miami, FL, October 27-30, 2005.

Auerbach JD, Kusuma SK, Hosalkar HS, Wills BPD, Chin KR, Dormans JP, Drummond DS. Spinal Cord Dimensions in Children with Klippel-Feil Syndrome: A Controlled, Blinded Radiographic Analysis with Implications for Neurologic Outcomes. *Cervical Spine Research Society*, San Diego, CA, December 1-3, 2005.

Chin KR, **Auerbach JD**, Adams SB, Sodl J, and Riew KD. Mastication as a cause of segmental spinal motion in common cervical orthoses. *Cervical Spine Research Society*, San Diego, CA, December 1-3, 2005.

Johannessen W, **Auerbach JD**, Wheaton AJ, Borthakur A, Reddy R, Elliott DM. Spin-lock (T1 ρ) MRI as a quantitative measure of intervertebral disc degeneration, *Tran Orthop Res Soc*, 2006, p.16 (abstract).

Fras CI, **Auerbach JD**. Lumbar Total Disc Replacement: Candidate Prevalence in a Community-Based Spinal Surgery Practice. *American Academy of Orthopaedic Surgeons*, Chicago, IL, March 22– 26, 2006.

Auerbach JD, Zgonis MH, Reddy SC, Ahn J, Ecker ML, Flynn JM. Towards an evidence-based approach for imaging in evaluation of back pain in children. *American Academy of Orthopaedic Surgeons*, Chicago, IL, March 22– 26, 2006.

Auerbach JD, Jones KJ, Flynn JM, Schwartz DM, El-Gazzar Y, McPartland T, Bowe JA, Pelchovitz DJ, Pizzutillo PD, Dormans JP, Drummond DS. Multimodality spinal cord monitoring during surgical correction of scoliosis: A review of 488 cases. *Pediatric Orthopaedic Society of North American (POSNA) Annual Meeting*, San Diego, CA, May 2-6, 2006.

Auerbach JD, Kusuma SK, Hosalkar HS, Wills BPD, Chin KR, Dormans JP, Drummond DS. Spinal Cord Dimensions in Children with Klippel-Feil Syndrome: A Controlled, Blinded Radiographic Analysis with Implications for Neurologic Outcomes. *Pediatric Orthopaedic Society of North American (POSNA) Annual Meeting*, San Diego, CA, May 2-6, 2006.

Chin KR, **Auerbach JD**. Changes in Lumbar Sagittal Alignment with the Lithotomy (Da Vinci) Position for Anterior Access Surgery. *6th Annual Spine Arthroplasty Society Meeting*, Montreal, Canada, May 9-13, 2006.

Auerbach JD, Zgonis MH, Ballester CM, Kurichi JE, Balderston RA. The parallax effect on Cobb angle measurements in lumbar total disc replacement. *6th Annual Spine Arthroplasty Society Meeting*, Montreal, Canada, May 9-13, 2006.

Boxberger JI, **Auerbach JD**, Sen S, Elliott DM. A new in vivo model of disc degeneration in the rat lumbar spine. *2006 ASME Summer Bioengineering Conference*, Amelia Island, Florida, June 21-25, 2006.

Auerbach JD, Ballester CM, Carine ET, Hammond F, Balderston RA, Elliott DM. Lumbar vertebral endplate biomechanics are affected by disc replacement size. *21st Annual North American Spine Society Meeting*, Seattle, WA, September 26-20, 2006.

Auerbach JD, Schwartz DM, Drummond DS, Jones KJ, Flynn JM, El-Gazzar Y, McPartland T, Bowe JA, Laufer S, Pizzutillo PD, Bowen JR, Dormans JP. Detection of impending neurologic injury during surgery for adolescent idiopathic scoliosis: A comparison of transcranial motor and somatosensory evoked potential monitoring in 1121 consecutive cases. *41st Annual Scoliosis Research Society Meeting*, Monterey, CA, September 13-16, 2006.

Auerbach JD, Kusuma SK, Hosalkar HS, Wills BPD, Chin KR, Dormans JP, Drummond DS. Spinal Cord Dimensions in Children with Klippel-Feil Syndrome: Implications for Neurologic Outcomes. *American Academy of Orthopaedic Surgeons Annual Meeting*, San Diego, CA, February 14 - 18, 2007.

Auerbach JD, Schwartz DM, Drummond DS, Jones KJ, Flynn JM, El-Gazzar Y, McPartland T, Bowe JA, Laufer S, Pizzutillo PD, Bowen JR, Dormans JP. tceMEP vs SSEP in the detection of impending neurologic injury in scoliosis surgery. *American Academy of Orthopaedic Surgeons Annual Meeting*, San Diego, CA, February 14 - 18, 2007.

Auerbach JD, Schwartz DM, Drummond DS, Jones KJ, Flynn JM, El-Gazzar Y, McPartland T, Bowe JA, Laufer S, Pizzutillo PD, Bowen JR, Dormans JP. Transcranial motor evoked potential monitoring to detect impending spinal cord injury in scoliosis surgery: The new standard of care? *The Howard H. Steel Conference: Injuries and Dysfunction of the Spinal Cord in Children*, Lake Buena Vista, Florida, November 29 – December 2, 2006.

Auerbach JD, Ballester CM, Hammond F, Carine ET, Balderston RA, Elliott DM. Effect of implant size on lumbar vertebral biomechanics in total disc replacement. *Orthopaedic Research Society Annual Meeting*, San Diego, CA, February 11-14, 2007.

Boxberger JI, **Auerbach JD**, Sen S, Elliott DM. An in vivo model of reduced nucleus glycosaminoglycan in the rat lumbar disc. *Orthopaedic Research Society Annual Meeting*, San Diego, CA, February 11-14, 2007

Auerbach JD, Jones KJ, Balderston RA. Segmental contribution towards total lumbar range of motion in disc replacement: A comparison of operative and adjacent levels. *International Society for the Study of Lumbar Spine*, Hong Kong, June 10-14, 2007.

Auerbach JD, Yoder JH, Maurer PM, Erbe EM, Entrekin D, Balderston RA, Bertagnoli R, Elliott DM. Vertebral body augmentation with Cortoss improves compression biomechanics for lumbar disc arthroplasty. *International Society for the Study of Lumbar Spine*, Hong Kong, June 10-14, 2007.

