

Publications and Presentations

This bibliography includes materials
published or presented by TBIRF staff
and/or TBI Spine Surgery Fellowship Program faculty

Publications in Refereed Journals

1. Sachs BL, Vanharanta H, Spivey MA, Guyer RD, Videman T, Rashbaum RF, Johnson RG, Hochschuler SH, Mooney V: Dallas Discogram Description: A New Classification of CT/Discography in Low-Back Disorders. *Spine* 12(3):287-294, 1987.
2. Vanharanta H, Sachs BL, Spivey MA, Guyer RD, Hochschuler SH, Rashbaum RF, Johnson RG, Ohnmeiss DD, Mooney V: The Relationship of Pain Provocation to Lumbar Disc Deterioration as Seen by CT/Discography. *Spine* 12(3):295-298, 1987.
3. Barber FA, Burton WC, Guyer RD: The Heparin-Induced Thrombocytopenia and Thrombosis Syndrome: Report of a Case. *J Bone Joint Surg* 69-A(6):935-937, 1987.
4. Guyer RD, Collier R, Stith WJ, Ohnmeiss DD, Hochschuler SH, Rashbaum RF, Regan JJ: Discitis after Discography. *Spine* 13(12):1352-1354, 1988.
5. Guyer RD, Collier RR, Ohnmeiss DD, Stith WJ, Hochschuler SH, Rashbaum RF, Vanharanta H, Loguidice VA: Extraosseous Spinal Lesions Mimicking Disc Disease. *Spine* 13(3):328-331, 1988.
6. Hochschuler SH, Guyer RD, Stith WJ, Ohnmeiss DD, Rashbaum RF, Johnson, RG: Proplast Reconstruction of Iliac Crest Defects. *Spine* 13(3):378-379, 1988.
7. Loguidice VA, Guyer RD, Stith WJ, Ohnmeiss DD, Hochschuler SH, Rashbaum RF, Johnson RG: Anterior Lumbar Interbody Fusion. *Spine* 13(3):366-369, 1988.
8. Vanharanta H, Guyer RD, Ohnmeiss DD, Stith WJ, Sachs BL, April C, Spivey M, Rashbaum RF, Hochschuler SH, Videman T, Selby DK, Terry A, Mooney V: Disc Deterioration In Low Back Syndromes: A Prospective Multi-center CT/Discography Study. *Spine* 13(12):1349-1351, 1988.
9. Vanharanta H, Sachs BL, Spivey MA, Hochschuler SH, Guyer RD, Rashbaum RF, Ohnmeiss DD, Mooney V: A Comparison of CT/Discography, Pain Response and Radiographic Disc Height. *Spine* 13(3):321-324, 1988.
10. Sachs BL, Spivey MA, Vanharanta H, Guyer RD, Rashbaum RF, Hochschuler SH, Smith GV, Scala A: Techniques for Lumbar Discography and CT/Discography in Clinical Practice. *J Applied Radiology* Nov. 1989.
11. Vanharanta H, Sachs BL, Ohnmeiss DD, Spivey M, Guyer RD, Rashbaum RF, Hochschuler SH, Stith WJ, Mooney V: Pain Provocation and Disc Deterioration by Age: A CT/Discography Study in Low Back Pain Population. *Spine* 14(4):420-423, 1989.
12. Sasso RC, Cotler HB, Guyer RD: Diagnostic Imaging Studies for Low Back Pain. *J Musculoskel Med* 8(5):21-37, 1991.
13. Shea DD, Ohnmeiss DD, Stith WJ, Guyer RD, Rashbaum RF, Hochschuler SH, Regan JJ: The Effect of Sensory Deprivation on the Reduction of Pain in Chronic Low Back Patients. *Spine* 16(5):560-561, 1991.
14. Gertzbein SD, Harris MB: Wedge Osteotomy for the Correction of Post-Traumatic Kyphosis. *Spine* 17(3):374-379, 1992.

15. Guyer RD, Hochschuler SH, Spivey MA, Ohnmeiss DD, Castleman C: Case Report: The use of Dynamic MRI to Identify Cervical Spine Disc Herniation and Cord Compression. *Spine* 17(5):596-597, 1992.
16. Triantafyllou SJ, Gertzbein SD: Flexion-Distracton Injuries of the Thoracolumbar Spine. *Orthopaedics* 15(3):357-364, 1992.
17. Mack MJ, Regan JJ, Bobechko WP, Acuff TE: Application of Thoracoscopy for Diseases of the Spine. *Ann Thorac Surg* 56(3):736-738, 1993.
18. Shelokov AP, Haideri N, Roach J: Residual Gait Abnormalities in Spondylolisthesis. *Spine* 18(15):2201-2205, 1993.
19. Vanharanta H, Floyd T, Ohnmeiss DD, Guyer RD, Hochschuler SH: The Relationship between Facet Tropism and Degenerative Disc Disease. *Spine* 18(8):1000-1005, 1993.
20. Brennan PC, Graham MA, Triano JJ, Hondras MA, Anderson RJ: Lymphocyte Profiles in Patients with Chronic Low Back Pain Enrolled in a Clinical Trial. *J Manip Physiol Ther* 17(4):219-227, 1994.
21. Griffith SL, Shelokov AP, Buttner-Jan K, LeMaire JP, Zeegers WS. A Multicenter Retrospective Study of the Clinical Results of the LINK SB Charite Intervertebral Prosthesis. The Initial European Experience. *Spine* 19(16):1842-9, 1994.
22. Moneta GB, Videman T, Kaivanto K, Aprill C, Spivey M, Vanharanta H, Sachs B, Guyer RD, Hochschuler S, Rashbaum R: Reported Pain During Lumbar Discography as a Function of Annular Disruption and Disc Degeneration. *Spine* 19:1968-1974, 1994.
23. Ohnmeiss DD, Guyer RD, Hochschuler SH: Laser Disc Decompression: The Importance of Proper Patient Selection. *Spine* 19(18):2054-2059, 1994.
24. Triano JJ, Schultz AB. Motions of the Head and Thorax during Neck Manipulations. *J Manipulative Physiol Ther* 17(9):573-583, 1994.
25. Bogdanffy GM, Ohnmeiss DD, Guyer RD: Early Changes in Bone Mineral Density above a Combined Anterior-Posterior L4-S1 Lumbar Spinal Fusion: A Clinical Investigation. *Spine* 20(15):1674-1678, 1995.
26. Cohen E, Triano JJ, McGregor M, Papakyriakou M. Biomechanical Performance of Spinal Manipulation Therapy by Newly Trained vs. Practicing Providers: Does Experience Transfer to Unfamiliar Procedures? *J Manipulative Physiol Ther* 18(6):347-352, 1995.
27. Griffith SL, Weinoffer SL, Shelokov AP, Guyer RD, Contiliano J, Geiger J: Biomechanical Comparison of Anterior Instrumentation for the Cervical Spine. *J Spinal Disord* 8(6):429-438, 1995.
28. Guyer RD, Ohnmeiss DD: Contemporary Concepts in Spine Care: Lumbar Discography. Position Statement from the North American Spine Society Diagnostic and Therapeutic Committee. *Spine* 20(18):2048-2059, 1995.
29. Herzog RJ, Guyer RD, Graham-Smith A, Simmons ED Jr: Magnetic Resonance Imaging. Use in Patients with Low Back or Radicular Pain. Position Statement from the North American Spine Society. *Spine* 20(16):1834-1838, 1995.

30. Mack MJ, Regan JJ, McAfee PC, Picetti G, Ben-Yishay A, Acuff TE: Video-assisted Thoracic Surgery for the Anterior Approach to the Thoracic Spine. *Ann Thorac Surg* 59(5):1100-1106, 1995.
31. McAfee PC, Regan JR, Fedder IL, Mack MJ, Geis WP: Anterior Thoracic Corpectomy for Spinal Cord Decompression Performed Endoscopically. *Surg Laparosc Endosc* 5(5):339-348, 1995.
32. McAfee PC, Regan JR, Zdeblick T, Zuckerman J, Picetti GD 3rd, Heim S, Geis WP, Fedder IL: The Incidence of Complications in Endoscopic Anterior Thoracolumbar Spinal Reconstructive Surgery. A Prospective Multicenter Study Comprising the First 100 Consecutive Cases. *Spine* 20(14):1624-1632, 1995.
33. Ohnmeiss DD, Vanharanta H, Guyer RD: The Association between Pain Drawings and CT/Discographic Pain Responses. *Spine* 20(6):729-733, 1995.
34. Phillips R, Triano JJ: Historical Perspective. Joseph Janse. *Spine* 20(21):2349-2353, 1995.
35. Regan JJ, Mack MJ, Picetti GD 3rd: A Technical Report on Video-Assisted Thoracoscopy in Thoracic Spinal Surgery. Preliminary Description. *Spine* 20(7):831-837, 1995.
36. Simmons ED Jr, Guyer RD, Graham-Smith A, Herzog R: Radiographic Assessment for Patients with Low Back Pain. Position Statement from the North American Spine Society. *Spine* 20(16):1839-1841, 1995.
37. Triano JJ, McGregor M, Hondras MA, Brennan PC: Manipulative Therapy versus Education Programs in Chronic Low Back Pain. *Spine* 20(8):948-955, 1995.
38. Triano JJ: The Validity of Thoracolumbar Paraspinal Scanning EMG as a Diagnostic Test: Examination of the Current Literature. *J Manipulative Physiol Ther* 18(7):482-484, 1995.
39. Weinhoffer SL, Guyer RD, Herbert M, Griffith SL: In-Vitro Intradiscal Pressure Measurements above a Simulated Instrumented Fusion. *Spine* 20(5):526-531, 1995.
40. Block AR, Vanharanta H, Ohnmeiss DD, Guyer RD: Discographic Pain Reports: Influence of Psychological Factors. *Spine* 21(3):334-338, 1996.
41. Gronblad M, Virri J, Ronkko S, Kiviranta I, Vanharanta H, Seitsalo S, Rashbaum R, Guyer R: 1996 Volvo Award A Controlled Biochemical and Immunohistochemical Study of Human Synovial Type (Group 11) Phospholipase A2 and Inflammatory Cells in Macroscopically Normal, Degenerated and Herniated Human Lumbar Disc Tissue. *Spine* 21(22):2531-2538, 1996.
42. Flaherty RA, Rashbaum RF, Triano JJ, Hansen DT, Mootz RD, Coile RC Jr, Haldeman S: Health Care Credentialing and Qualifications Commission: An Alternative to "Any Willing Provider"? *Amer J Managed Care* II(5):559-566, 1996.
43. Mack M, Regan J, Landreneau R: Thoracoscopic Surgery of the Spine. *Semin Laparosc Surg* 3(4):253-258, 1996.
44. Ohnmeiss DD, Rashbaum RF, Bogdanffy GM: Prospective Outcome Evaluation of Spinal Cord Stimulation in Patients with Intractable Leg Pain. *Spine* 21(11):1344-1350, 1996.

45. Regan JJ, McAfee PC, Guyer RD, Aronoff RJ: Laparoscopic Fusion of the Lumbar Spine in a Multicenter Series of the First 34 Consecutive Patients. *Surg Laparosc Endosc* 6(6):459-468, 1996.
46. Regan JJ: Percutaneous Endoscopic Thoracic Discectomy. *Neurosurg Clin N Am* 7(1):87-98, 1996.
47. Combs SB, Triano JJ: Symptoms of Neck Artery Compromise: Case Presentations of Risk Estimate for Treatment. *J Manipulative Physiol Ther* 20(4):274-278, 1997.
48. Guyer RD, Ohnmeiss DD, Mason SL, Shelokov AP: Complications of Cervical Discography: Findings in a Large Series. *J Spinal Disord* 10(2):95-101, 1997.
49. Jarolem K, Tucker WA, Fulp T, Guyer RD: Rigid Intrasegmental Fixation for Repair of a Symptomatic Pars Defect in a Young Athlete: A Case Report and Description of Technique. *J Spin Disord* 10(3):253-255, 1997.
50. Ohnmeiss DD, Vanharanta H, Ekholm J: Degree of Disc Disruption and Lower Extremity Pain. *Spine* 22(14):1600-1605, 1997.
51. Regan JJ, Guyer RD: Endoscopic Techniques in Spinal Surgery. *Clin Orthop* (335):122-139, 1997.
52. Triano J, Schultz AB: Loads Transmitted During Lumbosacral Spinal Manipulative Therapy. *Spine* 22(17):1955-1964, 1997.
53. Triano JJ, McGregor M, Skogsbergh DR: Use of Chiropractic Manipulation in Lumbar Rehabilitation. *J Rehabil Res Dev* 34(4):394-404, 1997.
54. Gudavalli MR, Triano JJ: Effects of Combined Motions on the Posterior Ligaments of the Lumbar Spine. *J Neuromusculoskel System* 5(4):150-156, 1997.
55. McAfee PC, Regan JJ, Geis WP, Fedder IL: Minimally Invasive Anterior Retroperitoneal Approach to the Lumbar Spine. Emphasis on the Lateral BAK. *Spine* 23(13):1476-1484, 1998.
56. Regan JJ, Ben-Yishay A, Mack MJ: Video-assisted Thoracoscopic Excision of Herniated Thoracic Disc: Description of Technique and Preliminary Experience in the First 29 Cases. *J Spinal Disord* 11(3):183-191, 1998.
57. Triano JJ: Conservative Treatment of Acute and Chronic Nonspecific Low Back Pain. *Spine* 23(11):1288-1291, 1998.
58. Vanharanta H, Ohnmeiss DD, Aprill C: Vibratory Pain Provocation Can Improve the Specificity of MRI in the Diagnosis of Symptomatic Lumbar Disc Rupture. *Clin J Pain* 14(3):239-247, 1998.
59. Barros TE, Bohlman HH, Capen DA, Cotler J, Dons K, Biering-Sorensen F, Marchesi DG, Zigler JE: Traumatic Spondylolisthesis of the Axis: Analysis of Management. *Spinal Cord* 37(3):166-171, 1999.
60. Dickman CA, Rosenthal D, Regan JJ: Reoperation for Herniated Thoracic Discs. *J Neurosurg* 91(2 Suppl):157-162, 1999.

61. Goodwin CB, Brighton CT, Guyer RD, Johnson JR, Light KI, Yuan HA: A Double-Blind Study of Capacitively Coupled Electrical Stimulation as an Adjunct to Lumbar Spinal Fusion. *Spine* 24(13):1349-1357, 1999.
62. Gudavalli MR, Triano JJ: An Analytical Model of Lumbar Motion Segment in Flexion. *J Manipulative Physiol Ther* 22(4):201-208, 1999.
63. Triano JJ, Hansen DT: Chiropractic and Quality Care, Are They Exclusive? *QME Quarterly J* 3(1):5-15, 1999.
64. Ohnmeiss DD, Vanharanta H, Ekholm J: Relationship of Pain Drawings to Invasive Tests Assessing Intervertebral Disc Pathology. *Eur Spine J* 8(2):126-131, 1999.
65. Ohnmeiss DD, Vanharanta H, Ekholm J: The Relationship between Pain Location and Disc Pathology: A Study of Pain Drawings and CT/Discography. *Clin J Pain* 15(3):210-217, 1999.
66. Regan JJ, Aronoff RJ, Ohnmeiss DD, Sengupta DK: Laparoscopic Approach to L4-5 for Interbody Fusion Using BAK Cages: Experience in the First 58 Cases. *Spine* 24(20):2171-2174, 1999.
67. Regan JJ, Yuan H, McAfee PC: Laparoscopic Fusion of the Lumbar Spine: Minimally Invasive Spine Surgery: A Prospective Multicenter Cohort Study Evaluating Perioperative Complications in Open And Laparoscopic Lumbar Fusion Using Threaded Fusion Cages. *Spine* 24(4):402-411, 1999.
68. Floyd T, Ohnmeiss DD: A Meta-Analysis of Autograft versus Allograft in Anterior Cervical Fusion. *Eur Spine J* 9(5):398-403, 2000.
69. Ohnmeiss DD, Guyer RD, Mason SL: Relationship of Cervical Discographic Pain Responses to Radiographic Images. *Clin J Pain* 16(1):1-5, 2000.
70. Ohnmeiss DD, Vanharanta H, Estlander AM, Jämsén A: The Relationship of Disability (Oswestry) and Pain Drawings to Functional Testing. *Eur Spine J* 8(2):127-131, 2000.
71. Ohnmeiss DD: Repeatability of Pain Drawings in a Low Back Pain Population. *Spine* 25(8):980-988, 2000.
72. Barros TE, Zigler J, Aito S, Di Lorenzo N, Wing P: Gunshot Wound to the Spine. *Spinal Cord* 39(10):541-544, 2001.
73. Triano JJ: Biomechanics of Spinal Manipulative Therapy. *Spine J* 1(2):121-30, 2001.
74. Block AR, Ohnmeiss DD, Guyer RD, Rashbaum RF, Hochschuler SH: The Use of Presurgical Psychological Screening to Predict the Outcome of Spine Surgery. *Spine J* 1(4):274-282, 2001.
75. Ohnmeiss DD, Rashbaum RF: Patient Satisfaction with Spinal Cord Stimulation in the Treatment of Predominant Complaints of Chronic, Intractable Low Back Pain. *Spine J* 1(5):358-363; 2001.
76. Triano JJ, Engle NS: Concentrating on Comfort. *Occup Health Saf* 70(9):137-139, 2001.

77. Zigler JE, Anderson PA, Bridwell K, Vaccaro A: What's New in Spine Surgery. *J Bone Joint Surg* 83-A(8):1285-1292, 2001.
78. Epker J, Block AR: Presurgical Psychosocial Screening in Back Pain Patients: A Review. *Clin J Pain* 17(3):200-2005, 2001.
79. Hochschuler SH, Ohnmeiss DD, Guyer RD, Blumenthal SL: Artificial Disc: Preliminary Results of a Prospective Study in the United States. *European Spine J* 11(Suppl 2):S106-110, 2002.
80. Sengupta DK, Mehdiian SMH, Mulholland RC, Webb JK, Ohnmeiss DD: Biomechanical Evaluation of Immediate Stability with Rectangular vs. Cylindrical Interbody Cages in Stabilization of the Lumbar Spine. *BMC Musculoskeletal J* 3(1):23, 2002.
81. Triano JJ, Rogers CM, Combs S, Potts D, Sorrels K: Developing Skilled Performance of Lumbar Spine Manipulation. *J Manipulative Physiol Ther* 25(6):353-361, 2002.
82. Zigler JE, Boden S, Anderson PA, Bridwell K, Vaccaro A: What's New in Spine Surgery. *J Bone Joint Surg* 84-A(7):1282-1288, 2002.
83. Blumenthal SL, Ohnmeiss DD, Guyer R, Hochschuler S, McAfee P, Garcia R, Salib R, Yuan H, Lee C, Bertagnoli R, Bryan V: Artificial Discs and Beyond: A North American Spine Society Annual Meeting Symposium. *Spine J* 2(6):460-463, 2003.
84. Blumenthal SL, Ohnmeiss DD: Contemporary Concepts Reviews: Intervertebral Cages for Degenerative Spinal Disease. *Spine J* 3(4):301-309, 2003.
85. Gronblad M, Habtemariam A, Virri J, Seitsalo S, Vanharanta H, Guyer RD: Complement Membrane Attack Complexes in Pathologic Disc Tissues. *Spine* 28(2):114-118, 2003.
86. Guyer RD, Ohnmeiss DD: Intervertebral Disc Prostheses. *Spine* 28(15S):S15-S23, 2003.
87. Chang Y, Guyer RD, Ohnmeiss DD, Moore S: Case Report: Intra-operative Left Common Iliac Occlusion in a Scheduled 360 Degree Spinal Fusion. *Spine* 28(16):E316-E319, 2003.
88. Simmons ED, Guyer RD, Graham-Smith A, Herzog R: Contemporary Concepts Reviews: Radiographic Assessment for Patients with Low Back Pain. *Spine J* 3(3S):3S-5S, 2003.
89. Herzog RJ, Ghanayem AJ, Guyer RD, Graham-Smith A, Simmons ED: Contemporary Concepts Reviews: Magnetic Resonance Imaging: Use in Patients with Low Back Pain or Radicular Pain. *Spine J* 3(3S):6S-10S, 2003.
90. Guyer RD, Ohnmeiss DD: Contemporary Concepts Reviews: Lumbar Discography. *Spine J* 3(3S):11S-17S, 2003.
91. Triano JJ, Rogers CM, Combs S, Potts D, Sorrels K: Quantitative Feedback versus Standard Training for Cervical and Thoracic Manipulation. *J Manipulative Physiol Ther* 26(3):131-138, 2003.
92. Zigler JE, Burd TA, Vialle EN, Sachs BL, Rashbaum RF, Ohnmeiss DD: Lumbar Spine Arthroplasty: Early Results Using the ProDisc II- A Prospective Randomized Trial of Arthroplasty Versus Fusion. *J Spinal Disord Tech* 16(4):352-361, 2003.