Bowden AE, **Auerbach JD**, Rundell SA, Balderston RA. Surgical positioning of the ProDisc influences vertebral cancellous bone stresses and endplate strains. *International Society for the Study of Lumbar Spine*, Hong Kong, June 10-14, 2007.

Auerbach JD, Ballester CM, Hammond F, Carine ET, Balderston RA, Elliott DM. Effect of Implant Size on Subfailure Vertebral Endplate Compression Mechanics in Lumbar Total Disc Replacement. *7th Annual Spine Arthroplasty Society Meeting*, Berlin, Germany, May 1-4, 2007.

Auerbach JD, Yoder JH, Maurer PM, Erbe EM, Entrekin D, Balderston RA, Bertagnoli R, Elliott DM. Augmentation with Cortoss improves vertebral compression biomechanics for lumbar disc arthroplasty. *7th Annual Spine Arthroplasty Society Meeting*, Berlin, Germany, May 1-4, 2007.

Auerbach JD, Jones KJ, Balderston RA. Segmental contribution towards total lumbar range of motion in disc replacement and fusions: A comparison of operative and adjacent levels. *7th Annual Spine Arthroplasty Society Meeting*, Berlin, Germany, May 1-4, 2007.

Rundell SA, **Auerbach JD**, Bowden AE, Balderston RA. Total disc replacement changes facet contact stresses in extension, lateral bending, and axial rotation. *7th Annual Spine Arthroplasty Society Meeting*, Berlin, Germany, May 1-4, 2007.

Rundell SA, **Auerbach JD**, Bowden AE, Balderston RA. Effects of ProDisc positioning on lumbar kinematics as determined using a specimen-specific finite element model. *7th Annual Spine Arthroplasty Society Meeting*, Berlin, Germany, May 1-4, 2007.

Auerbach JD, Lonner BS, Antonacci MD, Dyett DS, Gold R. Perioperative outcomes and complications related to the surgical assistant in scoliosis surgery: Does experience matter? *14th International Meeting on Advanced Spine Techniques (IMAST)*, Paradise Island, Bahamas, July 11-14, 2007.

Auerbach JD, Yoder JH, Maurer PM, Erbe EM, Entrekin D, Balderston RA, Bertagnoli R, Elliott DM. Augmented motion preservation (AMP) with Cortoss: A biomechanical analysis in lumbar disc replacement. *14th International Meeting on Advanced Spine Techniques (IMAST)*, Paradise Island, Bahamas, July 11-14, 2007.

Auerbach JD, Diab M, Sanders JO, Ibrahim KN, Drummond DS, Dormans JP. Variability in spinal cord monitoring practice patterns in adolescent idiopathic scoliosis. *14th International Meeting on Advanced Spine Techniques (IMAST)*, Paradise Island, Bahamas, July 11-14, 2007.

Yoder JH, **Auerbach JD**, Maurer PM, Erbe EM, Entrekin D, Balderston RA, Bertagnoli R, Elliott DM. Augmentation With Cortoss Improves Vertebral Body Compression Biomechanics For Lumbar Total Disc Replacement. *2007 Summer Bioengineering Conference, American Society of Mechanical Engineers (ASME)*, Keystone, CO, June 20-24, 2007.

Lonner BS, **Auerbach JD**, Estreicher MB. Comparison of video-assisted thoracoscopic spinal fusion versus posterior spinal fusion with thoracic pedicle screws for Lenke Type I adolescent idiopathic scoliosis. *42nd Annual Scoliosis Research Society Meeting*, Edinburgh, Scotland, September 4-8, 2007.

Guerin HL, Heinly JN, **Auerbach JD**, Siskey RL, Lonner BS, Villaraga ML, Kurtz SM. Degeneration and anisotropy affect tensile properties of human intervertebral disc cartilaginous endplate. *Spine Research Symposium, Philadelphia Spine Research Society*, Philadelphia, PA, October 9, 2007.

Rundell S, **Auerbach JD**, Balderston RA, Kurtz S. Total disc replacement positioning affects facet contact forces and vertebral body strains. *Spine Research Symposium, Philadelphia Spine Research Society*, Philadelphia, PA, October 9, 2007.

Boxberger JI, **Auerbach JD**, Sen S, Elliott DM. An in vivo model of reduced glycosaminoglycan in the rat lumbar disc. *Spine Research Symposium, Philadelphia Spine Research Society*, Philadelphia, PA, October 9, 2007.

Auerbach JD, Lonner BS, Antonacci MD, Gold R. Is the experience level of the surgical assistant in scoliosis surgery a risk factor for perioperative complications? *22nd Annual North American Spine Society Meeting*, Austin, TX, October 23-27, 2007.

Auerbach JD, Lonner BS, Estreicher M, Dyett DS. Radiographic and clinical outcomes of video-assisted thoracoscopic spinal fusion versus posterior spinal fusion with thoracic pedicle screws for Lenke type I adolescent idiopathic scoliosis. *22nd Annual North American Spine Society Meeting*, Austin, TX, October 23-27, 2007.

Auerbach JD, Milby AH, Balderston RA. Preoperative disc height as a predictor of success in lumbar disc replacement or fusion surgery. *22nd Annual North American Spine Society Meeting*, Austin, TX, October 23-27, 2007.

Auerbach JD, Milby AH, Weinberg AD, Balderston RA. Segmental contribution towards total cervical range of motion: A comparison of cervical disc arthroplasty and fusion. *22nd Annual North American Spine Society Meeting*, Austin, TX, October 23-27, 2007.

Auerbach JD, Jones KJ, Balderston RA. Segmental contribution towards total lumbar range of motion in disc replacement and fusions. *22nd Annual North American Spine Society Meeting*, Austin, TX, October 23-27, 2007.

Lonner BS, **Auerbach JD**, Boachie-Adjei O, Shah SA, Hosgane N, Newton PO. Treatment of thoracic scoliosis: Are monoaxial thoracic pedicle screws the best form of fixation for correction? *22nd Annual North American Spine Society Meeting*, Austin, TX, October 23-27, 2007.

Guerin HL, Heinly JN, **Auerbach JD**, Siskey RL, Lonner BS, Villaraga ML, Kurtz SM. Human Intervertebral Disc Cartilaginous Endplate Tensile Mechanical Properties Are Anisotropic and Degeneration Dependent. *The 54th Annual Meeting of the Orthopaedic Research Society*, San Francisco, California, March 2-5, 2008.

Rundell S, **Auerbach JD**, Balderston RA, Kurtz S. Total Disc Replacement Positioning Affects Facet Contact Forces and Vertebral Body Strains. *The 54th Annual Meeting of the Orthopaedic Research Society*, San Francisco, California, March 2-5, 2008.

Auerbach JD, Lonner BS, Antonacci MD, Kean KE. Does the experience level of the surgical assistant influence outcomes in scoliosis surgery? *The 75th Annual Meeting of the American Academy of Orthopaedic Surgeons*, San Francisco, CA, March 5-9, 2008.

Lonner BS, **Auerbach JD**, Estreicher MA, Kean KE. VATS versus Posterior Spinal Fusion with Thoracic Pedicle Screws in Adolescent Idiopathic Scoliosis. *The 75th Annual Meeting of the American Academy of Orthopaedic Surgeons*, San Francisco, CA, March 5-9, 2008.

Mik G, Manteghi A, **Auerbach JD**, Gholve P, Drummond DS. Thoracic spinal cord size in children with congenital scoliosis vs age matched controls. *The 75th Annual Meeting of the American Academy of Orthopaedic Surgeons*, San Francisco, CA, March 5-9, 2008.

Guerin HL, Heinly JN, **Auerbach JD**, Siskey RL, Lonner BS, Villaraga ML, Kurtz SM. Identifying Appropriate Interventional Timepoints for Nucleus Pulposus Replacements: Impact of Degeneration-Dependent Mechanical Properties of the Cartilaginous Endplate. *The 8th Annual Meeting of the Spine Arthroplasty Society*, Miami, FL, May 5-9, 2008.

Auerbach JD, Wang C, Milby AH, Guerin HL, Heinly JH, Lonner BS, Elliott DM, Borthakur A. A novel quantitative measure of facet joint integrity using T1rho MRI. *The 8th Annual Meeting of the Spine Arthroplasty Society*, Miami, FL, May 5-9, 2008.

Rundell SA, **Auerbach JD**, Balderston RA, Kurtz SM. Evaluation of the influence of TDR positioning on subsidence and facet arthrosis. *The 8th Annual Meeting of the Spine Arthroplasty Society*, Miami, FL, May 5-9, 2008.

Rundell SA, Guerin HL, **Auerbach JD**, Kurtz SM. Nucleus pulposus replacement material stiffness properties affect vertebral body strains and remodeling response. *The 8th Annual Meeting of the Spine Arthroplasty Society*, Miami, FL, May 5-9, 2008.

Rundell SA, **Auerbach JD**, Balderston RA, Kurtz SM. Effects of TDR implantation and positioning on adjacent level facet forces and disc pressures. *The 8th Annual Meeting of the Spine Arthroplasty Society*, Miami, FL, May 5-9, 2008.

Auerbach JD, Milby AH, Weinberg AD, Balderston RA. Cervical disc arthroplasty imparts a more physiologic segmental contribution towards total cervical range of motion compared with fusion. *The 8th Annual Meeting of the Spine Arthroplasty Society*, Miami, FL, May 5-9, 2008.

Auerbach JD, Milby AH, Weinberg AD, Balderston RA. Can preoperative disc height predict success with lumbar total disc replacement? *The 8th Annual Meeting of the Spine Arthroplasty Society*, Miami, FL, May 5-9, 2008.

Lonner BS, **Auerbach JD**, Estreicher MB, Kean KE. Thoracic pedicle screw instrumentation: The learning curve in adolescent idiopathic scoliosis. *Spineweek 2008*, Geneva, Switzerland, May 26-31, 2008.

Lonner BS, **Auerbach JD**, Boachie-Adjei B, Shah SA, Hosgane N, Newton PO. Treatment of thoracic scoliosis: Are monoaxial thoracic pedicle screws the best form of fixation for correction? *SpineWeek 2008*, Geneva, Switzerland, May 26-31, 2008.

Boxberger JI, **Auerbach JD**, Sen S, Dodge G, Elliott DM. Intervertebral Disc Function Is Restored In An In Vivo Model Of Chronic Nucleus Pulposus Glycosaminoglycan Reduction. *2008 ASME Summer Bioengineering Conference*, Marco Island, Florida, June 25-29, 2008.

Zebala LP, Bridwell KH, Baldus C, Richards S, Dormans JP, Lenke LG, **Auerbach JD**. 5-Year Radiographic Results of Long Scoliosis Fusions in Juvenile Spinal Muscular Atrophy Patients: Crankshaft and Ultimate Correction. *43rd Annual Scoliosis Research Society Meeting*, Salt Lake City, Utah, October 10-13, 2008.

Lonner BS, **Auerbach JD**, Estreicher MB, Kean KE. Thoracic pedicle screw instrumentation: The learning curve in adolescent idiopathic scoliosis. *43rd Annual Scoliosis Research Society Meeting*, Salt Lake City, Utah, October 10-13, 2008.

Quirno M, Kamerlink JR, **Auerbach JD**, Errico TJ, Dryer JW, Milby AH, Lonner BS. Charge Analysis of Adolescent Idiopathic Scoliosis Correction Surgery in 122 Consecutive Cases. *43rd Annual Scoliosis Research Society Meeting*, Salt Lake City, Utah, October 10-13, 2008.

Lonner BS, **Auerbach JD**, Estreicher MB, Kean KE. Thoracic pedicle screw instrumentation: The learning curve in adolescent idiopathic scoliosis. *15th International Meeting on Advanced Spine Techniques (IMAST)*, Hong Kong, July 8-11, 2008.

Auerbach JD, Lonner BS, Chamas F, Vorsanger M, Kean KE. Anterior spinal fusion for thoracolumbar scoliosis: Comprehensive assessment of radiographic, clinical, and pulmonary outcomes at 2 years. *15th International Meeting on Advanced Spine Techniques (IMAST)*, Hong Kong, July 8-11, 2008.