93. Zigler JE, Boden S, Anderson PA, Bridwell K, Vaccaro A: What's New in Spine Surgery. *J Bone Joint Surg* 85-A(8):1626-1636, 2003.
94. Blumenthal SL, Ohnmeiss DD, Guyer RD, Hochschuler SH: Prospective Study Evaluating Total Disc Replacement: Preliminary Results. *J Spinal Disord Tech* 16(5):450-454, 2003.
95. Zigler JE: Clinical Results with ProDisc: European Experience and U.S. Investigation Device Exemption Study. *Spine* 28(20):S163-S166, 2003.
96. Rogers CM, Triano JJ: Biomechanical Measure Validation for Spinal Manipulation in Clinical Settings. *J Manipulative Physiol Ther* 26(9):539-548, 2003.
97. Geisler FH, Blumenthal SL, Guyer RD, McAfee PC, Regan JJ, Johnson JP, Mullin B: Neurological Complications of Lumbar Artificial Disc Replacement and Comparison of Clinical Results with those Related to Lumbar Arthrodesis in the Literature: Results of a Multicenter, Prospective, Randomized Investigational Device Exemption Study of Charite Intervertebral Disc. *J Neurosurg Spine* 1(2):143-154, 2004.
98. Guyer RD, McAfee PC, Hochschuler SH, Blumenthal SL, Fedder IL, Ohnmeiss DD, Cunningham BW: Prospective Randomized Study of the Charité Artificial Disc: Data from Two Investigational Centers. *Spine J* 4(6 Suppl):252S-259S, 2004.
99. Triano JJ, Bougie J, Rogers C, Scaringe J, Sorrels K, Skogsbergh D, Mior S: Procedural Skills in Spinal Manipulation: Do Prerequisites Matter? *Spine J* 4(5):557-563, 2004.
100. Zigler JE: Lumbar Spine Arthroplasty Using the ProDisc II. *Spine J* 4(6 Suppl):260S-267S, 2004.
101. Bridwell KH, Anderson PA, Boden SD, Vaccaro AR, Zigler JE: What's New in Spine Surgery. *J Bone Joint Surg Am* 86-A(7):1587-1596, 2004.
102. Boden SD, Balderston RA, Heller JG, Hanley EN Jr, Zigler JE: An AOA Critical Issue. Disc Replacements: This Time Will We Really Cure Low-Back and Neck Pain? *J Bone Joint Surg Am* 86-A(2):411-422, 2004.
103. Taylor SH, Arnold ND, Biggs L, Colloca CJ, Mierau DR, Symons BP, Triano JJ: A Review of the Literature Pertaining to the Efficacy, Safety, Educational Requirements, Uses and Usage of Mechanical Adjusting Devices: Part 1 of 2. *J Can Chiropr Assoc* 48(1):74-88, 2004.
104. Taylor SH, Arnold ND, Biggs L, Colloca CJ, Mierau DR, Symons BP, Triano JJ: A Review of the Literature Pertaining to the Efficacy, Safety, Educational Requirements, Uses and Usage of Mechanical Adjusting Devices: Part 2 of 2. *J Can Chiropr Assoc* 48(2):158-161, 2004.
105. Haneline MT, Triano JJ: Cervical Artery Dissection: A Comparison of Highly Dynamic Mechanisms – Manipulation vs. MVC. *J Manipulative Physiol Ther* 28(1):57-63, 2005.
106. Triano JJ. Evidence-based Care, Certainty, and the Doctor's Duty of Care. *J Manipulative Physiol Ther* 28(4):215-216, 2005.
107. Blumenthal SL, McAfee PC, Guyer RD, Hochschuler SH, Geisler FH, Holt RT, Garcia R Jr, Regan JJ, Ohnmeiss DD: A Prospective, Randomized, Multi-Center FDA IDE Study of

- Lumbar Total Disc Replacement with the CHARITÉ™ Artificial Disc vs. Lumbar Fusion: Part I – Evaluation of Clinical Outcomes. *Spine* 30(14):1565-1575, 2005.
108. McAfee PC, Cunningham B, Holtsapple G, Bussard-Adams K, Blumenthal SL, Guyer RD, Dmietriev A, Maxwell J, Regan JJ, Isaza J: A Prospective, Randomized, Multi-Center FDA IDE Study of the Charité™ Artificial Disc: A Radiographic Outcomes Analysis, Correlation of Surgical Technique Accuracy with Clinical Outcomes, and Evaluation of the Learning Curve. *Spine* 30(14):1576-1583, 2005.
 109. Nelson CF, Lawrence D, Triano JJ, Bronfort G, Perle SM, Metz D, Hegetschweiler K, Labrot T: Chiropractic as Spine Care: A Model for the Profession. *Chiropr Osteopat* 13:9, 2005.
 110. Bertagnoli R, Zigler J, Karg A, Voigt S: Complications and Strategies for Revision Surgery in Total Disc Replacement. *Orthop Clin North Am* 36(3):389-395, 2005.
 111. Bertagnoli R, Tropiano P, Zigler J, Karg A, Voigt S: Hybrid Constructs. *Orthop Clin North Am* 36(3):379-388, 2005.
 112. Dickerman RD, Zigler JE: A traumatic Vertebral Artery Dissection after Cervical Corpectomy: A Traction Injury? *Spine* 30(21):E658-E661, 2005.
 113. Ferrara L, Triano JJ, Sohn MJ, Song E, Lee DD: A Biomechanical Assessment of Disc Pressures in the Lumbosacral Spine in Response to External Unloading Forces. *Spine J* 5(5):548-53, 2005.
 114. Tolonen J, Gronblad M, Vanharanta H, Virri J, Guyer RD, Rytomaa T, Karaharju EO: Growth Factor Expression in Degenerated Intervertebral Disc Tissue an Immunohistochemical Analysis of Transforming Growth Factor Beta, Fibroblast Growth Factor and Platelet-Derived Growth Factor. *Eur Spine J* 15(5):588-96, 2006.
 115. Small S, Guyer RD, Ohnmeiss DD: Faces of Spine Care: From the Procedure Room: When Spinal Injection Becomes Advanced Imaging. *Spine J* 6(1):96-97, 2006.
 116. McAfee PC, Geisler FH, Saiedy SS, Moore SV, Regan JJ, Guyer RD, Blumenthal SL, Fedder IL, Tortolani PJ, Cunningham B: Revisibility of the CHARITÉ Artificial Disc Replacement: Analysis of 688 Patients Enrolled in the U.S. IDE Study of the CHARITÉ Artificial Disc. *Spine* 31(11):1217-1226, 2006.
 117. Regan JJ, McAfee PC, Blumenthal SL, Guyer RD, Geisler FH, Garcia R, Maxwell, JH: Evaluation of Surgical Volume and the Early Experience with Lumbar Total Disc Replacement as Part of the Investigational Device Exemption Study of the Charité Artificial Disc. *Spine* 31(19):2270-2276, 2006.
 118. Guyer RD, Patterson M, Ohnmeiss DD: Failed Back Surgery Syndrome: Diagnostic Evaluation. *J Am Acad Orthop Surg* 14(9):534-43, 2006.
 119. Triano JJ, Scaringe J, Bougie J, Rogers C: Effects of Visual Feedback on Manipulation Performance and Patient Ratings. *J Manipulative Physiol Therap* 29(5):378-385, 2006.
 120. Blumenthal SL, Guyer RD, Geisler FH, McAfee PC, Regan JJ: The First 18 Months Following FDA Approval of Lumbar Total Disc Replacement in the United States: Reported Adverse Events outside an IDE Study Environment. *SAS J* 1(1):8-11, 2007.

121. Holt R, Majd M, Isaza J, Blumenthal S, McAfee P, Guyer R, Hochschuler S, Geisler F, Garcia R, Regan J: Complications of Lumbar Artificial Disc Replacement vs. Fusion: Results from the Randomized, Multicenter FDA IDE Study of the CHARITÉ Artificial Disc. *SAS J* 1(1):20-27, 2007.
122. Zigler J, Delamarter R, Spivak JM, Linovitz RJ, Danielson GO 3rd, Haider TT, Cammisa F, Zucherman J, Balderston R, Kitchel S, Foley K, Watkins R, Bradford D, Yue J, Yuan H, Herkowitz H, Geiger D, Bendo J, Peppers T, Sachs B, Girardi F, Kropf M: Results of the Prospective, Randomized, Multicenter Food And Drug Administration Investigational Device Exemption Study of the ProDisc-L Total Disc Replacement Versus Circumferential Fusion for the Treatment of 1-Level Degenerative Disc Disease. *Spine* 32(11):1155-1162, 2007.
123. Guyer RD, Tromanhauser SG, Regan JJ: An Economic Model of One-Level Lumbar Arthroplasty vs. Fusion. *Spine J* 7(5):558-562, 2007.
124. Zigler JE, Sachs BL, Rashbaum RF, Ohnmeiss DD: Two to Three Year Follow-up of ProDisc-L: Results from a Prospective Randomized Trial of Arthroplasty Versus Fusion. *SAS J* 1(2):63-67, 2007.
125. Sachs BL, Delacy D, Green, J, Graham S, Ramsay, J, Kreisler, N, Kruse, P, Khutoryansky N, Hu SS: Recombinant Activated Factor VII in Spinal Surgery: A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Dose-escalation Trial. *Spine* 32(21):2285-2293, 2007.
126. Oakley JC, Krames ES, Prager JP, Stamatos J, Foster AM, Weiner R, Rashbaum RF, Henderson J: New Spinal Cord Stimulation System Effectively Relieves Chronic, Intractable Pain: A Multicenter Prospective Clinical Study. *Neuromodulation* 10(3):262–278, 2007.
127. Guyer RD: North American Spine Society Presidential Address: The Paradox in Medicine Today - Exciting Technology and Economic Challenges. *Spine J* 8(2):279-285, 2008.
128. Cunningham BW, McAfee PC, Geisler FH, Holsapple G, Adams K, Blumenthal SL, Guyer RD, Cappuccino A, Regan JJ, Fedder IL, Tortolani PJ: Distribution of In Vivo and In Vitro Range of Motion Following 1-level Arthroplasty with the CHARITE Artificial Disc Compared with Fusion. *J Neurosurg Spine* 8(2):7-12, 2008.
129. Geisler FH, Guyer RD, Blumenthal SL, McAfee PC, Cappuccino A, Bitan F, Regan JJ: Patient Selection for Lumbar Arthroplasty and Arthrodesis: The Effect of Revision Surgery in a Controlled, Multicenter, Randomized Study. *J Neurosurg Spine* 8(2):13-16, 2008.
130. Geisler FH, Guyer RD, Blumenthal SL, McAfee PC, Cappuccino A, Bitan F, Regan JJ: Effect of Previous Surgery on Clinical Outcome Following 1-level Lumbar Arthroplasty. *J Neurosurg Spine* 8(2):108-114, 2008.
131. Guyer RD, Geisler FH, Blumenthal SL, McAfee PC, Mullin BB: Effect of Age on Clinical and Radiographic Outcomes and Adverse Events Following 1-level Lumbar Arthroplasty after a Minimum 2-year Follow-up. *J Neurosurg Spine* 8(2):101-107, 2008.

132. Leahy M, Zigler JE, Ohnmeiss DD, Rashbaum RF, Sachs BL: Comparison of Results of Total Disc Replacement in Post-Discectomy Patients versus Patients with No Previous Lumbar Surgery. *Spine* 33(15):1690-1693, 2008.
133. Zigler JE, Ohnmeiss DD: Comparison of Two-level vs. One-level Total Disc Replacement: Data from a Prospective FDA-regulated Trial. *SAS J* 2(3):140-144, 2008.
134. Guyer RD, Siddiqui S, Zigler JE, Ohnmeiss DD, Blumenthal SL, Sachs BL, Hochschuler SH, Rashbaum RF: Lumbar Spinal Arthroplasty: Analysis of One Center's 20 Best and 20 Worst Clinical Outcomes. *Spine* 33(23):2566-2569, 2008.
135. Rohan MX Jr, Ohnmeiss DD, Guyer RD, Zigler JE, Blumenthal SL, Hochschuler SH, Sachs BL, Rashbaum RF: Relationship between the Length of Time Off Work Pre-operatively and Clinical Outcome at 24-month Follow-up in Patients Undergoing Total Disc Replacement or Fusion. *Spine J* 9(5):360-365, 2009.
136. Guyer RD, McAfee PC, Banco RJ, Bitan FD, Cappuccino A, Geisler FH, Hochschuler SH, Holt RT, Jenis LG, Majd M, Regan JJ, Tromanhauser SG, Wong DC, Blumenthal SL: Prospective, Randomized, Multicenter Food and Drug Administration Investigational Device Exemption Study of Lumbar Total Disc Replacement with the CHARITE Artificial Disc Versus Lumbar Fusion: Five-Year Follow-up. *Spine J* 9(5):374-386, 2009.
137. Bosita RV, Hong T, Ohnmeiss DD: Avascular Necrosis of Lumbar Facet Joints Associated with Bilateral Facet Fractures. *Spine J* 9(6):e1-4, 2009.
138. Murrey D, Janssen M, Delamarter R, Goldstein J, Zigler J, Tay B, Darden B: Results of the Prospective, Randomized, Controlled Multicenter Food and Drug Administration Investigational Device Exemption Study of the Prodisc-C Total Disc Replacement Versus Anterior Discectomy and Fusion for the Treatment of 1-Level Symptomatic Cervical Disc Disease. *Spine J* 9(4):275-286, 2009.
139. Geisler FH, McAfee PC, Banco RJ, Blumenthal SL, Guyer RD, Holt RT, Majd ME: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Effect at 5-year Follow-up of Prior Surgery and Prior Discectomy on Clinical Outcomes Following Lumbar Arthroplasty. *SAS J* 3(1):17-24, 2009.
140. Ohnmeiss DD: Overview of the Role of Statistic Analysis in the Design of Spine-related Studies. *SAS J* 3:25-28, 2009.
141. Ohnmeiss DD, Guyer RD: 24-Month Follow-up for Reporting Results of Spinal Implant Studies: Is This Guideline Supported by the Literature? *SAS J* 3:100-107, 2009.
142. Smith HE, Rihn JA, Brodke D, Guyer R, Coric D, Lonner B, Shelokov AP, Currier BL, Riley L, Phillips FM, Albert TJ: Spine Care: Evaluation of the Efficacy and Cost of Emerging Technology. *Am J Med Qual* 24(6 Suppl):S25-31, 2009.
143. Ohnmeiss DD, Bodemer W, Zigler JE: Effect of Adverse Events on Low Back Surgery Outcome: 24-month Follow-up Results from an FDA IDE Trial. *Spine* 35(7):835-838, 2010.

144. Doorly TP, Lambing CL, Malanga GA, Maurer PM, Rashbaum RF: Algorithmic Approach to the Management of the Patient with Lumbar Spinal Stenosis. *J Fam Pract* 59(8 Suppl Algorithmic):S1-8, 2010.
145. Lieberman I, Chiasson D, Podichetty VK: Aortic Disruption Associated with L2-L3 Fracture-Dislocation in Case of Child Abuse: A Case Report. *J Bone Joint Surg Am* 92(7):1670-4, 2010.
146. Marchetti J, Verma-Kurvari S, Patel N, Ohnmeiss DD: Are Electrodiagnostic Study Findings Related to Patient's Response to Epidural Steroid Injection? *PM R* 2(11):1016-20, 2010.
147. von Jako R, Finn MA, Yonemura KS, Araghi A, Khoo LT, Carrino JA, Perez-Cruet M: Minimally Invasive Percutaneous Transpedicular Screw Fixation: Increased Accuracy and Reduced Radiation Exposure by Means of a Novel Electromagnetic Navigation System. *Acta Neurochir (Wein)* 153(3):589-596, 2011.
148. Delamarter RB, Murrey D, Janssen ME, Goldstein JA, Zigler J, Tay BK-B, Darden II B: Results at 24 Months from the Prospective, Randomized, Multicenter Investigational Device Exemption Trial of Prodisc-C Versus Anterior Cervical Discectomy and Fusion With 4-Year Follow-Up and Continued Access Patients. *SAS J* 4:122-128, 2010.
149. Guyer RD, Shellock J, MacLennan B, Hanscom D, Knight RQ, McCombe P, Jacobs JJ, Urban RM, Bradford D, Ohnmeiss DD: Early Failure of Metal-on-Metal Artificial Disc Prostheses Associated with Lymphocytic Reaction: Diagnosis and Treatment Experience in 4 Cases. *Spine* 36(7):E492-97, 2011.
150. Delamarter R, Zigler JE, Balderston RA, Cammisa FP, Goldstein JA, Spivak JM: Prospective, Randomized, Multicenter Food and Drug Administration Investigational Device Exemption Study of the ProDisc-L Total Disc Replacement Compared with Circumferential Arthrodesis for the Treatment of Two-Level Lumbar Degenerative Disc Disease: Results at Twenty-Four Months. *J Bone Joint Surg Am* 93(8):705-715, 2011.
151. Tobler WD, Gerszten PC, Bradley WD, Raley TJ, Nasca RJ, Block JE: Minimally-invasive Axial Pre-sacral L5-S1 Interbody Fusion: Two Year Clinical and Radiographic Outcomes. *Spine* 36(20):E1296-E1301, 2011.
152. Glenn JS, Yaker J, Guyer RD, Ohnmeiss DD: Anterior Discectomy and Total Disc Replacement for Three Patients with Multiple Third and Fourth Recurrent Lumbar Disc Herniations. *Spine J* 11(9):e1-e6, 2011.
153. Siemionow KB, Hu X, Lieberman IH: The Fernstrom Ball Revisited. *Europ Spine J* 21(3):443-448, 2011.
154. Yamashita T, Steinmetz MP, Lieberman IH, Modic MT, Mroz TE: The Utility of Repeated Postoperative Radiographs After Lumbar Instrumented Fusion for Degenerative Lumbar Spine. *Spine* 36(23):1955-1960, 2011.
155. Coric D, Nunley PD, Guyer RD, Musante D, Carmody C, Gordon C, Laurysen C, Ohnmeiss DD, Boltes MO: Prospective, Randomized, Multicenter Study of Cervical Arthroplasty: 269 Patients from the Kineflex®|C Artificial Disc IDE Study with Minimum Two Year Follow-up. *J Neurosurg Spine* 15(4):348-358, 2011.