Lonner BS, Shah SA, Bastrom T, **Auerbach JD**, Sponseller PD, Newton PO. Multivariate Analysis of Factors Associated with Kyphosis Maintenance in AIS Surgery. *15th International Meeting on Advanced Spine Techniques (IMAST)*, Hong Kong, July 8-11, 2008.

Lonner BS, **Auerbach JD**, Sponseller PD, Newton PO. One Size Does Not Fit All: Variations in Pelvic and Other Sagittal Parameters as a Function of Race in AIS. *15th International Meeting on Advanced Spine Techniques (IMAST)*, Hong Kong, July 8-11, 2008.

Lonner BS, **Auerbach JD**, Kean KE, Vorsanger M. Traditional hybrid versus thoracic pedicle screw instrumentation in adolescent idiopathic scoliosis: A matched pair analysis of clinical, radiographic, and pulmonary outcomes. *15th International Meeting on Advanced Spine Techniques (IMAST)*, Hong Kong, July 8-11, 2008.

Auerbach JD, Wang C, Milby AH, Guerin HL, Heinly JH, Lonner BS, Elliott DM, Borthakur. A novel quantitative measure of facet joint integrity using T1rho MRI. *15th International Meeting on Advanced Spine Techniques (IMAST)*, Hong Kong, July 8-11, 2008.

Auerbach JD, Weidner ZD, Milby AH, Diab M, Lonner BS. Musculoskeletal injuries among spine surgeons: Results of a survey of the SRS membership. *15th International Meeting on Advanced Spine Techniques (IMAST)*, Hong Kong, July 8-11, 2008.

Peng C, Dean LE, **Auerbach JD**, Milby AH, Lonner BS. Video-assisted thoracoscopic surgery for spinal deformity: Morbidity, indications, and results. *15th International Meeting on Advanced Spine Techniques (IMAST)*, Hong Kong, July 8-11, 2008.

Quirno M, Kamerlink JR, **Auerbach JD**, Errico TJ, Dryer JW, Milby AH, Lonner BS. Charge Analysis of Adolescent Idiopathic Scoliosis Correction Surgery in 122 Consecutive Cases. *23rd Annual Meeting of the North American Spine Society*, Toronto, Canada, October 14-18, 2008.

Auerbach JD, Lonner BS, Chamas F, Vorsanger M, Kean KE. Anterior spinal fusion for thoracolumbar scoliosis: Comprehensive assessment of radiographic, clinical, and pulmonary outcomes at 2 years. *23rd Annual Meeting of the North American Spine Society*, Toronto, Canada, October 14-18, 2008.

Auerbach JD, Wang C, Milby AH, Guerin HL, Heinly JH, Lonner BS, Elliott DM, Borthakur. Quantification of facet joint integrity using T1rho MRI. *23rd Annual Meeting of the North American Spine Society*, Toronto, Canada, October 14-18, 2008.

Lonner BS, **Auerbach JD**, Kean KE, Vorsanger M. Traditional hybrid versus thoracic pedicle screw instrumentation in adolescent idiopathic scoliosis: A matched pair analysis of clinical, radiographic, and pulmonary outcomes. *23rd Annual Meeting of the North American Spine Society*, Toronto, Canada, October 14-18, 2008.

Anakwenze OA, Namdari S, **Auerbach JD**, Weidner Z, Baldwin K, Sennett BJ. Athletic performance outcomes following lumbar discectomy in professional basketball players. *23rd Annual Meeting of the North American Spine Society*, Toronto, Canada, October 14-18, 2008.

Auerbach JD, Weidner ZD, Milby AH, Diab M, Lonner BS. Musculoskeletal injuries among spine surgeons: Results of a survey of the SRS membership. *23rd Annual Meeting of the North American Spine Society*, Toronto, Canada, October 14-18, 2008.

Peng C, Dean LE, **Auerbach JD**, Milby AH, Lonner BS. Video-assisted thoracoscopic surgery for spinal deformity: Morbidity, indications, and results. *23rd Annual Meeting of the North American Spine Society*, Toronto, Canada, October 14-18, 2008.

Rundell SA, Guerin HL, **Auerbach JD**, Kurtz SM. The effects of endplate preparation on nucleus replacement subsidence. *Fourth Annual Philadelphia Spine Research Symposium*. Philadelphia, Pennsylvania, November 13, 2008.

Auerbach JD, Lonner BS, Chamas F, Vorsanger M, Kean KE. Comprehensive performance assessment of anterior spinal fusion for thoracolumbar scoliosis. *The 76th Annual Meeting of the American Academy of Orthopaedic Surgeons*, Las Vegas, NV, February 25-28, 2009.

Anakwenze O, **Auerbach JD**, Milby AH, Lonner BS, Balderston RA. Cervical disc arthroplasty versus ACDF: A comparison of sagittal cervical alignment. *The 76th Annual Meeting of the American Academy of Orthopaedic Surgeons*, Las Vegas, NV, February 25-28, 2009.

Anakwenze O, **Auerbach JD**, Milby AH, Lonner BS, Balderston RA. Sagittal Cervical Alignment Following Cervical Disc Arthroplasty and Anterior Cervical Discectomy and Fusion: Results of a Prospective Randomized Controlled Trial. *9th Annual Meeting of the Spine Arthroplasty Society*, London, England, April 28 – May 1, 2009.

Boxberger JI, Sen S, **Auerbach JD**, Dodge GR, Hebela NM, Elliott DM. Intervertebral Disc Regeneration Following Reduced Nucleus Pulposus Glycosaminoglycan Content. *International Society for the Study of the Lumbar Spine*. Miami, FL, May 4 – 8, 2009.

Kamerlink J, Quirno M, **Auerbach JD**, Milby AH, Dean LE, Dryer J, Errico TJ, Lonner BL. Cost analysis of adolescent idiopathic scoliosis correction in 125 consecutive cases. *International Society for the Study of the Lumbar Spine*. Miami, FL, May 4 – 8, 2009.

Auerbach JD, Lonner BS, Errico TJ, Freeman AL, Goerke D, Beaubien BP. Quantification of intradiscal pressures below thoracolumbar spinal fusion constructs: Is there evidence to support “saving a level?” *44th Annual Scoliosis Research Society Meeting*, San Antonio, TX, September 23-26, 2009.

Auerbach JD, Lenke LG, Bridwell KH, Sehn JK, Milby AH, Bumpass D, Crawford CH, O’Shaughnessy BA, Chang MS, Zebala LP, Sides B. Major complications of 3-column osteotomies in 240 consecutive spinal deformity patients. *44th Annual Scoliosis Research Society Meeting*, San Antonio, TX, September 23-26, 2009.

Auerbach JD, Weidner ZD, Milby AH, Diab M, Lonner BS. Musculoskeletal injuries among spine surgeons: Results of a survey of the SRS membership. *44th Annual Scoliosis Research Society Meeting*, San Antonio, TX, September 23-26, 2009.

Auerbach JD, Bridwell KH, Lenke LG, McKeon K, Zebala LP, Milby AH, Crawford CH, O’Shaughnessy BA, Chang MS, Baldus C. Major complications in primary adult deformity surgery: Risk factors and clinical outcomes at one institution with 2-6 year follow-up. *44th Annual Scoliosis Research Society Meeting*, San Antonio, TX, September 23-26, 2009.

Gitelman Y, Lenke LG, **Auerbach JD**, Sides B, Bridwell KH. Pulmonary Function in Adolescent Idiopathic Scoliosis Relative to the Surgical Procedure: A 10-Year Follow-up Analysis. *44th Annual Scoliosis Research Society Meeting*, San Antonio, TX, September 23-26, 2009.

Chang MS, Bridwell KH, Lenke LG, Cho W, Baldus C, **Auerbach JD**, Crawford CH, O’Shaughnessy BA. Predicting the Outcome of Selective Thoracic Fusion in False Double Major Lumbar “C” Cases With 5 to 15 Year Follow up. *44th Annual Scoliosis Research Society Meeting*, San Antonio, TX, September 23-26, 2009.

O’Shaughnessy BA, Kuklo TR, Lenke LG, Chang MS, **Auerbach JD**, Crawford CH, Baldus C, Bridwell KH. Is there a Difference in Outcome between Patients Under and Over Age 60 who have Long Fusions to the Sacrum for the Primary Treatment of Adult Scoliosis? *44th Annual Scoliosis Research Society Meeting*, San Antonio, TX, September 23-26, 2009.

O’Shaughnessy BA, Bridwell KH, Lenke LG, Kuklo TR, Cho W, Baldus C, Chang MS, **Auerbach JD**, Crawford CH. Does a Long Fusion (T3-Sacrum) Portend a Worse Outcome than a Short Fusion (T10-Sacrum) in Primary Adult Scoliosis Surgery? *44th Annual Scoliosis Research Society Meeting*, San Antonio, TX, September 23-26, 2009.

O’Shaughnessy BA, Lenke LG, Bridwell KH, Kuklo TR, Cho W, Chang MS, **Auerbach JD**, Crawford CH, Koester LA. Should Symptomatic Iliac Screws be Electively Removed in Postoperative Adult Spinal Deformity Patients Fused to the Sacrum? *44th Annual Scoliosis Research Society Meeting*, San Antonio, TX, September 23-26, 2009.

Crawford CH, Bridwell KH, Cho W, Buchowski JM, O'Shaughnessy BA, Chang MS, **Auerbach JD**. Extension of Prior Idiopathic Scoliosis Fusions to the Sacrum: a Matched Cohort Analysis of 65 Patients with Minimum 2-year Follow-up. Can BMP Improve Outcomes? *44th Annual Scoliosis Research Society Meeting*, San Antonio, TX, September 23-26, 2009.

Auerbach JD, Lonner BS, Dean LE, Goldstein Y. The feasibility of radiation-free diagnostic monitoring in adolescent idiopathic scoliosis using a novel, upright positional MRI protocol. *44th Annual Scoliosis Research Society Meeting*, San Antonio, TX, September 23-26, 2009.

Auerbach JD, Lonner BS, Crerand CE, Dean LE, Shah SA, Flynn JM, Bastrom T, Bowe WP, Newton PO. Body image in patients with adolescent idiopathic scoliosis: Validation of the Body Image Disturbance Questionnaire-Scoliosis version. *44th Annual Scoliosis Research Society Meeting*, San Antonio, TX, September 23-26, 2009.

Verma K, Vecchione D, Dean L, **Auerbach JD**, Lonner BS. Reduction of Mean Arterial Pressure During Surgical Exposure Safely Reduces Operative Blood Loss and Transfusion Requirements. *44th Annual Scoliosis Research Society Meeting*, San Antonio, TX, September 23-26, 2009.

Cronen GA, Zebala LP, Lenke LG, **Auerbach JD**, Sides B, Bridwell KH, Mulconrey DS, Rose PS. Male versus female adult deformity surgery: Is there a difference in complications and outcomes? *16th International Meeting on Advanced Spine Techniques (IMAST)*, Vienna, Austria, July 15-18, 2009.

Zebala LP, Kuklo TR, Lenke LG, Luhmann SJ, **Auerbach JD**, Bridwell KH. Dual growing rod instrumentation with pedicle screw foundation at a single institution: Assessment of outcomes and complications. *16th International Meeting on Advanced Spine Techniques (IMAST)*, Vienna, Austria, July 15-18, 2009.

Auerbach JD, Lonner BS, Kean KE. Low-density versus high-density thoracic pedicle screw constructs in adolescent idiopathic scoliosis: Is more better? *16th International Meeting on Advanced Spine Techniques (IMAST)*, Vienna, Austria, July 15-18, 2009.

Kamerlink JR, Quirno M, **Auerbach JD**, Milby AH, Dean L, Dryer JW, Errico TJ, Lonner B. Cost Analysis of Adolescent Idiopathic Scoliosis Correction Surgery in 125 Consecutive Cases. *16th International Meeting on Advanced Spine Techniques (IMAST)*, Vienna, Austria, July 15-18, 2009.