156. Rhyne AL, Blumenthal SL, Frank EH, Hsu KY, Kim KD, Youssef JA, Wang JC, Arnold P, Bendebba M, Block KM, Juarez TG, Chiacchierini RP, Ehmsen RJ, Krelle JS, Dizerega GS: Oxiplex Reduces Leg Pain, Back Pain and Associated Symptoms Following Lumbar Discectomy. *Spine* 37(8):631-641, 2012.
157. Raj PP, Hill CS Jr, Racz G, Heavner J, Grabois M, Neill L, Willis W Jr, Schade CM, Rashbaum R, Calodney A, Burton AW, Somerville J: The Story of the Texas Pain Society: Formation and Function of a Regional Pain Society. *Pain Pract* 12(1):57-65, 2012.
158. Lieberman IH, Hardenbrook MA, Wang JC, Guyer RD: Assessment of Pedicle Screw Placement Accuracy, Procedure Time, and Radiation Exposure Using a Miniature Robotic Guidance System. *J Spinal Disord Tech* 25(5):241-248, 2012.
159. Laurysen C, Coric D, Dimmig T, Musante D, Ohnmeiss DD, Stubbs HA: Cervical Total Disc Replacement Using a Novel Compressible Prosthesis: Results from a Prospective FDA-regulated Feasibility Study with 24-month Follow-up. *Internat J Spine Surg* 6:71-77, 2012.
160. Bradley WD, Hisey MS, Verma-Kurvari S, Ohnmeiss DD: Clinical Outcome of a Minimally Invasive Trans-Sacral Approach to L5-S1 Interbody Fusion. *Internat J Spine Surg* 6:110-114, 2012.
161. Rainey S, Blumenthal SL, Zigler JE, Guyer RD, Ohnmeiss DD: Analysis of Adjacent Segment Re-Operation Following Lumbar Total Disc Replacement. *Internat J Spine Surg* 6:140-144, 2012.
162. Jones TJ, Hisey MS: L5 Radiculopathy Caused by L5 Nerve Root Entrapment by an L5-S1 Anterior Osteophyte. *Internat J Spine Surg* 6:174-177, 2012.
163. Zigler JE, Delamarter RB: Five Year Results of The Prospective, Randomized, Multicenter Food and Drug Administration Investigational Device Exemption Study of the ProDisc-L Total Disc Replacement Versus Circumferential Arthrodesis for the Treatment of 1-Level Degenerative Disc Disease. *J Neurosurg: Spine* 17(6):493-501, 2012.
164. Zigler JE, Glenn J, Delamarter RB: Five Year Adjacent Level Degenerative Changes Comparing Lumbar Total Disc Replacement with ProDisc-L to Circumferential Fusion in Patients with Surgically Treated Single-level Disease. *J Neurosurg: Spine* 17(6):504-511, 2012.
165. St. Clair S, Tan JS, Lieberman I: Oblique Lumbar Interbody Fixation: A Biomechanical Study in Human Spines. Accepted for publication in *J Spinal Disord Tech* 25(4):183-189, 2012.
166. Zigler JE, Delamarter R, Murrey D, Spivak J, Janssen M: ProDisc-C and Anterior Cervical Discectomy and Fusion as Surgical Treatment for Single-Level Cervical Symptomatic Degenerative Disc Disease: Five-Year Results of a Food and Drug Administration Study. *Spine* 38(3):203-209, 2013.
167. Lieberman IH, Hu X, Ohnmeiss DD: Robotic-assisted Pedicle Screw Placement: Lessons Learned from the First 102 Patients. *Europ Spine J* 22(3):661-666, 2013.

168. Bailey A, Araghi A, Blumenthal S, Huffmon GV: Prospective, Multi-Center, Randomized, Controlled Study of Anular Repair in Lumbar Discectomy: Two-Year Follow-Up. *Spine* 38(14):1161-1169, 2013.
169. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE: Re-operations in Cervical Total Disc Replacement Compared with Anterior Cervical Fusion: Results Compiled from Multiple Prospective FDA IDE Trials Conducted at a Single Site. *Spine* 38(14):1177–1182, 2013.
170. Block AR, Ben-Porath YS, Marek RJ: Psychological Risk Factors for Poor Outcomes of Spine Surgery and Spinal Cord Stimulator Implant: A Review of the Literature and Their Assessment with the MMPI-2-RF. *Clin Neuropsychol* 27(1):81-107, 2013.
171. Davis RJ, Kim K, Hisey MS, Bae HW, Hoffman G, Gaede S, Rashbaum RF, Nunley PD, Peterson D, Stokes J: Cervical Total Disc Replacement with Mobi-C Cervical Artificial Disc Versus Anterior Discectomy and Fusion for The Treatment of Two-level Symptomatic Degenerative Disc Disease: A Prospective, Randomized, Controlled Multicenter Clinical Trial. *J Neurosurg Spine* 19(5):532-545, 2013.
172. Delamarter RB, Zigler J: Five-year Re-Operation Rates, Cervical Total Disc Replacement versus Fusion, Results of a Prospective Randomized Clinical Trial. *Spine* 38(9):711–717, 2013.
173. Hu X, Ohnmeiss DD, Lieberman IH: Use of an Ultrasonic Osteotome Device in Spine Surgery: Experience from the First 128 Patients. *Eur Spine J* 22(12):2845-2849, 2013.
174. Zigler JE, Delamarter RB: Does 360° Lumbar Spinal Fusion Improve Long-Term Clinical Outcomes After Failure of Conservative Treatment in Patients With Functionally Disabling Single Level Degenerative Lumbar Disc Disease? Results of 5 Year Follow-Up in 75 Postoperative Patients. *Internat J Spine Surg* 7: e1–e7, 2013.
175. Hu X, Lieberman IH. Proximal Instrumented Vertebral Body Chance Fracture after Pedicle Screw Instrumentation in a Thoracic Kyphosis Patient with Osteoporosis. Accepted for publication in *J Spinal Disord Tech*.
176. Hu X, Lieberman IH: What Is the Learning Curve for Robotic-assisted Pedicle Screw Placement in Spine Surgery? Accepted for publication in *Clin Orthop Relat Res*.
177. Block AR, Marek RJ, Ben-Porath YS, Ohnmeiss DD: Associations between MMPI-2-RF Scores, Workers' Compensation Status, and Spine Surgery Outcome. Accepted for publication in *J Applied Biobehav Reseach*.
178. Guyer RD, Pettine K, Roh JS, Dimmig TA, Coric D., McAfee, PC, Ohnmeiss DD: Comparison of Two Lumbar Total Disc Replacements: Results of a Prospective, Randomized, Controlled Multicenter Food and Drug Administration Trial with 24-month Follow-up. Accepted for publication in *Spine*.

Invited Articles and Other publications

1. Hochschuler SH: The Patient of Low Back Pain. *Hospital Med* Nov:54-68, 1989.

2. Shea DD, Ohnmeiss DD, Stith WJ: Interrupting the Pain Cycle in Chronic Low Back Pain Patients. (Invited Article) *Back Pain Monitor*, May, S1-S3, 1989.
3. Guyer RD: Selective Discography, CT/Discography, and Pain Provocation Testing. *Seminars in Orthopaedics*. 6(2):90-91, 1991.
4. Sachs BL, Spivey MA, Vanharanta H, Guyer RD, Rashbaum RF, Hochschuler SH, Scala AD: Techniques for lumbar discography and computed tomography-discography in clinical practice. *Orthop Rev* 19(9):775-778, 1990.
5. Guyer RD, Ohnmeiss DD: Lumbar Discography and CT/Discography. *University of Pennsylvania Orthopaedic J* 7:61-63, 1991.
6. Guyer RD: Selective Discography, CT/Discography, and Pain Provocation Testing. *Seminars Orthop* 6(2):90-91, 1991.
7. Hochschuler SH: Posterior-Lateral Arthroscopic Microdiscectomy. *Seminars Orthop* 6(2):113-114, 1991.
8. Stith WJ, Judy MM, Hochschuler SH, Guyer RD: Choice of Lasers for Minimally Invasive Spinal Surgery. *Orthop Rev* 22(2):137-142, 1991.
9. Beard VV, Hochschuler SH: Reflex Sympathetic Dystrophy Following Spinal Surgery. *Semin Spinal Surg* 5(2):153-156, 1993.
10. Kain C, Geisler B, Hochschuler SH: Anterior Lumbar Interbody Fusion: Approach, Complications, and Their Prevention. *Operative Tech Orthop* 3:225-231, 1993.
11. Pinkerton S, Weinstein JN: (Spine Update) Peer Review: A Process or a Formality? *Spine* 19(3):380-383, 1994.
12. Triano JJ, Raley B: Chiropractic in the Interdisciplinary Team Practice. *Topics in Clin Chiro* 1(4):58-66, 1994.
13. Guyer RD, Hochschuler SH: Minimally Invasive Surgical Techniques for the Treatment of the Herniated Lumbar Disc. *Seminars Spine Surg* 6(4):256-261, 1994.
14. Guyer RD, Ohnmeiss DD: The Role of Discography and Interdiscal Therapy. *Current Opinion in Orthopaedics* 5(II):49-53, 1994.
15. Triano JJ: [Letter] The Validity of Thoracolumbar Paraspinal Scanning EMG as a Diagnostic Test: Examination of the Current Literature. *J Manipulative Physiol Ther* 18(7):482-484, 1995.
16. Guyer RD, Ohnmeiss DD: [Letter] Response to Fraser's Comments on Lumbar Discography Position Statement. *Spine* 21(10):1275-1276, 1996.
17. Kambin P, McCullen G, Parke W, Regan JJ, Schaffer JL, Yuan H: Minimally Invasive Arthroscopic Spinal Surgery. *Instr Course Lect* 46:143-161, 1997.
18. Regan JJ, Yuan H, McCullen G: Minimally Invasive Approaches to the Spine. *Instr Course Lect* 46:127-141, 1997.
19. Triano JJ: Point of View: Posteroanterior Stiffness in the Lumbosacral Spine: The Correlation Between Adjacent Vertebral Levels. *Spine* 22(23):2729-2730, 1997.

20. Triano JJ: [Letter] Conservative treatment of Acute and Chronic Nonspecific Low Back Pain. *Spine* 23(11):1288-1291, 1998.
21. Mootz RD, Hansen DT, Souza TA, Triano JJ, Wiese BC: Application of Incremental Change Strategies in Chiropractic and Multidisciplinary Clinical Settings for Quality Improvement. *Qual Manag Health Care* 8(3):42-64, 2000.
22. Ohnmeiss DD, Guyer RD: Provocative Discography for Diagnostic Purposes in Patients with Discogenic Pain - Its Therapeutic Implications. *Current Anesthesiology Reports* 2(3):175-180, 2000.
23. Ohnmeiss DD: Pain Drawings in the Evaluation of Lumbar Disc-Related Pain. [Dissertation] Karolinska Institute; Stockholm, Sweden. April, 2000.
24. Ray CD, Blumenthal S, Klara P, Magana I, Gill K, Schonmayer R, Kim YS: [Letter] Interbody Cages. *J Neurosurg* 93(2 Suppl):338-340, 2000.
25. Zigler JE, Strausser DW: The Aging Spine. Orthopaedic Knowledge Update: Spine 2, American Academy of Orthopaedic Surgeons; Rosemont, Illinois, 2002; pp. 123-133.
26. Triano JJ: Point of View: A Randomized Controlled Trial of Exercise and Manipulative Therapy for Cervicogenic Headache. *Spine* 27(17):1843, 2002.
27. Taylor SH, Arnold ND, Biggs L, Colloca CJ, Mierau DR, Symons BP, Triano JJ: A Review of the Literature Pertaining to the Efficacy, Safety, Educational Requirements, Uses and Usage of Mechanical Adjusting Devices. Chiropractors' Association of Saskatchewan, 2002.
28. Triano JJ: Reducing Back Pain While Sitting. *Spine-health.com*. February 8, 2002.
29. Guyer RD, Burton DC: Differential Diagnosis of Spinal Disorders. In Fardon et al (eds): Orthopaedic Knowledge Update: Spine. American Academy of Orthopaedic Surgeons; Rosemont, Illinois, 2002 pp. 87-96.
30. McAfee PC, Guyer RD: History and Design Rationale for the CHARITE Artificial Disc. *Lumbar Spine Arthroplasty: Volume I*. Quality Medical Publishing. St. Louis, MO, 2005; pp. 13-28.
31. Blumenthal SL, Guyer RD: Indications, Contraindications, and Radiographic Evaluation. *Lumbar Spine Arthroplasty: Volume II*. Quality Medical Publishing. St. Louis, MO, 2005; pp. 3-16.
32. Blumenthal SL, Guyer RD: IDE Clinical Studies: Results of a Prospective, Randomized, Multicenter, FDA-Controlled Clinical Trial. *Lumbar Spine Arthroplasty: Volume II*. Quality Medical Publishing. St. Louis, MO, 2005; pp. 17-38.
33. Blumenthal SL, Guyer RD, Cappuccino A: Discectomy. *Lumbar Spine Arthroplasty: Volume III*. Quality Medical Publishing. St. Louis, MO, 2005; pp. 17-39.
34. Burd T, Bosita R: Position: Nonoperative Management. *J Orthop Trauma*. 19(9):674-676, 2005.
35. Triano JJ: Response to Letter to the Editor by Harrison. *J Manipulative Physiol Ther* 28(9):733-4, 2005.

36. Triano JJ: Measurement of Lumbar Spine Loads and Motions during Rotational Mobilization. *J Manipulative Physiol Ther* 28(9):731-2, 2005.
37. Triano JJ: Invited Commentary. *Spine J* 2(6): 39-40, 2002.
38. Zigler JE, Bennett MT: Disc Prosthesis for Lumbar Degenerative Disease and Axial Instability – ProDisc. *Seminars Spine Surgery* 17(4): 285-296, 2005.
39. Guyer RD, Elders G: Disc Prosthesis for Lumbar Degenerative Disease and Axial Instability – CHARITE Artificial Disc. *Seminars in Spine Surgery* 17(4):297-309, 2005.
40. Blumenthal SL: [Letter] Response to Kurtz et al. Analysis of a Retrieved Polyethylene Total Disc Replacement Component. *Spine J* 6(1):98-99, 2006.
41. Zigler JE, Ohnmeiss DD: Patient Selection for Lumbar Arthroplasty. *Seminars Spine Surg* 18:40-46, 2006.
42. Dickerman RD, Guyer RD: [Letter] Intraoperative Electromyography for Lateral Mass and Pedicle Screws: Technique is the Key! *J Spinal Disord Tech* 19(6):463, 2006.
43. Dickerman RD, Guyer RD, Hisey MS: [Letter] Re: Automated Intraoperative EMG Testing during Percutaneous Pedicle Screw Placement. *Spine J* 6(4):473, 2006.
44. Bronfort G, Haas M, Moher D, Bouter L, van Tulder M, Triano J, Assendelft WJJ, Evans R, Dagenais S, Rosner A: Review. Conclusions by Ernst and Canter Regarding Spinal Manipulation Refuted. *Chiro Osteo* 14:14, 2006.
45. Cunningham BW, DeMuth GE, McAfee PC, Scott-Young M, Yoon KJ, Blumenthal SL, Guyer RD, Geisler FH, Regan, JJ, Conix B, Hes R, Pimenta L, Diaz R, Fedder IL, Stadlan NY, Tortolani PJ: Survivorship Analysis of the CHARITE Artificial Disc: Review of 1,938 Patients from Eight Leading International Spine Centers. *Roundtables in Spinal Surgery: Long Term Results of Lumbar Arthroplasty* 1(4):31-37, 2006.
46. Zigler JE: [Editorial] Arthroplasty as the Next Evolution of Surgical Reconstruction of the Spine. *Business Briefing: US Orthopedics Review* 30-35, 2006.
47. Dickerman RD, Reynolds A, Bennett M, Rashbaum R, Hochschuler S: [Letter] Posterior Lumbar Interbody Fusion. *J Neurosurg Spine* 6(1):194-195, 2007.
48. Dickerman RD, Zigler JE: [Letter] Re: Carragee EJ, Lincoln T, Parmar VS, Alamin T: A Gold Standard Evaluation of the 'Discogenic Pain' Diagnosis as Determined by Provocative Discography. *Spine* 32(2):287-288, 2007.
49. Dickerman RD, Reynolds AS, Stevens Q, Zigler J: [Letter] Cervical Pedicle Screws vs. Lateral Mass Screws: Uniplanar Fatigue Analysis and Residual Pullout Strengths. *Spine J* 7(3):384, 2007.
50. Zigler J, Walsh J, Zigler J: Medical Device Reporting: Issues with Class III Medical Devices. *Food Drug Law J* 62(3):573-580, 2007.
51. Dickerman RD, Reynolds AS, Rashbaum R, Hochschuler S: [Letter] Adjacent Segment Degeneration: Time is not as Important as Facet Preservation! *Acta Orthop* 79(3):452, 2008.

52. Guyer RD: North American Spine Society Presidential Address: The Paradox in Medicine Today - Exciting Technology and Economic Challenges. [Translated into Chinese]. Chinese J Spine Spinal Cord 18(12):887-890, 2008.
53. Guyer RD, Shellock J: Total Disc Replacement at the Texas Back Institute: Our Journey Over the Past 18 Years. Coluna/Columna 7(4):390-396, 2008.
54. Dickerman RD, Reynolds A, Zigler J, Guyer R: [Letter] Adjacent Segment Degeneration. J Neurosurg Spine 10(2):177, 2009.
55. Duffy MF, Shellock J, Blumenthal SL: Spinal Sports Injuries. US Musculoskeletal Review 37-42, 2009.
56. Guyer RD, Ohnmeiss DD: Advancements in Spinal Surgery. US Musculoskeletal Review 47-50, 2009.
57. Guyer RD: [Letter] Re: "Prospective, Randomized Multicenter Food and Drug Administration Investigational Device Exemption Study of Lumbar Tool Disc Replacement with the CHARITE Artificial Disc Versus Lumbar Fusion: Five-Year Follow-Up". Spine J 10(4):360, 2010.
58. Coric D, Nunley PD, Guyer RD, Musante D, Laurysen C: Response to Letter to the Editor by Hadley MN. J Neurosurg: Spine 15:345-347, 2011.
59. McGrory J, Guyer RD: Can Fusion for Back Pain Alone Be Defended? Seminars Spine Surg 23:227-234, 2011.
60. Tepper G, Ohnmeiss DD, Guyer RD: Retrograde Ejaculation—Make It Count. SpineLine XII(6):37-38, 2011.
61. Guyer RD, Thongtrangan I, Ohnmeiss DD: Anterior Lumbar Arthroplasty. Seminars Spine Surg 24:32-36, 2012.
62. Zigler JE: Results of the Five Year Data ProDisc-L Multi-Center PRCT Comparing ProDisc-L to Circumferential Spinal Fusion for Single Level Disabling DDD. Seminars Spine Surg 24:25-31, 2012.
63. Rashbaum RF, Ohnmeiss DD: Psychology of the Spine Surgeon and Other Spine Interventionalists. SpineLine November/December:50-52, 2013.

Books Edited and Authored

1. Guyer RD (Editor): SPINE - State of the Art Review: Lumbar Disc Disease. Hanley & Belfus, Philadelphia, Pennsylvania; January, 1989.
2. Hochschuler SH (Editor): SPINE - State of the Art Review: Spinal Injuries in Sports. Hanley & Belfus, Philadelphia, Pennsylvania; May, 1990.
3. Hochschuler SH (Editor): The Spine in Sports. Hanley & Belfus, Philadelphia, Pennsylvania; 1990.
4. Hochschuler SH (Author and Editor): Back in Shape. Houghton-Mifflin. 1990.

5. Regan JJ (Editor): SPINE - State of the Art Review: Cervical Disc Disease. Hanley & Belfus, Philadelphia, Pennsylvania; 1991.
6. Gertzbein SD (Editor): Fractures of the Thoracic and Lumbar Spine. Williams & Wilkins; Baltimore, Maryland; 1992.
7. Hochschuler, RD Guyer, HB Cotler (Editors): Rehabilitation of the Spine: Science and Practice. Mosby Year Book, Chicago, Illinois; 1993.
8. Regan JJ, McAfee PC, Mack MJ (Editors): Atlas of Endoscopic Spine Surgery. Quality Medical Publishing, St. Louis, Missouri; 1995.
9. Block AR (author): Presurgical Psychosocial Screening in Chronic Pain Syndromes. Lawrence Erlbaum Associates, Publishers, Mahwah, New Jersey; 1996.
10. Hochschuler SH, Reznik R: How to Treat Your Back Without Surgery. Hunter House; Alameda, California; 1998.
11. Levine A, Eismont F, Garfin S, Zigler J (Editors): Spine Trauma. Elsevier; London, England; 1998.
12. Hochschuler SH, Reznik R: Treat Your Back Without Surgery. Hunter House; Alameda, California; 2002.
13. Büttner-Janzen K, Hochschuler SH, McAfee PC (Editors): The Artificial Disc. Springer-Verlag, Berlin, Germany; 2003.
14. Block AR, Gatchel RJ, Deardorff WW, Guyer RD (Authors): The Psychology of Spine Surgery. Block AR (ed) American Psychological Association, Washington, D.C., 2003.
15. Guyer RD, Zigler JE (Editors): Spinal Arthroplasty: A New Era in Spine Care. Quality Medical Publishing, St. Louis, Missouri; 2005.
16. Whitaker MC, Hochschuler SH: Pocket Spine. Quality Medical Publishing, St. Louis, Missouri; 2006.
17. Yue JJ, Guyer RD, Johnson JP, Khoo LT, Hochschuler SH (eds): The Comprehensive Treatment of the Aging Spine: Minimally Invasive and Advanced Techniques. Elsevier, Philadelphia, Pennsylvania; 2010.
18. Zigler JE, Eismont FJ, Garfin SR, Vaccarro AR (eds): Spine Trauma, 2nd Edition. American Academy of Orthopaedic Surgeons, Rosemont, Illinois; 2011.
19. Block AR, Sarwar DB (eds): Presurgical Psychological Screening: Understanding Patients, Improving Outcomes. American Psychological Association. Washington, D.C., 2012.
20. Phillips FM, Lieberman IH, Polly DW Jr. (eds): Minimally Invasive Spine Surgery: Surgical Techniques and Disease Management. Springer; to be published in 2014.
21. Whitaker MC, Hochschuler SH: Pocket Spine. 2nd Edition. Quality Medical Publishing, St. Louis, Missouri; to be published in 2014.