Xavier S, Verma K, Landa J, Hoashi JS, **Auerbach JD**, Lonner BS. Height increase following spinal fusion for AIS: Can postoperative height be predicted? *16th International Meeting on Advanced Spine Techniques (IMAST)*, Vienna, Austria, July 15-18, 2009.

Verma K, Dean L, Vecchione D, **Auerbach JD**, Walsh M, Aravind M, Errico TJ, Lonner BS. Estimating operative blood loss in AIS: can blood loss be predicted. *16th International Meeting on Advanced Spine Techniques (IMAST)*, Vienna, Austria, July 15-18, 2009.

Verma K, Dean L, Vecchione D, Valdevit A, Kean K, **Auerbach JD**, Lonner BS. Comprehensive assessment of factors predictive of post-operative infection in 942: can we identify patients at greatest risk? *16th International Meeting on Advanced Spine Techniques (IMAST)*, Vienna, Austria, July 15-18, 2009.

Verma K, Engel I, Dean L, **Auerbach JD**, Goldstein Y, Hoashi JS, Lonner BS. Body Mass Index, Gender, Income, and Household Status Affect SRS-22 Performance In Healthy

Adolescents Without Scoliosis. *16th International Meeting on Advanced Spine Techniques (IMAST)*, Vienna, Austria, July 15-18, 2009.

Verma K, Vecchione D, Dean L, **Auerbach JD**, Lonner BS. Reduction of Mean Arterial Pressure During Surgical Exposure Safely Reduces Operative Blood Loss and Transfusion Requirements. *16th International Meeting on Advanced Spine Techniques (IMAST)*, Vienna, Austria, July 15-18, 2009.

Verma K, Valdevit A, Dean L, Kean KE, Xavier S, Auerbach JD, Lonner BS. Maximal Pulmonary Recovery After Spinal Fusion for Adolescent Idiopathic Scoliosis: Does Surgical Approach Have a Lasting Effect? *16th International Meeting on Advanced Spine Techniques (IMAST)*, Vienna, Austria, July 15-18, 2009.

Auerbach JD, Lonner BS, Errico TJ, Freeman AL, Goerke D, Beaubien BP. Quantification of intradiscal pressures below thoracolumbar spinal fusion constructs: Is there evidence to support “saving a level?” *24th Annual Meeting of the North American Spine Society (NASS)*, San Francisco, CA, November 10-14, 2009.

Crawford CH, Bridwell KH, Cho W, Buchowski JM, O’Shaughnessy BA, Chang MS, **Auerbach JD**. Extension of Prior Idiopathic Scoliosis Fusions to the Sacrum: a Matched Cohort Analysis of 65 Patients with Minimum 2-year Follow-up. Can BMP Improve Outcomes? *24th Annual Meeting of the North American Spine Society (NASS)*, San Francisco, CA, November 10-14, 2009.

Auerbach JD, Lonner BS, Kean KE. Low-density versus high-density thoracic pedicle screw constructs in adolescent idiopathic scoliosis: Is more better? *24th Annual Meeting of the North American Spine Society (NASS)*, San Francisco, CA, November 10-14, 2009.

Auerbach JD, Lonner BS, Crerand CE, Dean LE, Shah SA, Flynn JM, Bastrom T, Bowe WP, Newton PO. Body image in patients with adolescent idiopathic scoliosis: Validation of the Body Image Disturbance Questionnaire-Scoliosis version. *24th Annual Meeting of the North American Spine Society (NASS)*, San Francisco, CA, November 10-14, 2009.

Kamerlink JR, Quirno M, **Auerbach JD**, Milby AH, Dean L, Dryer JW, Errico TJ, Lonner B. Cost Analysis of Adolescent Idiopathic Scoliosis Correction Surgery in 125 Consecutive Cases. *24th Annual Meeting of the North American Spine Society (NASS)*, San Francisco, CA, November 10-14, 2009.

Xavier S, Verma K, Landa J, Hoashi JS, **Auerbach JD**, Lonner BS. Height increase following spinal fusion for AIS: Can postoperative height be predicted? *24th Annual Meeting of the North American Spine Society (NASS)*, San Francisco, CA, November 10-14, 2009.

Verma K, Dean L, Vecchione D, Valdevit A, Kean K, **Auerbach JD**, Lonner BS. Comprehensive assessment of factors predictive of post-operative infection in 942: can we identify patients at greatest risk? *24th Annual Meeting of the North American Spine Society (NASS)*, San Francisco, CA, November 10-14, 2009.

Verma K, Engel I, Dean L, **Auerbach JD**, Goldstein Y, Hoashi JS, Lonner BS. Body Mass Index, Gender, Income, and Household Status Affect SRS-22 Performance In Healthy Adolescents Without Scoliosis. *24th Annual Meeting of the North American Spine Society (NASS)*, San Francisco, CA, November 10-14, 2009.

Verma K, Vecchione D, Dean L, **Auerbach JD**, Lonner BS. Reduction of Mean Arterial Pressure During Surgical Exposure Safely Reduces Operative Blood Loss and Transfusion Requirements. *24th Annual Meeting of the North American Spine Society (NASS)*, San Francisco, CA, November 10-14, 2009.

Verma K, Valdevit A, Dean L, Kean KE, Xavier S, **Auerbach JD**, Lonner BS. Maximal Pulmonary Recovery After Spinal Fusion for Adolescent Idiopathic Scoliosis: Does Surgical Approach Have a Lasting Effect? *24th Annual Meeting of the North American Spine Society (NASS)*, San Francisco, CA, November 10-14, 2009.

Xavier S, Verma K, Landa J, Hoashi JS, **Auerbach JD**, Lonner BS. Height increase following spinal fusion for AIS: Can postoperative height be predicted? *Global Spine Congress*, San Francisco, CA, June 23-26, 2009.

Verma K, Dean L, Vecchione D, **Auerbach JD**, Walsh M, Aravind M, Errico TJ, Lonner BS. Estimating operative blood loss in AIS: can blood loss be predicted. *Global Spine Congress*, San Francisco, CA, June 23-26, 2009.