Book and Monograph Chapters

1. Flemming J, Guyer RD: *Diagnostic Dilemmas*. In: Guyer RD (ed) SPINE - State of the Art Review: Lumbar Disc Disease. Hanley & Belfus; Philadelphia, Pennsylvania; January, 1989; pp 153-172.
2. Guyer RD, Flemming J: *Laminectomy-Indications, Techniques and Complications*. In: Guyer RD (ed) SPINE - State of the Art Review: Lumbar Disc Disease. Hanley & Belfus; Philadelphia, Pennsylvania; January, 1989; pp 91-102.
3. Lonstein MB, Hochschuler SH: *Differential Diagnosis of Lumbar Disc Disease*. In: Guyer RD (ed) SPINE - State of the Art Review: Lumbar Disc Disease. Hanley & Belfus; Philadelphia, Pennsylvania; January, 1989; pp 57-68.
4. Ohnmeiss DD, Stith WJ, Gilbert PJ, Rashbaum RF: *Treatment of Acute Low Back Pain*. In: Guyer RD (ed) SPINE - State of the Art Review: Lumbar Disc Disease. Hanley & Belfus; Philadelphia, Pennsylvania; January, 1989; pp. 69-81.
5. Shelokov AP, Rashbaum RF: *Injection Therapy for Conservative Management of Low Back Pain*. In: Guyer RD (ed) SPINE - State of the Art Review: Lumbar Disc Disease. Hanley & Belfus; Philadelphia, Pennsylvania; January, 1989; pp 83-90.
6. Stith WJ, Ohnmeiss DD, Carranza CB, Hanks D: *Rehabilitation of Patients with Chronic Back Pain*. In: Guyer RD (ed) SPINE - State of the Art Review: Lumbar Disc Disease. Hanley & Belfus; Philadelphia, Pennsylvania; January, 1989; pp 125-138.
7. Hochschuler SH: *Percutaneous Discectomy*. In: Hochschuler SH (ed): SPINE - State of the Art Review: Spinal Injuries in Sports. Hanley & Belfus, Philadelphia, Pennsylvania; May, 1990; pp 467-474.
8. Ohnmeiss DD: *Modalities* (subchapter of Non-surgical Treatment of Sports-Related Spine Injuries). In: Hochschuler SH (ed): SPINE - State of the Art Review: Spinal Injuries in Sports. Hanley & Belfus, Philadelphia, Pennsylvania; May, 1990; pp 442-445.
9. Glisan B, Hochschuler SH: *Fitness in the Treatment and Prevention of Athletic Low Back Injuries*. In: Hochschuler SH (ed): SPINE - State of the Art Review: Spinal Injuries in Sports. Hanley & Belfus, Philadelphia, May, 1990; pp 287-298.
10. Rashbaum RF: *Soft Tissue Trauma in Equestrian Participation*. In: Hochschuler SH (ed): SPINE - State of the Art Review: Spinal Injuries in Sports. Hanley & Belfus, Philadelphia, Pennsylvania; May, 1990; pp 414-425.
11. Sheets C, Hochschuler SH: *Considerations in Cycling for Persons with Low Back Pain*. In: Hochschuler SH (ed): SPINE - State of the Art Review: Spinal Injuries in Sports. Hanley & Belfus, Philadelphia, Pennsylvania; May, 1990; pp 359-365.
12. Hochschuler SH: *Percutaneous Discectomy*. In: Hochschuler SH (ed): The Spine in Sports. Hanley & Belfus, Philadelphia, Pennsylvania; 1990; pp 267-274.
13. Ohnmeiss DD: *Modalities* (subchapter of Non-surgical Treatment of Sports-Related Spine Injuries). In: Hochschuler SH (ed): The Spine in Sports. Hanley & Belfus, Philadelphia, Pennsylvania; 1990; pp 242-245.
14. Rashbaum RF: *Soft Tissue Trauma in Equestrian Participation*. In: Hochschuler SH (ed): The Spine in Sports. Hanley & Belfus, Philadelphia, Pennsylvania; 1990; pp 180-191.

15. Rodriguez J, Hochschuler SH: *Case Report: 17 Year Old Gymnast*. In: Hochschuler SH (ed): The Spine in Sports. Hanley & Belfus, Philadelphia, Pennsylvania; 1990; pp 330-336.
16. Glisan B, Hochschuler SH: *Fitness in the Treatment and Prevention of Athletic Low Back Injuries*. In: Hochschuler SH (ed): The Spine in Sports. Hanley & Belfus, Philadelphia, Pennsylvania; 1990; pp 31-42.
17. Sheets C, Hochschuler SH: *Considerations in Cycling for Persons with Low Back Pain*. In: Hochschuler SH (ed): The Spine in Sports. Hanley & Belfus, Philadelphia, Pennsylvania; 1990; pp 125-131.
18. Guyer RD: *Lumbar CT/Discography*. In: P Kambin (ed) Percutaneous Approach to the Lumbar Spine. Urban & Schwarzenberg Medical Publishers, Inc., Baltimore, Maryland; 1990.
19. Guyer RD: *Lumbar CT/discography*. In: P Kambin (ed) Arthroscopic Microdiscectomy: Minimal Intervention in Spine Surgery. Urban & Schwarzenberg Medical Publishers, Inc., Baltimore, Maryland; 1991; pp 49-56.
20. Matwijecky C, Guyer RD: *Cervical Discectomy and Fusion*. In: Regan JJ (ed) SPINE- State of the Art Review: Cervical Spine Disease. Hanley & Belfus, Inc., Philadelphia, Pennsylvania; 1991; pp 259-271.
21. Sasso RC, Cotler HB, Thalgott JS: *Transpedicular Fixation with AO Dynamic Compression Plates*. In: An HS, Cotler JM (eds) Spinal Instrumentation. Williams & Wilkins, Baltimore, Maryland; 1991; pp 257-280.
22. Vazquez-Seoane P, Gertzbein SD, Yuan H: *The AO Internal Fixator*. In HS An, JM Cotler (eds) Spinal Instrumentation. Williams & Wilkins, Baltimore, Maryland; 1991; pp 297-302.
23. Rashbaum RF: *Multi-Disciplinary Spinal Rehabilitation - Management by Objectives*. In: Hochschuler SH, Guyer RD, Cotler HB (eds) Rehabilitation of the Spine: Science and Practice. Mosby Year Book, Chicago, Illinois; 1993; pp 3-10.
24. Hochschuler SH: *General Consideration: Stability, Flexibility, Strength, Cardiac Fitness, and Aerobic Capacity*. In: Hochschuler SH, Guyer RD, Cotler HB (eds) Rehabilitation of the Spine: Science and Practice. Mosby Year Book, Chicago, Illinois; 1993; pp 11-18.
25. Ohnmeiss DD: *The Role of Education in the Treatment of Back Pain Patients*. In: Hochschuler SH, Guyer RD, Cotler HB (eds) Rehabilitation of the Spine: Science and Practice. Mosby Year Book, Chicago, Illinois; 1993; pp 19-24.
26. Gilbert P: *Lumbar Range of Motion*. In: Hochschuler SH, Guyer RD, Cotler HB (eds) Rehabilitation of the Spine: Science and Practice. Mosby Year Book, Chicago, Illinois; 1993; pp 45-52.
27. Guyer RD: *Laboratory Testing*. In: Hochschuler SH, Guyer RD, Cotler HB (eds) Rehabilitation of the Spine: Science and Practice. Mosby Year Book, Chicago, Illinois; 1993; pp 113-118.

28. Mayfield ML: *Nutrition and Obesity*. In: Hochschuler SH, Guyer RD, Cotler HB (eds) Rehabilitation of the Spine: Science and Practice. Mosby Year Book, Chicago, Illinois; 1993; pp 677-684.
29. Bogdanffy GM: *Exercise Physiology and Fitness*. In: Hochschuler SH, Guyer RD, Cotler HB (eds) Rehabilitation of the Spine: Science and Practice. Mosby Year Book, Chicago, Illinois; 1993; pp 667-676.
30. Regan JJ: *Benign Tumors of the Spine*. In: Hochschuler SH, Guyer RD, Cotler HB (eds) Rehabilitation of the Spine: Science and Practice. Mosby Year Book, Chicago, Illinois; 1993; pp 393-400.
31. Hochschuler SH, Guyer RD: *Arthroscopic Microdiscectomy*. In: Hochschuler SH, Guyer RD, Cotler HB (eds) Rehabilitation of the Spine: Science and Practice. Mosby Year Book, Chicago, Illinois; 1993; pp 601-608.
32. Hochschuler SH: *Development of a Spine Rehabilitation Institute: General Considerations*. In: Hochschuler SH, Guyer RD, Cotler HB (eds) Rehabilitation of the Spine: Science and Practice. Mosby Year Book, Chicago, Illinois; 1993; pp 721-724.
33. Regan JJ: *Indications and Contraindications*. In: Regan JJ, McAfee PC, Mack MJ (eds) Atlas of Endoscopic Spine Surgery. Quality Medical Publishing. St. Louis, Missouri; 1995; pp 63-68.
34. Regan JJ: *Equipment and Instrumentation for Endoscopic Spine Surgery*. In: Regan JJ, McAfee PC, Mack MJ (eds) Atlas of Endoscopic Spine Surgery. Quality Medical Publishing. St. Louis, Missouri; 1995; pp 69-82.
35. McBride AD: *Thoracoscopic Anatomy of the Spine..* In: Regan JJ, McAfee PC, Mack MJ (eds) Atlas of Endoscopic Spine Surgery. Quality Medical Publishing. St. Louis, Missouri; 1995; pp 91-100.
36. Triano JJ, Skogsbergh D, McGregor M: *Validity and basis of manipulation*. In: White A (ed) Spinal Medicine and Surgery: A Multidisciplinary Approach. Mosby Year Book, 1995; pp 437-450.
37. Hansen D, Triano JJ: *Applications of quality assurance in chiropractic practice*. In: Lawrence D (ed): Advances in Chiropractic Vol. 2, Mosby Year Book, 1995.
38. Regan JJ: *Endoscopic Approach Strategies*. In: Regan JJ, McAfee PC, Mack MJ (eds) Atlas of Endoscopic Spine Surgery. Quality Medical Publishing, St. Louis, Missouri; 1995; pp 117-136.
39. McNulty PS, McAfee PC, Regan JJ: *Biopsy of Discs, Vertebrae, and Paraspinal Masses*. In: Regan JJ, McAfee PC, Mack MJ (eds) Atlas of Endoscopic Spine Surgery. Quality Medical Publishing, St. Louis, Missouri; 1995; pp 151-164.
40. Regan JJ: *Thoracic Discectomy and Fusion*. In: Regan JJ, McAfee PC, Mack MJ (eds) Atlas of Endoscopic Spine Surgery. Quality Medical Publishing, St. Louis, Missouri; 1995; pp 165-185.

41. Regan JJ: *Adult Spinal Deformity*. In: Regan JJ, McAfee PC, Mack MJ (eds) Atlas of Endoscopic Spine Surgery. Quality Medical Publishing, St. Louis, Missouri; 1995; pp 199-214.
42. Regan JJ: *Thoracolumbar Discectomy*. In: Regan JJ, McAfee PC, Mack MJ (eds) Atlas of Endoscopic Spine Surgery. Quality Medical Publishing, St. Louis, Missouri; 1995; pp 233-242.
43. Guyer RD, Kambin P: *Arthroscopic Microdiscectomy: Posterolateral Approach*. In: Regan JJ, McAfee PC, Mack MJ (eds) Atlas of Endoscopic Spine Surgery. Quality Medical Publishing, St. Louis, Missouri; 1995; pp 257-274.
44. Regan JJ: *Endoscopic Applications of the BAK System (L4-5)*. In: Regan JJ, McAfee PC, Mack MJ (eds) Atlas of Endoscopic Spine Surgery. Quality Medical Publishing, St. Louis, Missouri; 1995; pp 321-332.
45. Regan JJ, Mack MJ: *Endoscopic Thoracic Fusion Cage*. In: Regan JJ, McAfee PC, Mack MJ (eds) Atlas of Endoscopic Spine Surgery. Quality Medical Publishing, St. Louis, Missouri; 1995; pp 350-354.
46. Regan JJ, McAfee PC: *Thoracoscopy and Laparoscopy of the Spine*. In: Bridwell KH, DeWald RL (eds) The Textbook of Spinal Surgery. JP Lippincott, Philadelphia, Pennsylvania; 1995.
47. Regan JJ: *Disc Excision by Thoracoscopy*. In: Thompson RC Jr (ed) Master Techniques in Orthopaedic Surgery. Raven Press, New York, New York; 1995.
48. Guyer RD, Ohnmeiss DD: *Invasive Radiology and Pain Location*. In: Margulies J (ed) SPINE: State of the Art Review: Adult L5-S1 Surgery. Hanley & Belfus, Philadelphia, Pennsylvania; 1997; pp 59-67.
49. Guyer RD, Delamarter RB, Fulp T, Small SD: *Complications of Cervical Spine Surgery*. In: H Herkowitz et al. (eds) The Spine. WB Saunders Company, Philadelphia, Pennsylvania; 1999; pp 540-557.
50. Guyer R, Fulp T: *Minilaparotomy: Perirectus Retroperitoneal Approach for Anterior Lumbar Interbody Fusion*. In: Zdeblick TA (ed) Anterior Approaches in Spine Surgery. Quality Medical Publishing, Inc., St. Louis, Missouri; 1999; pp 203-207.
51. Guyer RD, Ohnmeiss DD: *Pain Evaluation, Invasive Radiology, and Patient Selection in Previously Operated Patients*. In: Margulies J (ed) Revision Spine Surgery. Mosby; St. Louis, Missouri; 1999; pp 201-210.
52. Triano JJ: *The Mechanics of Spinal Manipulation*. In: Herzog W (ed): Clinical Biomechanics of the Spine. Churchill Livingstone, New York, New York; 2000; pp. 92-190.
53. Triano JJ: *Chiropractic Management of Whiplash Injury*. In: Yoganandan N, Pintar FW (eds): Frontiers in Whiplash Trauma: Clinical and Biomechanical. IOS Press, The Netherlands; 2000; pp. 574-588.
54. Triano JJ: *Managing Geriatric Spine Patients*. In: Bougie J, Morgenthal P (eds): The Aging Body. McGraw Hill Publishers, New York, New York; 2001; pp. 95-148.

55. Triano JJ: *Manipulative Therapy in the Management of Pain*. In: Tollison CD, Satterthwaite JR, Tollison JW (eds): Practical Pain Management, 3rd Edition, Lippincott Williams & Wilkins; 2002; pp. 109-119.
56. Zigler JE, McGregor M, Triano JJ: *Whiplash*. In: Fitzgerald RH, Kaufer H, Malkani AL (eds): Orthopaedics. Mosby, St. Louis, Missouri; 2002.
57. Guyer RD, Blumenthal SL: *Preliminary United States Experience with the SB Charité III Artificial Discs*. In: Büttner-Janz K, Hochschuler SH, McAfee PC (eds): The Artificial Disc. Springer-Verlag, Berlin, Germany; 2003; pp 139-145.
58. Sachs BL, Ohnmeiss DD: *Technique for Performing Lumbar Discography*. In: Büttner-Janz K, Hochschuler SH, McAfee PC (eds): The Artificial Disc. Springer-Verlag, Berlin, Germany; 2003; pp 85-93.
59. Keller J: *Rehabilitation Following Total Disc Replacement Surgery*. In: Büttner-Janz K, Hochschuler SH, McAfee PC (eds): The Artificial Disc. Springer-Verlag, Berlin, Germany; 2003; pp 175-182.
60. Triano JJ: *Manipulation*. In: Cole A, Herring S (eds) The Low Back Pain Handbook, 2nd Edition. Hanley & Belfus, Inc., Philadelphia, Pennsylvania; 2003; pp. 169-178.
61. Johnson MC, Zigler JE: *Whiplash: Diagnosis and Treatment*. In: Fischgrund J (ed): Neck Pain. American Academy of Orthopaedic Surgeons, Rosemont, Illinois; 2004; pp. 27-34.
62. Guyer RD, Ohnmeiss DD: *Degenerative Disc Disease: Fusion Cages and Dowels*. In: Herkowitz H, Dvorak J, Bell G, et al (eds): The Lumbar Spine, 3rd Edition. Lippincott Williams & Wilkins, Philadelphia, Pennsylvania; 2004; pp. 342-351.
63. Blumenthal SL, Ohnmeiss DD: *Degenerative Disc Disease: Complications of Surgery*. In: Herkowitz H, Dvorak J, Bell G, et al (eds): The Lumbar Spine, 3rd Edition. Lippincott Williams & Wilkins, Philadelphia, Pennsylvania; 2004; pp. 360-372.
64. Ohnmeiss DD, Rashbaum RF: *Management of the Failed Back Patient: Spinal Cord Stimulation*. In: Herkowitz H, Dvorak J, Bell G, et al (eds): The Lumbar Spine, 3rd Edition. Lippincott Williams & Wilkins, Philadelphia, Pennsylvania; 2004; pp. 905-911.
65. Henry S, Guyer RD: *Revision Decompressive / Disc Surgery*. In: Frymoyer J et al (ed): The Adult and Pediatric Spine. Lippincott Williams & Wilkins, Philadelphia, Pennsylvania; 2004; pp 1153-1163.
66. Guyer RD, Corbin TP: *Minimally Invasive Posterior Fusion and Internal Fixation with ATAVI System*. In: Kambin P (eds): Arthroscopic and Endoscopic Spinal Surgery; Text and Atlas. Humana Press, Totowa, New Jersey; 2005; pp 227-238.
67. Ohnmeiss DD, Blumenthal SL: *Evolution in the Treatment of Lumbar Disc-Related Pain*. In: Guyer RD, Zigler JE (eds): Spinal Arthroplasty: A New Era in Spine Care. Quality Medical Publishers, St. Louis, Missouri; 2005; pp 3-24.
68. Sachs BL, Clawson JJ: *Indications and Contra-indications for Total Disc Replacement*. In: Guyer RD, Zigler JE (eds) Spinal Arthroplasty: A New Era in Spine Care. Quality Medical Publishers, St. Louis, Missouri; 2005; pp 39-46.