Verma K, Dean L, Vecchione D, Valdevit A, Kean K, **Auerbach JD**, Lonner BS. Comprehensive assessment of factors predictive of post-operative infection in 942: can we identify patients at greatest risk? *Global Spine Congress*, San Francisco, CA, June 23-26, 2009.

Verma K, Engel I, Dean L, **Auerbach JD**, Goldstein Y, Hoashi JS, Lonner BS. Body Mass Index, Gender, Income, and Household Status Affect SRS-22 Performance In Healthy Adolescents Without Scoliosis. *Global Spine Congress*, San Francisco, CA, June 23-26, 2009.

Verma K, Vecchione D, Dean L, **Auerbach JD**, Lonner BS. Reduction of Mean Arterial Pressure During Surgical Exposure Safely Reduces Operative Blood Loss and Transfusion Requirements. *Global Spine Congress*, San Francisco, CA, June 23-26, 2009.

Auerbach JD, Sehn JK, Cho W, Milby AH, Crawford CH, O'Shaughnessy BA, Chang MS, Riew KD. Crossing the Cervico-Thoracic Junction in Multilevel Posterior Cervical Fusions Reduces the Rate of Symptomatic Adjacent Segment Breakdown. *The 37th Annual Meeting of the Cervical Spine Research Society*, Salt Lake City, UT, December 3-5, 2009.

Riew KD, **Auerbach JD**, Anderson PA. Surgeon vs Patient Perception of Surgical Success in Cervical Arthroplasty or ACDF. *The 37th Annual Meeting of the Cervical Spine Research Society*, Salt Lake City, UT, December 3-5, 2009.

Kamerlink JR, Quirno M, **Auerbach JD**, Milby AH, Dean L, Dryer JW, Errico TJ, Lonner B. Cost Analysis of Adolescent Idiopathic Scoliosis Correction Surgery in 125 Consecutive Cases. *The 77th Annual Meeting of the American Academy of Orthopaedic Surgeons*, New Orleans, LA, March 9-13, 2010.

Auerbach JD, Lonner BS, Kean KE. Low-density versus high-density thoracic pedicle screw constructs in adolescent idiopathic scoliosis: Is more better? *The 77th Annual Meeting of the American Academy of Orthopaedic Surgeons*, New Orleans, LA, March 9-13, 2010.

Crawford CH, Bridwell KH, Cho W, Buchowski JM, O'Shaughnessy BA, Chang MS, **Auerbach JD**. Adolescent Idiopathic Scoliosis (AIS): Do the Favorable 2yr SRS-30 Outcomes Hold-up at 5yrs? *The 77th Annual Meeting of the American Academy of Orthopaedic Surgeons*, New Orleans, LA, March 9-13, 2010.

Auerbach JD, Lonner BS, Crerand CE, Dean LE, Shah SA, Flynn JM, Bastrom T, Bowe WP, Newton PO. Body image in patients with adolescent idiopathic scoliosis: Validation of the Body Image Disturbance Questionnaire-Scoliosis version. *The 77th Annual Meeting of the American Academy of Orthopaedic Surgeons*, New Orleans, LA, March 9-13, 2010.

Auerbach JD, Lonner BS, Errico TJ, Freeman AL, Goerke D, Beaubien BP. Quantification of intradiscal pressures below thoracolumbar spinal fusion constructs: Is there evidence to support “saving a level?” *The 77th Annual Meeting of the American Academy of Orthopaedic Surgeons*, New Orleans, LA, March 9-13, 2010.

Auerbach JD, Weidner Z, Milby AH, Diab M, Lonner BS. Musculoskeletal injuries among spine surgeons: Results of a survey of the SRS. *The 77th Annual Meeting of the American Academy of Orthopaedic Surgeons*, New Orleans, LA, March 9-13, 2010.

Verma K, Dean L, Vecchione D, Valdevit A, Kean K, **Auerbach JD**, Lonner BS. Assessment of Factors Predictive of Post-operative Infection in 941 Spinal Deformity Patients. *The 77th Annual Meeting of the American Academy of Orthopaedic Surgeons*, New Orleans, LA, March 9-13, 2010.

Verma K, Vecchione D, Dean L, **Auerbach JD**, Lonner BS. Estimating Operative Blood Loss in Adolescent Idiopathic Scoliosis: Can Blood Loss Be Predicted? *The 77th Annual Meeting of the American Academy of Orthopaedic Surgeons*, New Orleans, LA, March 9-13, 2010.

Auerbach JD, Sehn JK, Cho W, Milby AH, Crawford CH, O’Shaughnessy BA, Chang MS, Riew KD. Crossing the Cervicothoracic Junction in Multilevel Posterior Cervical Fusions Reduces the Rate of Symptomatic Adjacent Segment Breakdown. *International Meeting on Advanced Spine Techniques (IMAST)*, Toronto, Canada, July 21-24, 2010. **(podium)**

Lonner BS, Shah SA, Bastrom T, Penn P, **Auerbach JD**. Body Image Disturbance Questionnaire-Scoliosis Version: Responsiveness to Change Associated with Surgical Treatment. *International Meeting on Advanced Spine Techniques (IMAST)*, Toronto, Canada, July 21-24, 2010. **(podium)**

Ahn J, Kean KE, Maxey C, **Auerbach JD**, Milby AH, Penn P, Lonner BS. Spinal surgeons are at greater risk for spinal disease than non-spine orthopaedic surgeons Scoliosis Research Society, *International Meeting on Advanced Spine Techniques (IMAST)*, Toronto, Canada, July 21-24, 2010. **(eposter)**

Crawford CH, Chang MS, O’Shaughnessy BA, Milam A, **Auerbach JD**, Riew KD. A Joystick Technique to Aid in Odontoid Resection for Basilar Invagination. *25th Annual Meeting of the North American Spine Society*, Orlando, FL, October 5-9, 2010. **(e-poster)**

Crawford CH, Lee J-SB, **Auerbach JD**, Riew KD. Is there residual motion on flexion-extension radiographs following a solid anterior cervical arthrodesis? *25th Annual Meeting of the North American Spine Society*, Orlando, FL, October 5-9, 2010. **(podium)**