69. Spitler J, Sachs BL, Ohnmeiss DD: *Design Considerations for an Artificial Disc*. In: Guyer RD, Zigler JE (eds): Spinal Arthroplasty: A New Era in Spine Care. Quality Medical Publishers, St. Louis, Missouri; 2005; pp 67-78.
70. Zigler JE: *ProDisc: Long and Intermediate-Term Clinical Results*. In: Guyer RD, Zigler JE (eds) Spinal Arthroplasty: A New Era in Spine Care. Quality Medical Publishers, St. Louis, Missouri; 2005; pp 93-100.
71. Guyer RD, Burd TA, Hochschuler SH, McAfee PC: *Total Disc Replacement*. In: Guyer RD, Zigler JE (eds): Spinal Arthroplasty: A New Era in Spine Care. Quality Medical Publishers, St. Louis, Missouri; 2005; pp 181-224.
72. Guyer RD: *InFix Interbody Fusion Device*. In: Haid RW Jr, Fessler R, McLaughlin MR (eds) Interbody Fusion Techniques: Cages, Dowels, and Grafts. Quality Medical Publishing, Inc. St. Louis, Missouri; 2005; pp 133-147.
73. Hochschuler SH, Ohnmeiss DD: *Artificial Disc: Clinical Results of Motion Segment Replacement*. In: Corbin TP, Connolly PJ, Yuan H, Bao Q-B, Boden SD (eds): Emerging Spine Surgery Technologies: Evidence and Framework for Evaluating New Technology. Quality Medical Publishing, St. Louis, Missouri; 2005; pp 519-526.
74. McAfee PC, Guyer RD: *CHARITE Artificial Disc Replacement*. In: Corbin TP, Connolly PJ, Yuan H, Bao Q-B, Boden SD (eds): Emerging Spine Surgery Technologies: Evidence and Framework for Evaluating New Technology. Quality Medical Publishing, St. Louis, Missouri; 2005; pp 527-562.
75. Zigler JE: *Medical Rehabilitation after Spinal Cord Injury*. In: Clark CR, Benzel EC, Currier BL, Dormans JP, Dvorak JP, Eismont F, Garfin SR, Herkoqitz HN, Ullrich CG, Vaccaro AR (eds): The Cervical Spine, 4th Edition. Lippincott Williams & Wilkins, Philadelphia, Pennsylvania; 2005; pp. 741-745.
76. Ohnmeiss DD: *Imaging*. In: Whitaker C, Hochschuler SH (eds): Pocket Spine. Quality Medical Publishing, St. Louis, Missouri; 2006; pp 13-28.
77. Dickerman RD, Zigler JE: *Discogenic Low Back Pain*. In: Spivak JM, Connelly PJ (eds): Orthopaedic Knowledge Update: Spine 3. American Academy of Orthopaedic Surgeons; Rosemont, Illinois; 2006; pp 319-29.
78. Guyer RD, Johnson MC: *Revision Strategies: Failed Instrumentation*. In: Herkowitz H, Garfin S, Eismont FJ, Bell GR, Balderston RA (eds): Rothman-Simeone: The Spine 5th Edition. Saunders Elsevier, Philadelphia, Pennsylvania; 2006; pp 1540-1547.
79. Blumenthal SL, Moore S, Mataragas NR: *Lumbar Spine - Anterior Anatomy and Surgical Approach*. In: Herkowitz H, Garfin S, Eismont FJ, Bell GR, Balderston RA (eds): Rothman-Simeone: The Spine 5th Edition. Saunders Elsevier, Philadelphia, Pennsylvania; 2006; pp. 328-333.
80. Zigler JE, Bennett MT: *ProDisc Lumbar Artificial Disk*. In: Kim DH, Cammisa FP Jr., Fessler RG (eds): Dynamic Reconstruction of the Spine. Thieme Medical Publishers, New York, New York; 2006; pp. 179-185.

81. Guyer RD: *Impliant TOPS: Total Posterior Element Replacement*. In: Szpalski M, Gunzburg R, Le Huec J-C, Brayda-Bruno M (eds): Nonfusion Technologies in Spine Surgery. Lippincott Williams and Wilkins, Philadelphia, Pennsylvania; 2007; pp 221-224.
82. Guyer RD, Craig L: *U.S. Update of CHARITÉ One Year after FDA Approval*. In: Szpalski M, Gunzburg R, Le Huec J-C, Brayda-Bruno M (eds): Nonfusion Technologies in Spine Surgery. Lippincott Williams and Wilkins, Philadelphia, Pennsylvania; 2007; pp 151-157.
83. Block AR, Guyer RD: *Chronic Pain Management as an Alternative to Spine Surgery*. In: Schatman M, Campbell A, Loeser JD (eds): Chronic Pain Management: Guidelines for Multidisciplinary Program Development. CRC Press, Boca Raton, Florida; 2007; pp. 65-74.
84. Guyer RD, Ohnmeiss DD: *Disc Replacement*. In: Slipman CW, Simeone F, Derby R, Mayer TG (eds): Interventional Spine: An Algorithmic Approach. Saunders Elsevier, Philadelphia, Pennsylvania; 2008; pp 1389-1396.
85. Singh K, Yakel DM, Wojewnik B, Ohnmeiss DD, Vaccaro A, Blumenthal SL: *Lumbar Spine Arthroplasty: Charité Total Disk Replacement*. In: Vaccaro A, Baron EM (eds): Operative Techniques: Spine Surgery. Saunders Elsevier, Philadelphia, Pennsylvania; 2008; pp 409-428.
86. Guyer RD, Ohnmeiss DD: *Socioeconomic Impact of Motion Preservation Technology*. In: Yue JJ, Bertagnoli R, McAfee PC, An HS (eds): Motion Preservation Surgery of the Spine: Advanced Techniques and Controversies. Saunders Elsevier, Philadelphia, Pennsylvania; 2008; pp 132-137.
87. Blumenthal SL, Ohnmeiss DD: *Charite Artificial Disc*. In: Yue JJ, Bertagnoli R, McAfee PC, An HS (eds): Motion Preservation Surgery of the Spine: Advanced Techniques and Controversies. Saunders Elsevier, Philadelphia, Pennsylvania; 2008; pp 309-317.
88. Blumenthal SL, Geisler F, Roush T, Ohnmeiss DD: *Simultaneous Lumbar Fusion and Total Disc Replacement*. In: Yue JJ, Bertagnoli R, McAfee PC, An HS (eds): Motion Preservation Surgery of the Spine: Advanced Techniques and Controversies. Saunders Elsevier, Philadelphia, Pennsylvania; 2008; pp 617-619.
89. Hochschuler SH, Ohnmeiss DD: *The Future of Motion Preservation*. In: Yue JJ, Bertagnoli R, McAfee PC, An HS (eds): Motion Preservation Surgery of the Spine: Advanced Techniques and Controversies. Saunders Elsevier, Philadelphia, Pennsylvania; 2008; pp 760-769.
90. Rashbaum RF, Ohnmeiss DD: *Facet Joint Anatomy and Approach for Denervation*. In: Ozgur B, Benzel E, Garfin SR (eds): Minimally Invasive Spine Surgery. Springer, New York, New York; 2009; pp. 93-98.
91. Guyer RD, Roybal R: *Disc Arthroplasty: The Charite' Study-What Does It Really Mean?* In: Resnick DK, Wang J, Haid RW (eds): Surgical Management of Low Back Pain 2nd Edition. Thieme, New York, New York; 2009; pp. 194-200.
92. Blumenthal SL: *Lumbar Spinal Arthroplasty*. In: Vaccaro A, Albert T (eds): Spine Surgery: Tricks of the Trade 2nd Edition. Thieme, New York, New York; 2009; pp. 297-300.

93. Rashbaum RF, Block AR, Ohnmeiss DD: *Spine Clinics*. In: Fishman SM, Ballantyne JC, Rathmell JP (eds): Bonica's Management of Pain 4th Edition. Lippincott Williams & Wilkins, Philadelphia, Pennsylvania; 2009; pp. 1532-1536.
94. Dickerman RD, O'Malley M, Zigler JE: *Socioeconomics of Spinal Injuries*. In: Jallo J, Vaccaro AR (eds): Neurotrauma and Critical Care of the Spine. Thieme Medical Publishers, Inc. New York, New York; 2009; pp 210-219.
95. Pereira M, Hochschuler SH, Ohnmeiss DD: *Inter-spinous Devices*. In: Phillips FM, Laurysen C (eds): The Lumbar Intervertebral Disc. Thieme Medical, New York, New York; 2010; pp. 191-197.
96. Ohnmeiss DD: *Cognitive Therapy for Symptomatic Disc Degeneration*. In: Phillips FM, Laurysen C (eds): The Lumbar Intervertebral Disc. Thieme Medical, New York, New York; 2010; pp. 161-166.
97. Guyer RD, Roush TF: *Fusion: Combined Anterior-Posterior Approach*. In: Phillips FM, Laurysen C (eds): The Lumbar Intervertebral Disc. Thieme Medical; New York, New York; 2010; pp. 241-247.
98. Guyer RD, Ohnmeiss DD: *How Disc Replacement Fits in the Treatment Algorithm for Degenerative Disc Disease: Refining Indications for Disc Replacement*. In: Szpalski M, Gunzburg R, Rydevik, BL, Le Huec J-C, Mayer HM (eds): Surgery for LowBackPain. Springer, Heidelberg, Germany; 2010; pp 177-182.
99. Guyer RD, Ohnmeiss DD: *Prospective Randomized Comparison of Two Lumbar Total Disc Replacements*. In: Szpalski M, Gunzburg R, Rydevik, BL, Le Huec J-C, Mayer HM (eds): Surgery for LowBackPain. Springer, Heidelberg, Germany; 2010; pp 193-198.
100. Guyer RD, Ohnmeiss DD, Strauss KR: *Overview of Pedicle Screw Based Posterior Dynamic Stabilization Systems*. In: Szpalski M, Gunzburg R, Rydevik, BL, Le Huec J-C, Mayer HM (eds): Surgery for LowBackPain. Springer, Heidelberg, Germany; 2010; pp 221-226.
101. Arakal RG, Mani M, Ramachandran R: *Applied Anatomy of the Normal and Aging Spine*. In: Yue JJ, Guyer RD, Johnson JP, Khoo LT, Hochschuler SH (eds): The Comprehensive Treatment of the Aging Spine: Minimally Invasive and Advanced Techniques. Elsevier, Philadelphia, Pennsylvania; 2010; pp. 9-15.
102. Araghi A, Ohnmeiss DD: *Natural History of the Degenerative Cascade*. In: Yue JJ, Guyer RD, Johnson JP, Khoo LT, Hochschuler SH (eds): The Comprehensive Treatment of the Aging Spine: Minimally Invasive and Advanced Techniques. Elsevier, Philadelphia, Pennsylvania; 2010; pp. 20-24.
103. Marchetti J: *Role of Spinal Injections in Treating the Aging Spine*. In: Yue JJ, Guyer RD, Johnson JP, Khoo LT, Hochschuler SH (eds): The Comprehensive Treatment of the Aging Spine: Minimally Invasive and Advanced Techniques. Elsevier, Philadelphia, Pennsylvania; 2010; pp. 105-109.
104. Shellock J, Guyer RD: *Lumbar Disc Arthroplasty: Indications and Contraindications*. In: Yue JJ, Guyer RD, Johnson JP, Khoo LT, Hochschuler SH (eds): The Comprehensive

- Treatment of the Aging Spine: Minimally Invasive and Advanced Techniques. Elsevier, Philadelphia, Pennsylvania; 2010; pp. 366-373.
105. Hochschuler SH, Ohnmeiss DD: *Economics of Spine Care*. In: Yue JJ, Guyer RD, Johnson JP, Khoo LT, Hochschuler SH (eds): The Comprehensive Treatment of the Aging Spine: Minimally Invasive and Advanced Techniques. Elsevier, Philadelphia, Pennsylvania; 2010; pp. 443-446.
 106. Araghi A: *Guided Lumbar Interbody Fusion*. In: Yue JJ, Guyer RD, Johnson JP, Khoo LT, Hochschuler SH (eds): The Comprehensive Treatment of the Aging Spine: Minimally Invasive and Advanced Techniques. Elsevier, Philadelphia, Pennsylvania; 2010; pp. 452-456.
 107. Guyer RD, Glenn J: *Anterior Approach to the Lumbar Spine*. In: Herkowitz HN, Garfin SR, Eismont FJ, Bell GR, Balderston RA (eds): Rothman-Simeone: The Spine 6th edition. Elsevier; Philadelphia, Pennsylvania; 2011; pp. 919-929.
 108. Baron EM, Vaccaro AR, Zigler JE: *Epidemiology of Spinal Cord Injury*. In: Zigler JE, Eismont FJ, Garfin SR, Vaccaro AR (eds): Spine Trauma, 2nd Edition. American Academy of Orthopaedic Surgeons, Rosemont, Illinois; 2011; pp. 1-10.
 109. Rothman SLG, Zigler JE: *An Imaging Atlas of Spinal Injury*. In: Zigler JE, Eismont FJ, Garfin SR, Vaccaro AR (eds): Spine Trauma, 2nd Edition. American Academy of Orthopaedic Surgeons, Rosemont, Illinois; 2011; pp. 209-236.
 110. Dickerman RD, Guyer RD: *Intraoperative Evaluation: Somatosensory-Evoked Potentials and Electromyography*. In: Zigler JE, Eismont FJ, Garfin SR, Vaccaro AR (eds): Spine Trauma, 2nd Edition. American Academy of Orthopaedic Surgeons, Rosemont, Illinois; 2011; pp. 261-270.
 111. Rimoldi R, Zigler JE: *Immediate Postoperative Care*. In: Zigler JE, Eismont FJ, Garfin SR, Vaccaro AR (eds): Spine Trauma, 2nd Edition. American Academy of Orthopaedic Surgeons, Rosemont, Illinois; 2011; pp. 645-650.
 112. Zigler JE, Resnik C, Carroll L, Ramirez AN, Atkins M, Thompson L: *Rehabilitation*. In: Zigler JE, Eismont FJ, Garfin SR, Vaccaro AR (eds): Spine Trauma, 2nd Edition. American Academy of Orthopaedic Surgeons, Rosemont, Illinois; 2011; pp. 651-700.
 113. Ohnmeiss DD: *Numerical Rating Scales*. In: Rihn JA, Vaccaro AR, Albert TJ (eds): Defining the Value of Spine Care. Jaypee Brothers Medical Publishers, New Delhi, India; 2012; pp. 73-80.
 114. Guyer RD, Ohnmeiss DD: *How to Calculate the Cost of Spine Care*. In: Rihn JA, Vaccaro AR, Albert TJ (eds): Defining the Value of Spine Care. Jaypee Brothers Medical Publishers, New Delhi, India; 2012; pp. 109-118.
 115. Duffy MF, Zigler JE: *Degenerative Disc Disease: Fusion versus Artificial Disc*. In: Jandial R, Garfin SR (eds): Best Evidence for Spine Surgery: 20 Cardinal Cases. Elsevier Saunders, Philadelphia, Pennsylvania; 2012; pp. 70-92.

116. Lieberman IH, Thongtrangan I: *Vertebroplasty/Kyphoplasty*. In: Vaccaro AR, Baron EM (eds): Operative Techniques: Spine Surgery, 2nd Edition. Elsevier, Philadelphia, Pennsylvania; 2012; pp. 336-345.
117. Duffy MF, Zigler JE: *Lumbar Total Disc Arthroplasty*. In: Vaccaro AR, Baron EM (eds): Operative Techniques: Spine Surgery, 2nd Edition. Elsevier, Philadelphia, Pennsylvania; 2012; pp. 327-335.
118. Block AR: Spine Surgery. In: Block AR, Sarwar DB (eds): Presurgical Psychological Screening: Understanding Patients, Improving Outcomes. American Psychological Association. Washington, D.C., 2012; pp. 43-60.
119. Guyer RD, Ohnmeiss DD: *Mini-ALIF: Anterior Lumbar Interbody Fusion*. In Singh K, (eds): Minimally Invasive Spine Surgery: An Algorithmic Approach. Jaypee Brothers Medical Publishers. New Delhi, India; 2013, pp. 44-49.
120. Thongtrangan I, Guyer RD: *Lumbar Artificial Disc*. In: Vaccaro AR, Eck JC (eds): Surgical Atlas of Spinal Operations. Jaypee Brothers Medical Publishers, New Delhi, India; 2013, pp. 374-384.
121. Zigler JE, Duffy MF: *Lumbar Disc Replacement*. In: Vaccaro AR, Su BW, Wang Y, et al. (eds): The Spine. Jaypee Brothers Medical Publishers, New Delhi, India; in press.
122. Blumenthal SL, Ohnmeiss DD: *Dural and Neural Injury*. In: Phillips FM, Lieberman IH, Polly DW Jr. (eds): Minimally Invasive Spine Surgery: Surgical Techniques and Disease Management. Springer, New York, New York; to be published in 2014.
123. Lieberman IH: *Robotics*. In: Phillips FM, Lieberman IH, Polly DW Jr. (eds): Minimally Invasive Spine Surgery: Surgical Techniques and Disease Management. Springer, New York, New York; to be published in 2014.
124. Morrison T, Guyer RD, Ohnmeiss DD: *Complications of Cervical Disc Replacement*. In: Kim D, Cammisa FP, Fessler RG, Sengupta DK, Yoon KJ (eds): Dynamic Reconstruction of the Spine 2nd Edition. Thieme Medical Publishers, New York, New York, to be published in 2014.
125. Zigler JE: *ProDisc-L Artificial Disc*. In: Kim D, Cammisa FP, Fessler RG, Sengupta DK, Yoon KJ (eds): Dynamic Reconstruction of the Spine 2nd Edition. Thieme Medical Publishers, New York, New York, to be published in 2014.
126. Ilalov K, Guyer RD, Zigler JE, Ohnmeiss DD: *Clinical Results of Total Lumbar Disc Replacement, Including Update of IDE Trials*. In: Kim D, Cammisa FP, Fessler RG, Sengupta DK, Yoon KJ (eds): Dynamic Reconstruction of the Spine 2nd Edition. Thieme Medical Publishers, New York, New York, to be published in 2014.
127. Ohnmeiss DD: *Imaging*. In: Whitaker C, Hochschuler SH (eds): Pocket Spine. 2nd edition. Quality Medical Publishing, St. Louis, Missouri; to be published in 2014.
128. Block AR, Shellock J: *Back Pain*. In: Gatchel RJ, Schultz IZ (eds.): Handbook of Musculoskeletal Pain and Disability Disorders in the Workplace. Springer, New York, New York, in press.

129. Hu X, Bonsignore C, Lieberman IH: *Role of Navigation and Robotics in Spine Surgery*. In: Wang JC, Mroz T (eds): Spine Surgery: Current Concepts and Evidence. McGraw-Hill; in press.
130. Blumenthal SL, Biehn J: *Lumbar Spinal Arthroplasty*. In: Vaccaro AR, Albert TJ (eds): Spine Surgery: Tricks of the Trade, 3rd edition. Thieme Medical Publishers, Inc., New York, New York, in press.

Presentations

1. Sachs BL, Spivey MA, Guyer RD, Johnson RG, Rashbaum RF, Hochschuler SH, Vanharanta H, Aprill C, Terry A, Selby D, Mooney V: Dallas Discogram Description: A New Classification of CT/Discography. International Society for the Study of Lumbar Spine. June, 1986; Dallas, Texas.
2. Sachs BL, Spivey MA, Guyer RD, Johnson RG, Rashbaum RF, Hochschuler SH, Vanharanta H, Aprill C, Terry A, Selby D, Mooney V: A Clinical Grading System of CT/Discography for Diagnostic Value in Low Back Problems. International Society for the Study of Lumbar Spine. June, 1986; Dallas, Texas.
3. Vanharanta H, Sachs BL, Spivey MA, Hochschuler SH, Guyer RD, Rashbaum RF, Johnson R: Disc Degeneration and Leaking of Annulus in Reproduction of Back Pain During Discography, a CT/Discographic Study. International Society for the Study of Lumbar Spine. June, 1986; Dallas, Texas.
4. Vanharanta H, Videman T, Sachs BL, et al. McKenzie Exercises, Back TracTM and Back School in Lumbar Syndrome. International Society for the Study of Lumbar Spine. June, 1986; Dallas, Texas.
5. Vanharanta H: Occupation, Workload, and the Size and Shape of Lumbar Vertebral Canals. International Society for the Study of Lumbar Spine. June, 1986; Dallas, Texas.
6. Sachs BL, Spivey MA, Guyer RD, Johnson RG, Rashbaum RF, Hochschuler SH, Vanharanta H, Aprill C, Terry A, Selby D, Mooney V: Dallas Discogram Description: A New Classification of CT/Discography. North American Spine Society. July, 1986; Bolton Landing, New York.
7. Vanharanta H, Sachs BL, Spivey MA, Hochschuler SH, Guyer RD, Rashbaum RF, Johnson R: Disc Degeneration and Leaking of Annulus in Reproduction of Back Pain During Discography, a CT/Discography Study. North American Spine Society. July, 1986; Bolton Landing, New York.
8. Vanharanta H, Sachs BL: McKenzie Exercises, Back Trac and Back School in Lumbar Syndrome. North American Spine Society. July, 1986; Bolton Landing, New York.
9. Sachs BL, Spivey MA, Guyer RD, Johnson RG, Rashbaum RF, Hochschuler SH, Vanharanta H, Aprill C, Terry A, Selby D, Mooney V: A Clinical Grading System of CT/Discography for Diagnostic Values in Low Back Problems. Federation of Spine Associations, January 1987, San Francisco, California.

10. Loguidice VA, Guyer RD, Johnson RG, Rashbaum RF, Hochschuler SH: Anterior Lumbar Interbody Fusions. Texas Medical Association. May, 1987; Houston, Texas.
11. Sachs BL, Vanharanta H, Spivey MA, Guyer RD, Hochschuler SH, Rashbaum RF: Technique of CT/Discography. International Society for the Study of the Lumbar Spine. May, 1987; Rome, Italy.
12. Loguidice VA, Guyer RD, Johnson RG, Rashbaum RF, Hochschuler SH, Stith WJ, Ohnmeiss DD: Anterior Lumbar Interbody Fusions. North American Spine Society. June, 1987; Banff, Canada.
13. Guyer RD, Collier R, Rashbaum RF, Hochschuler SH, Stith WJ, Ohnmeiss DD, Loguidice VA: Extraosseous Spinal Lesions Mimicking Disc Disease. North American Spine Society. June, 1987; Banff, Canada.
14. Vanharanta H, Sachs BL, Spivey M, Rashbaum RF, Guyer RD, Hochschuler SH, Ohnmeiss DD, Johnson RG, Mooney V: Comparison of Disc Narrowing with Discographic Degenerative Changes and Pain Provocation. North American Spine Society. June, 1987; Banff, Canada.
15. Hochschuler SH, Rashbaum RF, Guyer RD, Stith WJ, Ohnmeiss DD: Proplast Reconstruction of Iliac Crest Defects. North American Spine Society. June, 1987; Banff, Canada.
16. Guyer RD: Intra-Spinal Tumors Mimicking Herniated Disc Disease. Western Orthopaedic Association. September, 1987; Dallas, Texas.
17. Hochschuler SH: Graft Donor Site. Challenge of the Lumbar Spine. October, 1988; San Antonio, Texas.
18. Hochschuler SH: Percutaneous Discectomy. Challenge of the Lumbar Spine. October, 1988; San Antonio, Texas.
19. Guyer RD, Collier R, Hochschuler SH, Rashbaum RF, Regan JJ, Stith WJ, Ohnmeiss DD: Post-discography Discitis. International Society for the Study of the Lumbar Spine. April, 1988; Bal Harbour, Florida.
20. Vanharanta H, Sachs BL, Spivey M, Aprill C, Ohnmeiss DD, Guyer RD, Rashbaum RF, Hochschuler SH, Stith WJ, Mooney V: Disc Deterioration in Low Back Syndromes: A Prospective, Multi-center CT/Discography Study. International Society for the Study of the Lumbar Spine. April, 1988; Bal Harbour, Florida.
21. Lonstein MA, Johnson R, Guyer RD: Posterior Lumbar Fusion and Instrumentation. Texas Medical Association. May, 1988; San Antonio, Texas.
22. Hopp S, Johnson R, Guyer RD: Microscopic Discectomy and Fusion for Cervical Syndrome. Texas Medical Association. May, 1988; San Antonio, Texas.
23. Vanharanta H, Sachs BL, Spivey M, Aprill C, Ohnmeiss DD, Guyer RD, Rashbaum RF, Hochschuler SH, Stith WJ, Mooney V: Disc Deterioration in Low Back Syndromes: A Prospective Multi-center CT/Discography Study. North American Spine Society. July, 1988; Colorado Springs, Colorado.

24. Vanharanta H, Ohnmeiss DD, Stith WJ, Regan JJ, Hochschuler SH, Guyer RD, Mooney V: The Effect of Repeated Trunk Extension and Flexion Movements As Seen By CT/Discography. North American Spine Society. July, 1988; Colorado Springs, Colorado.
25. Guyer RD, Collier R, Hochschuler SH, Rashbaum RF, Regan JJ, Stith WJ, Ohnmeiss DD: Post-discography Discitis. North American Spine Society. July, 1988; Colorado Springs, Colorado.
26. Shea D, Stith WJ, Ohnmeiss DD, Hochschuler SH, Guyer RD, Rashbaum RF: The Effect of Sensory Deprivation on the Reduction of Pain in Chronic Low Back Patients. North American Spine Society. July, 1988; Colorado Springs, Colorado.
27. Vanharanta H, Ohnmeiss DD, Stith WJ, Regan JJ, Hochschuler SH, Guyer RD, Mooney V: Effect of Repeated Trunk Extension and Flexion Movements as Seen by CT/Discography. Federation of Spine Associations. February, 1989; Las Vegas, Nevada.
28. Hochschuler SH: Percutaneous Discectomy. American Operating Room Nurses Congress. February, 1989.
29. Vanharanta H, Ohnmeiss DD, Stith WJ, Guyer RD, Hochschuler SH, Rashbaum RF, Sachs BL: The Effect of Lumbar Level in Painful Disc Deterioration. International Society for the Study of the Lumbar Spine. May, 1989; Kyoto, Japan.
30. Shelokov AP, Roach JW, Pollo F, Short D: Residual Gain Abnormalities in Spondylolisthesis. North American Spine Society. July, 1989; Quebec City, Canada.
31. Guyer RD: Evaluation and Management of Lumbar Disc Disease. American Academy of Pain Medicine. November, 1989; Dallas, Texas.
32. Ritz S, Lorren T, Ohnmeiss DD, Stith WJ: Repeatability of Sub-maximal Isokinetic Trunk Strength Testing. International Isokinetic Congress. May, 1990; Washington, D.C.
33. Guyer RD, Ohnmeiss DD, Hochschuler SH, Stith WJ, Rashbaum RF, Regan JJ: The Use of CT/Discography to Identify Recurrent Disc Herniation Not Visualized by Gadolinium Enhanced MRI. North American Spine Society. August, 1990; Monterey, California.
34. Guyer RD: Arthroscopic Microdiscectomy. North American Spine Society Instructional Course. August, 1990; Monterey, California.
35. Hochschuler SH, Guyer RD, Ohnmeiss DD, Stith WJ, Rashbaum RF, Regan JJ: The Use of Donor Femur Grafts in Anterior Lumbar Interbody Fusion. American Academy of Orthopaedic Surgeons. March, 1991; Anaheim, California.
36. Guyer RD, Ohnmeiss DD, Hochschuler SH, Stith WJ, Rashbaum RF, Regan JJ: The Use of CT/Discography to Identify Recurrent Disc Herniation Not Visualized by Gadolinium Enhanced MRI. Federation of Spine Associations. March, 1991; Anaheim, California.
37. Guyer RD, Ohnmeiss DD, Stith WJ, Hochschuler SH, Rashbaum RF, Regan JJ: Comparison of Single Level Arthroscopic Microdiscectomy to Laminectomy and Discectomy. International Intradiscal Therapy Society. April, 1991; Houston, Texas.
38. Herbert M, Pepper J, Guyer RD: Changes in Intervertebral Disc Pressure with Flexion after L5-S1 Posterior Instrumentation. International Society for the Study of the Lumbar Spine. May, 1991; Heidelberg, Germany.

39. Guyer RD, Hochschuler SH, Ohnmeiss DD, Stith WJ, Spivey MA, Castleman C, Rashbaum RF, Regan JJ: Cine MRI to Visualize Functional Pathology in the Spine. North American Spine Society. August, 1991; Keystone, Colorado.
40. Guyer RD, Ohnmeiss DD, Stith WJ, Bonnicks SL, Hochschuler SH, Rashbaum RF, Regan JJ: Changes in Vertebral Bone Density Following Lumbar Spine Fusion and Post-operative Bracing. North American Spine Society. August, 1991; Keystone, Colorado.
41. Hochschuler SH, Guyer RD, Ohnmeiss DD, Stith WJ, Rashbaum RF, Regan JJ: Comparison of Single Level Arthroscopic Microdiscectomy to Laminectomy and Discectomy. North American Spine Society. August, 1991; Keystone, Colorado.
42. Rashbaum RF, Ohnmeiss DD, Stith WJ, Guyer RD, Hochschuler SH, Regan JJ: Initial Results of Spinal Cord Stimulation in Chronic Pain Patients. North American Spine Society. August, 1991; Keystone, Colorado.
43. Hochschuler SH, Guyer RD, Ohnmeiss DD, Rashbaum RF, Regan JJ: Single-level Stabilization with Femur Grafts. North American Spine Society. August, 1991; Keystone, Colorado.
44. Regan JJ, Shelokov AP, Guyer RD, Hochschuler SH, Rashbaum RF: Use of the Texas Scottish Rite Hospital System Anteriorly in Adult Scoliosis. North American Spine Society. August, 1991; Keystone Colorado.
45. Regan JJ, Mack M, Shelokov AP, Guyer RD, Hochschuler SH, Rashbaum RF: Thoroscopy in the Diagnosis and Treatment of Lesions in the Dorsal Spine. North American Spine Society. August, 1991; Keystone Colorado.
46. Regan JJ, Shelokov AP: Use of the Texas Scottish Rite Hospital System Anteriorly in Adult Scoliosis. Scoliosis Research Society. September, 1991; Minneapolis, Minnesota.
47. Gertzbein SD, Magerl F, Harnes J, Nazarian S, Aebi M: A New Classification of Spinal Fractures. Scoliosis Research Society. September, 1991; Minneapolis, Minnesota.
48. Gertzbein SD: Spine Fracture Study Final Report: A Multicenter Study of Fractures of the Thoracic and Lumbar Spine. Scoliosis Research Society. September, 1991; Minneapolis, Minnesota.
49. Guyer RD: Mechanisms of Pain Relief with Arthroscopic Microdiscectomy. International Society for Minimally Invasive Spine Surgery. November, 1991; Philadelphia, Pennsylvania.
50. Hochschuler SH: Current Results of Arthroscopic Microdiscectomy. International Society for Minimally Invasive Spine Surgery. November 1991; Philadelphia, Pennsylvania.
51. Guyer RD, Hochschuler SH, Ohnmeiss DD, Stith WJ, Spivey MA, Castleman C, Rashbaum RF, Regan JJ: Dynamic MRI: A New Technique to Identify Functional Pathology in the Spine. Federation of Spine Associations. February, 1992; Washington, D.C.
52. Regan JJ, Shelokov AP, Guyer RD, Hochschuler SH, Rashbaum RF: Use of the Texas Scottish Rite Hospital System Anteriorly in Adult Scoliosis. American Academy of Orthopaedic Surgeons. February, 1992; Washington, D.C.

53. Dickey JP, Harris MB, Gertzbein SD: Relationship of Rotational Burst Fractures to Neurological Deficit. American Academy of Orthopaedic Surgeons. February, 1992; Washington, D.C.
54. Regan JJ, Shelokov AP, Alfano S, Guyer RD, Hochschuler SH, Rashbaum RF: Use of the Texas Scottish Rite Hospital System Anteriorly in Adult Scoliosis. Scoliosis Research Society/North American Spine Society joint conference on Pedicle Fixation of the Lumbar Spine. April, 1992; Phoenix, Arizona.
55. Herbert M, Kent D, Rashbaum R, Ohnmeiss D: Transfer of Intervertebral Disc Pressure to Adjacent Discs during Discography. International Society for the Study of the Lumbar Spine. May, 1992; Chicago, Illinois.
56. Gertzbein SD, Triantafyllou S, Takebayashi T: Monosegmental Fixation of Thoracolumbar Distraction Injuries. International Society for the Study of the Lumbar Spine. May, 1992; Chicago, Illinois.
57. Floyd T, Hochschuler SH, Vanharanta H, Ohnmeiss DD, Guyer RD: The Relationship of Facet Tropism to Degenerative Disc Disease. North American Spine Society. July, 1992; Boston, Massachusetts.
58. Bogdanffy GM, Ohnmeiss DD, Guyer RD, Griffith SL: Bone Mineral Density above a Multi-Segmental Lumbar Spinal Fusion. American Society for Bone and Mineral Research. September, 1992; Minneapolis, Minnesota.
59. Floyd T, Shelokov AP: Kyphosis and Respiratory Insufficiency Secondary to Idiopathic Osteoporosis. American Society for Bone and Mineral Research. September, 1992; Minneapolis, Minnesota.
60. Bogdanffy GM, Griffith SL, Ohnmeiss DD: Force/Velocity Relationship in Elite and Competitive Road and Track Cyclists. American Physiological Society/American College of Sports Medicine Joint Symposium. September, 1992; Colorado Springs, Colorado.
61. Griffith SL, Bogdanffy GM, Ohnmeiss DD, Rashbaum RF: Isometric Quadriceps Function Improves After Spinal Cord Stimulation Indicated for Intractable Leg Pain. American Physiological Society/American College of Sports Medicine joint symposium. September, 1992; Colorado Springs, Colorado.
62. Floyd T, Vanharanta H, Ohnmeiss DD, Guyer RD, Hochschuler SH: The Relationship of Facet Tropism to Degenerative Disc Disease. Schriners Residents and Fellows Conference. November, 1992; New Orleans, Louisiana.
63. Floyd T, Hochschuler SH, Ohnmeiss DD, Vanharanta H: The Relationship of Facet Tropism to Degenerative Disc Disease. American Academy of Orthopaedic Surgeons. February, 1993; San Francisco, California.
64. Block A, Guyer RD, Hochschuler SH, Ohnmeiss DD, Vanharanta H: Discographic Pain Report: Influence of Psychological Factors. American Academy of Orthopaedic Surgeons. February, 1993; San Francisco, California.

65. Bogdanffy GM, Ohnmeiss DD, Griffith SL, Hochschuler SH: Short Term Effects of Progressive Physical Rehabilitation Following Lumbar Spinal Fusion and Postoperative Bracing. American College of Sports Medicine. June, 1993; Seattle, Washington.
66. Rashbaum RF, Ohnmeiss DD, Bogdanffy GM, Guyer RD: Prospective Outcome Evaluation of Spinal Cord Stimulation for Intractable Leg Pain. International Society for the Study of the Lumbar Spine. June, 1993; Marseilles, France.
67. Block AR, Vanharanta H, Ohnmeiss DD, Guyer RD, Hochschuler SH: Discordant CT/Discography Results: Psychological Factors Play a Role. International Society for the Study of the Lumbar Spine. June, 1993; Marseilles, France.
68. Perim D, Guyer RD, Elliott FT: Lumbar Laminectomy-Discectomy: Factors Associated with Increased Costs and Morbidity. International Society for the Study of the Lumbar Spine. June, 1993; Marseilles, France.
69. Griffith SL, Shelokov AP, Büttner-Janz K, LeMaire JP, Zeegers W: Clinical Results of the SB Charité Intervertebral Prosthesis. International Society for the Study of the Lumbar Spine. June, 1993; Marseilles, France.
70. Bogdanffy GM, Ohnmeiss DD, Griffith SL, Guyer RD: Relationship and Reliability of Ultrasound and Dual Energy X-Ray Absorptiometry (DXA) for the Assessment of Bone. American Society for Bone and Mineral Research. September, 1993; Tampa, Florida.
71. Ohnmeiss DD, Hochschuler SH, Guyer RD, Weinhover SL: Laser Disc Decompression: The Importance of Proper Patient Selection. North American Spine Society. October, 1993; San Diego, California.
72. Weinhover SL, Guyer RD, Herbert M, Griffith SL, Ohnmeiss DD: In Vitro Intradiscal Pressure Measurements above a Simulated Fusion. North American Spine Society. October, 1993; San Diego, California.
73. Rashbaum RF, Ohnmeiss DD, Bogdanffy GM, Guyer RD: Prospective Outcome Evaluation of Spinal Cord Stimulation for Intractable Leg Pain. North American Spine Society. October, 1993; San Diego, California.
74. Picetti GD III, Holubec JT, Holubec DM: Evaluation of Fluoroscopy in Caudal Epidural Steroid Injections. North American Spine Society. October, 1993; San Diego, California.
75. Regan JJ, Mack M, Picetti GD III, Guyer RD, Hochschuler SH, Rashbaum RF: A Comparison of Video-assisted Thoracoscopic (VAT) to Open Thoracotomy in Thoracic Spinal Surgery. North American Spine Society. October, 1993; San Diego, California.
76. Gertzbein SD: Neurological Deterioration of Patients with Thoracic and Lumbar Fractures after Admission to a Hospital. North American Spine Society. October, 1993; San Diego, California.
77. Griffith SL, Shelokov AP, Büttner-Janz K, Lemaire JP, Zeegers W: Clinical Results of the SB Charité Intervertebral Prosthesis. North American Spine Society. October, 1993; San Diego, California.

78. Ohnmeiss DD, Vanharanta H, Hochschuler SH: The Association Between Pain Drawings and Discordant Discographic Pain Reports. American Academy of Orthopaedic Surgeons. February, 1994; New Orleans, Louisiana.
79. Ohnmeiss DD, Hochschuler SH, Guyer RD, Weinhoffer SL: Laser Disc Decompression: The Importance of Proper Patient Selection. Federation of Spine Associations. February, 1994; New Orleans, Louisiana.
80. Bogdanffy GM, Ohnmeiss DD: Relationship and Reliability of Ultrasound and Dual Energy X-Ray Absorptiometry (DXA) for the Assessment of Bone. Orthopaedic Research Society. February, 1994; New Orleans, Louisiana.
81. Triano JJ: Skill of Manipulation. European Chiropractic Union. May, 1994; Brussels, Belgium.
82. Bogdanffy GM, Griffith SL, Ohnmeiss DD: Comparison of the Changes in Two Functional Isometric Parameters in Spinal Fusion Patients. American College of Sports Medicine. June, 1994; Indianapolis, Indiana.
83. Blumenthal SL, Souryal TO, Atkinson D: Evaluation of Lumbar Spine Surgery in Professional Basketball Players. American College of Sports Medicine. June, 1994; Indianapolis, Indiana.
84. Ohnmeiss DD, Vanharanta H, Guyer RD, Hochschuler SH: The Relationship between Pain Drawings and Discographic Pain Responses. International Society for the Study of the Lumbar Spine. June, 1994; Seattle, Washington.
85. Triano JJ, McGregor M, Brennan, Hondras M: Manipulative Therapy vs. Education Programs in Chronic Low Back Pain. International Society for the Study of the Lumbar Spine. June, 1994; Seattle, Washington.
86. Guyer RD, Ruoff M, Ohnmeiss DD: Combined Anterior-posterior Lumbar Spinal Fusion: Is it Safe? North American Spine Society. October, 1994; Minneapolis, Minnesota.
87. Bogdanffy GM, Ohnmeiss DD: Changes in Physical Function and Pain Following Lumbar Spinal Fusion and Progressive Active Rehabilitation. North American Spine Society. October, 1994; Minneapolis, Minnesota.
88. Vanharanta H, Ohnmeiss DD, Guyer RD: Are Lumbar Flexion-Extension Films Useful in Identifying Discogenic Pain? North American Spine Society. October, 1994; Minneapolis, Minnesota.
89. Novotny SR, Guyer RD, Regan JJ, Ohnmeiss DD: Laparoscopic Assisted Anterior Lumbar Interbody Fusion. North American Spine Society. October, 1994; Minneapolis, Minnesota.
90. McAfee PC, Regan JJ, Picetti GD III: The Incidence of Complications in Endoscopic Anterior Thoracic Spinal Reconstructive Surgery. A Prospective Multicenter Study Comparing the First 50 Consecutive Cases. North American Spine Society. October, 1994; Minneapolis, Minnesota.
91. Regan JJ, Ben-Yishay A, Crawford AH: Spinal Thoracoscopy: Technique Evaluation - Anterior Procedures for Adult Spinal Deformity. North American Spine Society. October, 1994; Minneapolis, Minnesota.