Auerbach JD, Lonner BS, Kean KE, Milby AH, Paonessa KJ, Dormans JP, Newton PO, Song K. Delayed Post-operative Neurologic Deficits in Spinal Surgery. *45th Annual Meeting of the Scoliosis Research Society*, Kyoto, Japan, September 21-24, 2010. **(podium)**

Ahn J, Penn P, Bharucha N, **Auerbach JD**, Shah SA, Lonner BS. Body Image Disturbance Questionnaire-Scoliosis Version: Discriminant Validity in AIS. *45th Annual Meeting of the*

Scoliosis Research Society, Kyoto, Japan, September 21-24, 2010. (**podium**)

Diefenbach C, Lonner BS, **Auerbach JD**, Bharucha N, Dean LE, Goldstein Y. Is radiation-free diagnostic monitoring of adolescent idiopathic scoliosis feasible using upright positional MRI? *45th Annual Meeting of the Scoliosis Research Society*, Kyoto, Japan, September 21-24, 2010. (**podium**)

Chang MS, Lenke LG, Bridwell KH, Cho W, Chang Y-H, Bogunovic L, Koester L, **Auerbach JD**, Crawford CH, O'Shaughnessy BA. Combined Anterior-Posterior vs. Posterior Only Fusion for Severe Non-Spastic Neuromuscular Deformity. *45th Annual Meeting of the Scoliosis Research Society*, Kyoto, Japan, September 21-24, 2010. (**podium**)

Cho W, Lee D-HL, **Auerbach JD**, Sehn JK, Nabb CE, Riew KD. Cervical Spinal Cord Dimensions and Clinical Outcomes in Adults with Klippel-Feil Syndrome: A Comparison with Matched Controls. *The 78th Annual Meeting of the American Academy of Orthopaedic Surgeons*, San Diego, CA, February 15-19, 2010.

Editorials, Reviews, Chapters, including participation in committee reports (print or other media):

Auerbach JD, Mehta S, Chin KR. Antibiotic Prophylaxis and Routine Management Guidelines to Minimize the Occurrence of Postoperative Spinal Infections. *Seminars in Spine Surgery* 2004;16(3):198-205.

Balderston RA, **Auerbach JD**. Introduction: Spinal Instability. *Seminars in Spine Surgery* 2005;17(4):239.

Balderston RA, **Auerbach JD**. The definition of lumbar spinal instability and its clinical significance. *Seminars in Spine Surgery* 2005;17(4):240-2.

Auerbach JD, Balderston RA. Lumbar instability adjacent to a previous fusion. *Seminars in Spine Surgery* 2005;17(4):267-276.

Auerbach JD, Wills BPD, McIntosh TC, Balderston RA. Lumbar disc arthroplasty versus fusion for single-level degenerative disc disease: Two-year results from a randomized prospective study. *Seminars in Spine Surgery* 2005;17(4):310-318.

Auerbach JD, Flynn JM. Pediatric Cervical Spine Trauma. In: Spivak J, Connolly P (eds.): *Orthopaedic Knowledge Update (OKU) Spine, 3rd Edition*. Rosemont, IL, American Academy of Orthopaedic Surgeons, 2006, pp 397-405.

Balderston RA, **Auerbach JD**. Introduction: Imaging Techniques. *Seminars in Spine Surgery* 2007; 19(2):57.

Auerbach JD, Tally WC, Balderston RA. Radiographic evaluation in total disc replacement: Assessment of potential candidacy and range of motion. *Seminars in Spine Surgery* 2007; 19(2):87-97.

Auerbach JD, Guerin HL, Maurer PM, Balderston RA. Endplate Mechanics. In: Davis, Girardi, eds. *Nucleus Arthroplasty in Spinal Care: Volume II: Biomechanics and Development*. Minneapolis, MN, Raymedica, LLC, pp34-40.

Mehta S, **Auerbach JD**, Chin KR. Piriformis Syndrome. In: Slipman CW, Simeone FA, Derby R, eds. *Interventional Spine: an algorithmic approach*. London, Elsevier Science Ltd., 2008, pp1299-1306.

Elliott DM, Yerramalli CS, **Auerbach JD**. Biomechanics of the Intervertebral Disc. In: Slipman CW, Simeone FA, Derby R, eds. *Interventional Spine: an algorithmic approach*. London, Elsevier Science Ltd., 2008, pp827-838.

Reddy SC, Zgonis MH, **Auerbach JD**. Basic Science. In: Chin, ed. *Orthopaedic Key Review Concepts*; Philadelphia, Lippincott, Williams & Wilkins, 2008, pp1-80.

Auerbach JD, D'Andrea K, Dormans JP. Current management strategies for spinal deformity in the growing child. U.S. Musculoskeletal Review 2007, Touch Briefings, London, UK, pp52-54.

Auerbach JD, Flynn JM. Posterior instrumentation for adolescent idiopathic scoliosis. In: *Gowned and Gloved Orthopaedic: Introduction to Common Procedures*. Sheth NP and Lonner JH (eds). Philadelphia, Saunders, Elsevier, 2009, pp384-396.

Auerbach JD, Dormans JP. Spinal Infections in Children. In: Errico, Lonner, and Moulton, eds. *Surgical Management of Spinal Deformities*. New York, Elsevier, (due out 2009).

Auerbach JD, Chin KR. Chapter 71: Autologous fibula and rib harvesting. In: Vaccaro and Albert, eds. *Spine Surgery Tricks of the Trade*, 2nd Edition. New York, Thieme, (due out 2009).

Auerbach JD, Samdani AF, Dormans JP. Electrophysiologic Monitoring. In: O'Brien, ed. *Idiopathic Scoliosis: Principles and Practice*. DePuy Spine Harms Study Group (due out 2010).

Auerbach JD, Kuklo TR. Revision Lumbar Spine Surgery. In: Bridwell KH, DeWald R, eds. *The Textbook of Spinal Surgery*, 3rd Edition. Philadelphia, Lippincott, (due out 2009).

Riew KD, **Auerbach JD**, Angevine PD. Postoperative deformity of the cervical spine. In: Rothman-Simeone, ed. *The Spine*, 6th Edition, Philadelphia, Elsevier (due out 2009)