92. Novonty SR, Guyer RD, Regan JJ: Laparoscopic Assisted Anterior Lumbar Interbody Fusion. American Academy of Orthopaedic Surgeons. February, 1995; Orlando, Florida.
93. Triano JJ: Chiropractic Interdisciplinary Team Practice. Interscandinavian Chiropractic Convention. April, 1995; Copenhagen, Denmark.
94. Blumenthal SL, Regan JJ, Guyer RD, Novotny S, Ohnmeiss DD: Laparoscopic Assisted Anterior Lumbar Interbody Fusion. International Society for the Study of the Lumbar Spine. June, 1995; Helsinki, Finland.
95. Blumenthal SL: Recent Advances and Results of the Wiltse System: New Techniques for Lumbar Spine Procedures. Combined Meeting of Spine Society of Australia and Neurological Society of Australasia. September, 1995; Broome, Australia.
96. Blumenthal SL: New Techniques for Lumbar Spine Procedures. Combined Meeting of Spine Society of Australia and Neurological Society of Australia. September, 1995; Broome, Australia.
97. Vanharanta H, Aprill CN, Ohnmeiss DD: Vibration as a Diagnostic Tool for Lumbar Disease. North American Spine Society. October, 1995; Washington, D.C.
98. Ohnmeiss DD, Vanharanta H: The Relationship of Pain Drawings to Invasive Tests Assessing Disc Pathology. North American Spine Society. October, 1995; Washington, D.C.
99. Guyer RD, Ohnmeiss DD, Mason SL, Shelokov AP: The Relationship of Cervical Discographic Pain Responses and Radiographic Images. North American Spine Society. October, 1995; Washington, D.C.
100. Mason SL, Shelokov AP, Guyer RD, Ohnmeiss DD: Complications of Cervical Discography: Findings in a Large Series. North American Spine Society. October, 1995; Washington, D.C.
101. Bogdanffy GM, Kime C, Guyer RD: Percutaneous Lumbar Discectomy: A Comparison of Two Nuclear Aspiration Systems *in vitro*. North American Spine Society. October, 1995; Washington, D.C.
102. Regan JJ, Ohnmeiss DD, Thompson T, Griffith SL: Laparoscopic-Assisted Fusion of the Lumbar Spine: A Comparison to Open Procedures. North American Spine Society. October, 1995; Washington, D.C.
103. Regan JJ, McAfee P: Endoscopic Anterior Thoracic Discectomy: A Prospective Evaluation of the First Thirty-Six Cases. North American Spine Society. October, 1995; Washington, D.C.
104. Regan JJ, Zdeblick T, Zucherman J, Heim S, McAfee P: Comparison of Open vs. Laparoscopic Fusion of the Lumbar Spine using BAK Threaded Fusion Cage. North American Spine Society. October, 1995; Washington, D.C.
105. Regan JJ, Aronoff RJ: Laparoscopic Spinal Retroperitoneoscopy: Evaluation of a New Device in the Performance of Lumbar Spinal Procedures. North American Spine Society. October, 1995; Washington, D.C.

106. McAfee PC, Regan JJ, Fedder IL, Mack MJ, Geis WP: Anterior Thoracic Corpectomy for Spinal Decompression Performed Endoscopically. North American Spine Society. October, 1995; Washington, D.C.
107. Triano JJ, Vanharanta H, McGregor M: Manipulation for Discogenic Pain. North American Spine Society. October, 1995; Washington, D.C.
108. Mason SL, Shelokov AP, Guyer RD, Ohnmeiss DD: Complications of Cervical Discography: Findings in a Large Series. American Academy of Orthopaedic Surgeons. February, 1996; Atlanta, Georgia.
109. Gronblad M, Virri J, Ronkko S, Kiviranta I, Vanharanta H, Seitsalo S, Rashbaum RF, Guyer RD: A Controlled Biochemical and Immunohistochemical Study of Human Synovial-Type (Group 11) Phospholipase A2 and Inflammatory Cells in Macroscopically Normal, Degenerated, and Herniated Human Lumbar Disc Tissue. (Volvo Award Winning Paper) International Society for the Study of the Lumbar Spine. June, 1996; Burlington, Vermont.
110. Vanharanta H, Ohnmeiss DD, Aprill C: Can Vibratory Pain Provocation Improve the Specificity of MRI in the Diagnosis of Symptomatic Lumbar Disc Rupture? International Society for the Study of the Lumbar Spine. June, 1996; Burlington, Vermont.
111. Ohnmeiss DD, Vanharanta H: Degree of Internal Disc Disruption Associated with Lower Extremity Pain. International Society for the Study of the Lumbar Spine. June, 1996; Burlington, Vermont.
112. Block AR, Ware D, Ohnmeiss DD, Guyer RD, Pladjewitz C: Initial Results from a Psycho-Social Screening Package for Spine Surgery Candidates. International Society for the Study of the Lumbar Spine. June, 1996; Burlington, Vermont.
113. Triano JJ, McGregor M, Doyne M, Dombrowsky N, Grant R: Criterion-related Validity of Manual Diagnostic Maneuvers. North American Spine Society. October, 1996; Vancouver, Canada.
114. Jarolem KL, Regan JJ: Thoracoscopic Approach to the Upper Thoracic Spine: Technique and Preliminary Clinical Experience. North American Spine Society. October, 1996; Vancouver, Canada.
115. Ahrens JE, Carver JL, Jarolem KL, Regan JJ: Interbody Fusion Cages in the Thoracic Spine Increases Initial Stability. North American Spine Society. October, 1996; Vancouver, Canada.
116. Triano J, Schultz AB: Assessment of Biomechanical Risk from Lumbosacral Manipulation. North American Spine Society. October, 1996; Vancouver, Canada.
117. Ohnmeiss DD, Vanharanta H: Degree of Disc Disruption Associated with Lower Extremity Pain. North American Spine Society. October, 1996; Vancouver, Canada.
118. Triano JJ: Manipulation Loads vs. Work-related Tasks. American Academy of Physical Medicine and Rehabilitation. October, 1996; Chicago, Illinois.
119. Blumenthal SL: Endoscopic Surgery Interbody Fusion. Singapore Orthopaedic Association. November, 1996; Singapore.

120. Ohnmeiss DD, Vanharanta H: Degree of Disc Disruption Associated with Lower Extremity Pain. American Academy of Orthopaedic Surgeons. February, 1997; San Francisco, California.
121. Guyer RD, Ohnmeiss DD, Vanharanta H, Mason SL: Are Results of Lumbar and Cervical Discography Similar? Spine Across the Sea. March, 1997; Kamuela, Hawaii.
122. Triano JJ: An Objective Model For Discriminating Neck Pain. Spine Across the Sea. March, 1997; Kamuela, Hawaii.
123. Triano JJ: Chiropractic in the Interdisciplinary Team Practice. World Chiropractic Congress. June, 1997; Tokyo, Japan.
124. Regan JJ, Yuan HA: Open Versus Laparoscopic Fusion of Lumbar Spine Using a BAK[®] Fusion Cage. North American Spine Society. October, 1997; New York, New York.
125. Ahrens JA, Shelokov AP, Carver JL: Normal Joint Mobility is Maintained with an Artificial Disc Prosthesis. North American Spine Society. October, 1997; New York, New York.
126. Dickman CA, Rosenthal D, Regan JJ: Reoperation for Herniated Thoracic Discs. North American Spine Society. October, 1997; New York, New York.
127. Triano JJ: Physiology of Aging and its Effect on Manipulation Therapy. (Symposium on Aging and the Spine). North American Spine Society. October, 1997; New York, New York.
128. Regan JJ, Yuan HA: Open Versus Laparoscopic Fusion of Lumbar Spine Using a Fusion Cage. American Academy of Orthopaedic Surgeons. March, 1998; New Orleans, Louisiana.
129. Regan JJ, Yuan HA: Open Versus Laparoscopic Fusion of Lumbar Spine Using a Fusion Cage. Federation of Spine Associations. March, 1998; New Orleans, Louisiana.
130. Guyer RD: Reimbursement: Marketing vs. Survival. American Pain Society/North American Spine Society. April, 1998; Charleston, South Carolina.
131. Triano JJ: Symptom Amplification in Neck Pain Patients: An Objective Test. American Pain Society/North American Spine Society. April, 1998; Charleston, South Carolina.
132. Massoud B, Ohnmeiss DD, Rinn C, Guyer RD, Hochschuler SH, Rashbaum RF, Blumenthal SL, Zigler JE, Regan JJ, Fulp T: Results of Hardware Removal in the Lumbar Spine and the Role of Diagnostic Hardware Injection. Dialogue and Controversy in Spinal Surgery. April, 1998; Stove Mountain, Georgia.
133. Hochschuler SH, Hyde J, Ohnmeiss DD: Posterior Lumbar Decompression and Fusion Using Local Bone Graft and Spinal Fixation. Dialogue and Controversy in Spinal Surgery. April, 1998; Stove Mountain, Georgia.
134. Hochschuler SH, Hyde J, Ohnmeiss DD: Posterior Lumbar Decompression and Fusion Using Local Bone Graft and Spinal Fixation. International Meeting on Advanced Spine Techniques (IMAST). May, 1998; Sorrento, Italy.

135. Shelokov AP, Ahrens JA, Zeegars W, Büttner-Janzen K, Lemaire JP: Average Six Year Follow-up of Patients with Artificial Disc Prostheses. International Society for the Study of the Lumbar Spine. June, 1998; Brussels, Belgium.
136. Ohnmeiss DD: Repeatability of Pain Drawings in a Low Back Pain Population. North American Spine Society. October, 1998; San Francisco, California.
137. Regan JJ, Ohnmeiss DD, Risk D: Prospective Evaluation of Return to Work in a Lumbar Fusion Population. North American Spine Society. October, 1998; San Francisco, California.
138. Regan JJ, Ohnmeiss DD, Risk D: Laparoscopic Anterior Lumbar Interbody Fusion: Analysis of Learning Curve and Comparison to Open Cage Procedures. North American Spine Society. October, 1998; San Francisco, California.
139. Regan JJ, Aronoff RJ: Laparoscopic Approach to L4-5 for Interbody Fusion Using BAK Cages: Experience in the First 36 Cases. North American Spine Society. October, 1998; San Francisco, California.
140. McAfee PC, Regan JJ, Geis P, Fedder I: Minimally Invasive Anterior Retroperitoneal Approach to the Lumbar Spine. North American Spine Society. October, 1998; San Francisco, California.
141. Ahrens JE, Risk DE: Correlation of Fusion Cage Subsidence and Pre-operative Bone Mineral Density. North American Spine Society. October, 1998; San Francisco, California.
142. Blumenthal SL: Cirugia de Minima Invasion. Sociedad Argentina De Patologia De La Columna Vertebral. October, 1998; Mar del Plata, Argentina.
143. Regan JJ: Minimally Invasive Spine Surgery (Symposium on Lumbar Radiculopathy). Meeting of the Americas. May, 1999; Miami Beach, Florida.
144. Simpson NS, Blumenthal SL, Guyer RD, Ohnmeiss DD, Risk DE: Anterior Lumbar Interbody Fusion with Threaded Fusion Cages: Technique, Feasibility, and Safety. American Spinal Injury Association. April, 1999; Atlanta, Georgia.
145. Ohnmeiss DD, Vanharanta H, Ekholm J: The Relationship Between Pain Location and Intervertebral Disc Pathology at specific Lumbar Levels. International Society for the Study of the Lumbar Spine. June, 1999; Kona, Hawaii.
146. Sengupta D, Ohnmeiss DD, Mulholland R, Webb J, Guyer RD, Zigler JE, Hochschuler SH: Fulcrum Assisted Soft Stabilization (FASS) in the Treatment of Activity Related Low Back Pain – A New Concept. International Society for the Study of the Lumbar Spine. June, 1999; Kona, Hawaii.
147. Guyer RD, Goodwin C, Ohnmeiss DD, Guthner D: Capacitively Coupled stimulation for Lumbar Spine Fusion: Clinical Improvement Analysis from a Randomized Double-Blind Trial. International Society for the Study of the Lumbar Spine. June, 1999; Kona, Hawaii.
148. Block AR, Guyer RD, Rashbaum RF, Hochschuler SH, Ohnmeiss DD: Use of Presurgical Psychosocial Screening to Predict Spine Surgery Outcome. North American Spine Society. October, 1999; Chicago, Illinois.

149. Hochschuler SH: Telemedicine Applications in Spine. (Symposium: Information Technology: Applications in Spine). North American Spine Society. October, 1999; Chicago, Illinois.
150. Hochschuler SH: The Internet and Medicine. (Symposium: Information Technology: Applications in Spine). North American Spine Society. October, 1999; Chicago, Illinois.
151. Blumenthal SL: Surgical Decision-Making: Mini Anterior vs. Laparoscopic vs. Posterior Approaches. (Symposium: Fusion Cages: Are They Stand Alone Devices?) North American Spine Society. October 1999; Chicago, Illinois.
152. Blumenthal SL: Clinical Experience with Fusion Cages in a Large Population with Discogenic Pain. (Symposium: Lumbar Discogenic Disease). American Academy of Orthopaedic Surgeons. March, 2000; Orlando, Florida.
153. Guyer RD: Lumbar Discography: Indications and Efficacy. Symposium on Lumbar Discogenic Disease - American Academy of Orthopaedic Surgeons. March, 2000; Orlando, Florida.
154. Rashbaum RF, Ohnmeiss DD: Spinal Cord Stimulation for Predominant Complaints of Chronic Low Back Pain. Spine Across the Sea. July, 2000; Kona, Hawaii.
155. Sengupta DK, Ohnmeiss DD, Webb JK, Mulholland RC: Effect of Fulcrum Assisted Soft Stabilization vs. Rigid Fixation in Disc Unloading and Flexibility of the Stabilized and the Adjacent Segment in the Lumbar Spine – A Cadaver Study. Spine Across the Sea. July, 2000; Kona, Hawaii.
156. Sengupta DK, Ohnmeiss DD, Dorgan JC, Findlay GF: Can Hindbrain Decompression for Syringomyelia Lead to Regression of Scoliosis? Spine Across the Sea. July, 2000; Kona, Hawaii.
157. Guyer RD: Lumbar Interbody Fusion Cages in the Management of Chronic Low Back Pain. JPSSSTS Conference. September, 2000; Tokyo, Japan.
158. Regan JJ, Ohnmeiss DD, Hochschuler SH, Blumenthal SL, Guyer RD: Comparison of Laparoscopic to Mini-Open Fusion at the L4-5 Level. North American Spine Society. October, 2000; New Orleans, Louisiana.
159. Block AR, Ohnmeiss DD: MMPI Profiles Predict the Outcome of Spinal Surgery. North American Spine Society. October, 2000; New Orleans, Louisiana.
160. Wacholtz E, Block AR, Ohnmeiss DD: Responsiveness to Spine Surgery: Effects of Spousal Solicitousness on Short-Term Recovery. North American Spine Society. October, 2000; New Orleans, Louisiana.
161. Anand N, Fischio H, Ahrens JE, Regan JJ: VATS for Thoracic Disc Herniation - Classification and Long-term Outcome Study. North American Spine Society. October, 2000; New Orleans, Louisiana.
162. Corbin T, Guyer RD, Ohnmeiss DD: Outcomes of Spinal Fusion Supplemented with Capacitively Coupled Electrical Stimulation. North American Spine Society. October, 2000; New Orleans, Louisiana.

163. Blumenthal SL, McAfee PC, Hochschuler SH, Guyer RD, Fedder I, Ohnmeiss DD: Prospective Evaluation of the SB Charité III Disc Prosthesis. Spine Society of Australia. April, 2001; Australia.
164. Burton DC, Ohnmeiss DD, Zigler JE, Blumenthal SL, Rashbaum RF, Guyer RD, Regan JJ: Anterior Cervical Discectomy and Fusion with Allograft Bone and Plate Fixation. American Spinal Injury Association. May, 2001; Long Beach, California.
165. Hisey MS, Bash J, Ohnmeiss DD, Zigler JE, Guyer RD, Blumenthal SL, Regan JJ, Hochschuler SH, Rashbaum RF: Is There an Association Between Using ADCON-L™ and the Incidence of Recurrent Disc Herniation? American Spinal Injury Association. May, 2001; Long Beach, California.
166. Hochschuler SH: Early Experience with the Link SB Charité Artificial Disc in the US. Spinal Arthroplasty Society. May, 2001; Munich, Germany.
167. Hochschuler SH, Ohnmeiss DD: Artificial Discs: A Comprehensive Review and Clinical Experience. (Winner of the Lyman Smith Award for Best Paper). International Intradiscal Therapy Society. May, 2001; Phoenix, Arizona.
168. Hochschuler SH, Ohnmeiss DD, Hyde JA: Posterior Lumbar Fusion Using Local Bone Graft and Pedicle Screw Fixation. International Society for the Study of the Lumbar Spine. June, 2001; Edinburgh, Scotland.
169. Blumenthal SL, Guyer RD, Hochschuler SH, Ohnmeiss DD: Preliminary Results of a Prospective Study Using the SB Charité III Disc Prosthesis. Spine Society of Australia. April, 2002; Melbourne, Australia.
170. Sachs BL: The Status of Technology Developments for Nuclear Replacement/Reconstruction. Spinal Arthroplasty Society (best paper Award). May, 2002; Montpellier, France.
171. Zigler JE: ProDisc Study in the US. Spinal Arthroplasty Society. May, 2002; Montpellier, France.
172. Hochschuler SH: History of Artificial Disc Development. Spinal Arthroplasty Society. April, 2002; Montpellier, France.
173. Ohnmeiss DD, Guyer RD, Hochschuler SH, Rashbaum RF, Blumenthal SL, Zigler JE: Influence of Scan Projection on the Diagnosis of Osteoporosis in a Low Back Pain Population. Meeting of the Americas. April, 2002; New York, New York.
174. Henry S, Ohnmeiss DD, Guyer RD, Zigler JE, Chang Y, Rashbaum RF, Blumenthal SL: Outcome of Anterior Cervical Fusion For Discographically Proven Pain. Meeting of the Americas. April, 2002; New York, New York.
175. Sachs BL, McVoy J, Miller B, Ohnmeiss DD: A Prospective, Randomized Comparison of Laparoscopic to Open Anterior Lumbar Interbody Fusion With Cages. Meeting of the Americas. April, 2002; New York, New York.
176. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: US Experience with the SB Charité Artificial Disc. Spinal Arthroplasty Society. May, 2002; Montpellier, France.

177. Triano JJ, Rogers CM: Obtaining Predictable Lumbopelvic Loads during Spinal Manipulation. IV World Congress on Biomechanics. August, 2002; Calgary, Alberta, Canada.
178. Triano JJ: Neck Loads during Spinal Manipulation. IV World Congress on Biomechanics. August, 2002; Calgary, Alberta, Canada.
179. Zigler JE: Update on the US FDA Trial with ProDisc. EuroSpine. September, 2002; Nantes, France.
180. Block AR, Ohnmeiss DD: Cluster Analysis of MMPI Scores and Their Relationship to Spine Surgery Outcome. North American Spine Society. October, 2002; Montreal, Canada.
181. Zigler JE: Spine Surgery and Chiropractic (Symposium). North American Spine Society. October, 2002; Montreal, Quebec, Canada.
182. Triano JJ: Spinal Manipulation in Spine Care: Who? Why? When? (Symposium). North American Spine Society. October, 2002; Montreal, Canada.
183. Guyer RD: Assessing Axial Low Back Pain, Where Are We? (Symposium: Stabilizing Low Back Pain). North American Spine Society. November, 2002; Montreal, Canada.
184. Sachs BL, McVoy J, Miller B, Ohnmeiss DD: A Prospective, Randomized Comparison of Laparoscopic to Open Anterior Lumbar Interbody Fusion With Cages. American Academy of Orthopaedic Surgeons. February, 2003; New Orleans, Louisiana.
185. Zigler JE, Boden S, Ohnmeiss DD: Evaluation of Iliac Crest Reconstruction in Patients Undergoing Spinal Fusion Using Iliac Crest Autograft. American Spinal Injury Association. April, 2003; Miami, Florida.
186. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: Prospective outcome evaluation of a Total Disc Replacement. Spine Society of Australia. April, 2003; Canberra, Australia.
187. Zigler JE: ProDisc Semi-Constrained Lumbar Disc Replacement. American Academy of Neurosurgeons. April, 2003; San Diego, California.
188. Triano JJ: Cervical Adjustment: What Forces Reach the Facets and Discs and What Are Their Effects? World Federation of Chiropractic. May, 2003; Orlando, Florida.
189. Triano JJ: Neck Loads during Spinal Manipulation. World Federation of Chiropractic. May, 2003; Orlando, Florida.
190. Triano JJ: SMT Performance: Objective Parameters vs. Instructor Ratings. World Federation of Chiropractic. May, 2003; Orlando, Florida.
191. Loguidice V, Haldeman J, Triano J: Ambulatory Lumbar Decompression– Orthotrac™ Pneumatic Vest. World Federation of Chiropractic. May, 2003; Orlando, Florida.
192. Guyer RD: The Role of ALIF. Spinal Arthroplasty Society, May, 2003; Phoenix, Arizona.
193. Guyer RD: Results of SB Charité: Historical. Spine Arthroplasty Society, May, 2003; Phoenix, Arizona.

194. Guyer RD: Clinical and Radiologic Diagnostics for Spinal Motion Abnormalities. Spine Arthroplasty Society, May, 2003; Phoenix, Arizona.
195. Guyer RD: Fusion vs. Motion: Pro Fusion. (Debate) Spine Arthroplasty Society, May, 2003; Phoenix, Arizona.
196. Hochschuler SH: The Future of Spine. Spine Arthroplasty Society. May, 2003; Phoenix, Arizona.
197. Blumenthal SL: Results of Charité: FDA – Preliminary. Spine Arthroplasty Society, May, 2003; Phoenix, Arizona.
198. Sachs BL: Results of Other Nuclear Disc Replacements. Spine Arthroplasty Society. May, 2003; Phoenix, Arizona.
199. Sachs BL: Clinical Indications for Dynamic Stabilization. Spine Arthroplasty Society. May, 2003; Phoenix, Arizona.
200. Zigler JE: Vertical Instability Syndrome. Spine Arthroplasty Society. May, 2003; Phoenix, Arizona.
201. Zigler JE: Results of ProDisc: FDA – Preliminary. Spine Arthroplasty Society. May, 2003; Phoenix, Arizona.
202. Zigler JE: Lumbar Disc Replacement: Symposium. American Orthopaedic Association. June, 2003; Charleston, South Carolina.
203. Sachs BL, Hisey MS, Zigler JE, Burd T, Ohnmeiss DD: Clinical Comparison of Percutaneous (Minimally Invasive) Placement of Pedicle Screws Versus Standard Open Pedicle Screw Placement. International Meeting on Advanced Spinal Techniques (IMAST). July, 2003; Rome, Italy.
204. Guyer RD, Davis R, Songer M, Frederickson B: The Efficacy of a New Modular Cage for Anterior Lumbar Interbody Fusion. International Meeting on Advanced Spinal Techniques (IMAST). July, 2003; Rome, Italy.
205. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: Prospective Outcome Evaluation of a Total Disc Replacement. Spine Across the Sea. July, 2003; Maui, Hawaii.
206. Zigler JE, Burd T, Vialle E, Sachs BL, Rashbaum RF, Ohnmeiss DD: Lumbar Spine Arthroplasty: Early Results Using the ProDisc II: A Prospective Randomized Trial of Arthroplasty Versus Fusion. Spine Across the Sea. July, 2003; Maui, Hawaii.
207. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: Preliminary Experience with the SB Charité III Disc Prosthesis. World Spine. August 2003; Chicago, Illinois.
208. Sachs BL, Miller B, Tysen M, Ledet E, Vialle E, Ohnmeiss DD. A Bone Growth Dose-Response Study of OP-1 Putty in Interbody Fusion. World Spine. August 2003; Chicago, Illinois.
209. Sachs BL, Connolly R, Vialle E, Ohnmeiss DD: In Vivo Evaluation of Interbody Fusion Using RhOP-1 in a Baboon Model. World Spine. August 2003; Chicago, Illinois.

210. Guyer RD, Davis R, Songer M, Frederickson B: The Efficacy of a New Modular Cage for Anterior Lumbar Interbody Fusion. *World Spine*. August 2003; Chicago, Illinois.
211. Zigler JE: Interim Results of ProDisc Study in the US. *EuroSpine*. October. 2003, Prague, Czechoslovakia.
212. Zigler JE: ProDisc Prospective Randomized Multicenter Trial. North American Spine Society Pre-course. October, 2003; San Diego, California.
213. Triano J, Rogers C, Diederich J, Hochschuler S: Discopathy with Leg Pain: A Randomized Controlled Trial of Orthotrac Vs. EZ Brace. North American Spine Society. October, 2003; San Diego, California.
214. Guyer RD, Davis R, Songer M, Frederickson B: The Efficacy of a New Modular Cage for Anterior Lumbar Interbody Fusion. North American Spine Society. October, 2003; San Diego, California.
215. Guyer RD, Hochschuler SH, Ohnmeiss DD, Blumenthal SL: Prospective Outcome Evaluation of Total Disc Replacement: A 12- to 24-Month Follow-Up Study. North American Spine Society. October, 2003; San Diego, California.
216. Hochschuler SH: Models for Private Practice - The Texas Back Institute (Pre-course: How to Build a Successful Center of Excellence). North American Spine Society. October, 2003; San Diego, California.
217. Triano JJ: Treatment (Symposium: Whiplash Part II). North American Spine Society. October, 2003; San Diego, California.
218. Guyer RD: SB Charité III Prospective Randomized U.S. Trial (Pre-course: Artificial Discs) North American Spine Society. October, 2003; San Diego, California.
219. Ohnmeiss DD: Basics of Preparing Power Point Presentations (Pre-course: Power Point) North American Spine Society. October, 2003; San Diego, California.
220. Triano JJ: My Aching Sacroiliac (Symposium). North American Spine Society. October, 2003; San Diego, California.
221. Rashbaum RF: Lumbar Fusion: Should We? If so, on Whom & How? American Academy of Disability Evaluating Physicians. November, 2003; New Orleans, Louisiana.
222. Guyer RD, Hochschuler SH, Blumenthal SL, Ohnmeiss DD: Prospective Outcome Evaluation of Total Disc Replacement. American Academy of Orthopaedic Surgeons. March, 2004; San Francisco, California.
223. Zigler JE, Sachs BL, Rashbaum RF, Ohnmeiss DD: Results of a Prospective Randomized Trial of Total Disc Replacement. American Academy of Orthopaedic Surgeons. March, 2004; San Francisco, California.
224. Blumenthal SL. Randomized Control Trial of the Charite Artificial Disc vs. Fusion for Single Level Lumbar Degenerative Disc Disease: A Two-Year Follow-up Study. North American Spine Society Spring Break. April, 2004; Boca Raton, Florida.

225. Zigler JE: Total Disc Replacement Using ProDisc: 12 to 24-month Follow-up Results of a Prospective Randomized Comparison to Fusion. North American Spine Society Spring Break. April, 2004; Boca Raton, Florida.
226. McAfee PC, Cunningham BW, Holtsapple G, Bussard K, Guyer R, Blumenthal S, Dmitriev A, Maxwell JH, Isaza J, Regan J: A Prospective Randomized U.S. FDA Study of the Charité Disc Replacement – A Radiographic Outcome Analysis of 276 Consecutive Patients. Spine Society of Australia. April, 2004; Coolumb, Australia.
227. Blumenthal S, McAfee P, Guyer R, Hochschuler S, Garcia R, Regan J, Ohnmeiss D: Randomized Control Trial of the Charité Artificial Disc vs. Fusion for Single Level Lumbar Degenerative Disc Disease: A Two-Year Follow-up Study. Spine Arthroplasty Society. May, 2004; Vienna, Austria.
228. Zigler JE, Sachs BL, Rashbaum RF, Ohnmeiss DD: Total Disc Replacement Using ProDisc: 12 to 24-month Follow-up Results of a Prospective, Randomized Comparison to Fusion. Spine Arthroplasty Society. May, 2004; Vienna, Austria.
229. Blumenthal SL, Sohn JM, Guyer RD, Hochschuler SH, Ohnmeiss DD: Range of Motion Analysis of the Lumbar Spine after Total Disc Replacement: A Prospective Two-Year Follow-Up Study. Spine Arthroplasty Society. May, 2004; Vienna, Austria.
230. Hochschuler SH, Whitaker C, Zigler JE, Guyer RD, Sachs BL, Blumenthal SL, Rashbaum RF, Ohnmeiss DD: Comparison of Return to Work Following Total Disc Arthroplasty vs. Fusion: A Prospective, Randomized Study. Spine Arthroplasty Society. May, 2004; Vienna, Austria.
231. Sachs BL, Gottlieb J, Guyer RD, Zigler JE, Rashbaum RF, Hochschuler SH, Blumenthal SL, Whitaker C, Ohnmeiss DD: Comparison of Complications Associated with Total Disc Replacement versus Lumbar Fusion at Two-year Follow-Up. Spine Arthroplasty Society. May, 2004; Vienna, Austria.
232. Guyer RD: Static Stabilization, Arthrodesis. What are the results as they compare to Arthroplasty? (NASS symposium) Spine Arthroplasty Society. May, 2004; Vienna, Austria.
233. Guyer RD: Range of Motion Analysis of the Lumbar Spine after Total Disc Replacement: A Prospective Two-Year Follow-Up Study. Spine Arthroplasty Society. May, 2004; Vienna, Austria.
234. Guyer RD: Role of Lumbar Discography in the Pre-Op Evaluation Prior to Motion Sparing Surgery. North American Spine Society symposium at the Spinal Arthroplasty Society. May, 2004; Vienna, Austria.
235. Zigler JE: Lumbar Disc Replacement: Interim Data. American Academy of Neurological Surgeons. May, 2004; Orlando, Florida.
236. Zigler J, Burd T, Vialle E, Rashbaum R, Sachs B, Ohnmeiss D: Lumbar Spine Arthroplasty - Early Results of a Prospective Randomized Trial of Arthroplasty vs. Fusion. International Society for the Study of the Lumbar Spine. June, 2004; Porto, Portugal.

237. McAfee PC, Cunningham BW, Holtsapple G, Bussard K, Guyer R, Blumenthal S, Dmitriev A, Maxwell JH, Isaza J, Regan J: A Prospective Randomized U.S. FDA Study of the Charité Disc Replacement – A Radiographic Outcome Analysis of 276 Consecutive Patients. International Society for the Study of the Lumbar Spine. June, 2004; Porto, Portugal.
238. Geisler FH, Blumenthal SL, McAfee PC, Guyer RD, Hochschuler SH, Garcia R, Regan JJ: Prospective, Randomized, Multicenter Trial of Artificial Disc vs. Fusion for Single Level Lumbar Degenerative Disc Disease: A 2-Year Follow-up IDE Study. Congress of Neurological Surgeons. October, 2004; San Francisco, California.
239. Zigler JE, Sachs BL, Rashbaum RF, Ohnmeiss DD: Results of a Prospective, Randomized Study Comparing Total Disc Replacement to Fusion. International Meeting on Advanced Spinal Techniques (IMAST). July, 2004; Bermuda.
240. Blumenthal S, McAfee P, Guyer R, Hochschuler S, Garcia R, Regan J, Ohnmeiss D: Prospective, Randomized, Multicenter Comparison of Artificial Disc vs. Fusion for Single Level Lumbar Degenerative Disc Disease: A Two-Year Follow-up Study. North American Spine Society. October, 2004; Chicago, Illinois.
241. Ohnmeiss DD, Guyer RD: 24-month Follow-up for Reporting Results of Spinal Implant Studies: Is This Guideline Supported by the Literature? North American Spine Society. October, 2004; Chicago, Illinois.
242. Zigler JE, Burd T, Vialle E, Sachs BL, Rashbaum RF, Ohnmeiss DD: Total Disc Replacement Using ProDisc: 12 to 24-month Follow-up Results of a Prospective, Randomized Comparison to Fusion. North American Spine Society. October, 2004; Chicago, Illinois.
243. McAfee P, Cunningham BW, Holtsapple G, Bussard K, Guyer R, Blumenthal S, Dmitriev A, Maxwell J, Isaza J, Regan J: A Prospective Randomized FDA Study of the Charite Disc Replacement – A Radiographic Outcome Analysis of 276 Consecutive Patients. North American Spine Society. October, 2004; Chicago, Illinois.
244. Zigler JE: Nucleoplasty and Disc Replacement; Hype or Hope? North American Spine Society. October 2004; Chicago, Illinois.
245. McAfee PC, Cunningham BW, Blumenthal SL, Guyer RD, Regan JJ: A Prospective Randomized FDA Study of the Charité Disc Replacement. February, 2005; Washington, D.C.
246. Blumenthal SL: X-STOP IPD Update. North American Spine Society Spring Break. April, 2005; Bal Harbour, Florida.
247. Blumenthal SL: Rationale for Lumbar Motion Preservation. North American Spine Society Spring Break. April, 2005; Bal Harbour, Florida.
248. Guyer RD: Review of Lumbar Arthroplasty. North American Spine Society Spring Break. April, 2005; Bal Harbour, Florida.
249. Guyer RD: Total Posterior Element Replacement. North American Spine Society Spring Break. April, 2005; Bal Harbour, Florida.

250. Zigler JE: Lumbar Arthroplasty with ProDisc-L. American Academy of Neurological Surgeons. April, 2005; New Orleans, Louisiana.
251. Zigler JE: Lumbar Arthroplasty vs. Fusion. American Spinal Injury Association. May, 2005; Dallas, Texas.
252. Zigler, JE, Delamarter RB, Ohnmeiss DD, Kanim L, Pradhan BB: Lumbar Total Disc Replacement: A 2 to 3 Year Report From 2 Centers in the United States Clinical Trial for the ProDisc-II Prosthesis. Winner of the Best Clinical Paper Award. Spine Arthroplasty Society. May, 2005; New York, New York.
253. Dickerman R, Sachs BL, Zigler JE, Rashbaum RF, Smith EL, Ohnmeiss DD: Stretch Neuropraxia After Anterior Lumbar Interbody Fusion or Artificial Disc Placement: Incidence and Prevention. Spine Arthroplasty Society. May, 2005; New York, New York.
254. Zigler JE, Sachs BL, Rashbaum RF, Ohnmeiss DD: Two-level Total Disc Replacement with ProDisc: Results and Comparison to One-level Cases. Spine Arthroplasty Society. May, 2005; New York, New York.
255. Holt R, Majd M, Isaza J, Blumenthal S, McAfee P, Guyer R, Hochschuler S, Geisler F, Garcia R, Regan J: Complications of Lumbar Artificial Disc Replacement vs. Fusion: Results from the Randomized, Multicenter FDA IDE Study of the CHARITÉ Artificial Disc. Winner of the Best Paper Award. Spine Arthroplasty Society. May, 2005; New York, New York.
256. Regan JJ, McAfee PC, Guyer RD, Blumenthal SL, Geisler FH, Garcia R Jr., Maxwell JH: Evaluation of the Learning Curve Associated with Artificial Disc Replacement: Analysis from the Prospective, Randomized, Multicenter FDA IDE Study. Spine Arthroplasty Society. May, 2005; New York, New York.
257. Elders GJ, Blumenthal SL, Guyer RD, Hochschuler SH, Rashbaum RF, Sachs BL, Zigler JE, Ohnmeiss DD: Effect of Facet Joint Arthrosis on Outcome after Artificial Disc Replacement. Spine Arthroplasty Society. May, 2005; New York, New York.
258. Musante DB, Zigler J, Sachs B, Rashbaum R, Elders G, Ohnmeiss D: Effect of Disc Height Restoration and Subsidence on Outcome after Artificial Disc Replacement: Minimum 2-year Follow-Up. Spine Arthroplasty Society. May, 2005; New York, New York.
259. Guyer RD, Tromanhauser S, Toselli R: An Economic Analysis of Lumbar Total Disc Replacement vs. Fusion. Spine Arthroplasty Society. May, 2005; New York, New York.
260. Holt R, Majd M, Isaza J, Blumenthal S, McAfee P, Guyer R, Hochschuler S, Geisler F, Garcia R, Regan J. Complications of Lumbar Artificial Disc Replacement vs. Fusion: Results From The Randomized, Multicenter FDA IDE Study of the Charite™ Artificial Disc. International Society for the Study of the Lumbar Spine. May, 2005; New York, New York.
261. Guyer R, Sohn J, Blumenthal S, Hochschuler S, Ohnmeiss D: Range of Motion Analysis of the Lumbar Spine after Total Disc Replacement: A Prospective Two-Year Follow-Up Study. International Society for the Study of the Lumbar Spine. May, 2005; New York, New York.

262. Whitaker C, Hochschuler S, Ohnmeiss D, Zigler J, Guyer R, Sachs B, Blumenthal S, Rashbaum R: Return to Work Following Total Disc Replacement vs. Fusion: A Prospective, Randomized, Comparison Study. International Society for the Study of the Lumbar Spine. May, 2005; New York, New York.
263. Rashbaum RF: The Immediate Future of Chymopapain in the US. International Intradiscal Therapy Society. May, 2005; San Diego, California.
264. Zigler, JE, Delamarter RB, Ohnmeiss DD, Kanim L, HW Bae HW: Lumbar Total Disc Replacement: A 2 To 3 Year Report From 2 Centers In The United States Clinical Trial For The ProDisc-II Prosthesis. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Alberta, Canada.
265. Regan JJ, McAfee PC, Guyer RD, Blumenthal SL, Geisler FH, Garcia R Jr., Maxwell JH: Evaluation of the Learning Curve Associated with Artificial Disc Replacement: Analysis from the Prospective, Randomized, Multicenter FDA IDE Study. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Alberta, Canada.
266. McAfee, PC, Geisler FH, Saiddy S, Regan JJ, Guyer RD, Blumenthal SL, Fedder I, Tortolani J, Cunningham B: Revisability of the CHARITÉ Artificial Disc Replacement - Analysis of 347 Patients Enrolled in the US IDE Study of the CHARITÉ Artificial Disc. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Alberta, Canada.
267. Holt RT, Majd ME, Isaza JE, Blumenthal SL, McAfee PC, Guyer RD, Hochschuler SH: Complications of Lumbar Artificial Disc Replacement vs. Fusion: Results from The Randomized, Multicenter FDA IDE Study of the Charite Artificial Disc. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Alberta, Canada.
268. Guyer RD, Tromanhauser SG, Regan JJ, Tosell R: An Economic Analysis of Lumbar Total Disc Replacement vs. Fusion. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Alberta, Canada.
269. Hochschuler SH: The Future of Motion Preservation. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Canada.
270. Hochschuler SH: Long-term Retrospective Study of the First-generation Wallis Implant. (Instructional Course Lecture) International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Canada.
271. Hochschuler SH: Archus Facet Technology. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Canada.
272. Guyer RD, Blumenthal SL, Hochschuler SH, McAfee PC, Regan JJ, Ohnmeiss DD: Prospective Randomized Comparison of Total Disc Replacement to Fusion: A 24 Month Follow-Up FDA Regulated Study. World Spine. August, 2005; Rio de Janeiro, Brazil.
273. Zigler JE, Sachs BL, Rashbaum RF, Ohnmeiss DD: Total Disc Replacement Using ProDisc: 24 Month Follow-Up Results of a Prospective Randomized Comparison to Fusion. World Spine. August, 2005; Rio de Janeiro, Brazil.

274. Zigler JE, Sachs BL, Rashbaum RF, Ohnmeiss DD: Two Level Total Disc Replacement with ProDisc: Results and Comparison to One Level Cases. *World Spine*. August, 2005; Rio de Janeiro, Brazil.
275. Zigler JE, Sachs BL, Rashbaum RF, Ohnmeiss DD: Total Disc Replacement Using ProDisc: 24 Month Follow-up Results of a Prospective Randomized Comparison to Fusion. *EuroSpine*. September, 2005; Barcelona, Spain.
276. Blumenthal SL, McAfee PC, Guyer RD, Hochschuler SH, Garcia R Jr., Regan JJ, Ohnmeiss DD: Prospective Randomized Comparison of Total Disc Replacement to Fusion A 24-month Follow-Up FDA Regulated Study Combined with 720. *EuroSpine*. September, 2005; Barcelona, Spain.
277. Holt RT, Blumenthal SL, McAfee PC, Majd ME, Guyer RD, Isaza JE, Hochschuler SH, Geisler FH, Garcia R Jr., Regan JJ, Ohnmeiss DD: Complications and Clinical Outcome of Lumbar Artificial Disc Replacement vs. Fusion: Results from the Randomized, Multicenter FDA IDE Study of the CHARITÉ Artificial Disc. *EuroSpine*. September, 2005; Barcelona, Spain.
278. Ohnmeiss DD: Facet Joint Replacement (symposium on Emerging Technology). North American Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.
279. Guyer RD: Flexible Posterior Rods (symposium on Emerging Technology). North American Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.
280. Sachs BL: Research. Developing a Successful Spine Practice (Pre-course). North American Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.
281. Zigler JE, Sachs BL, Rashbaum RF, Ohnmeiss DD: Two Level Total Disc Replacement with ProDisc: Results and Comparison to One Level Cases. North America Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.
282. Dickerman R, Sachs BL, Zigler JE, Rashbaum RF, Smith EL, Ohnmeiss DD: Stretch Neuropraxia After Anterior Lumbar Interbody Fusion or Artificial Disc Placement. North America Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.
283. Triano J, Rogers C, Diedrich J, Gonzalez C, Hochschuler S: An RTC of Orthotrac Vest Unloading vs. EZ Brace – One-year Outcomes. North America Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.
284. McAfee P, Geisler F, Regan J, Blumenthal SL, Guyer R, Fedder I, Tortolani J, Cunningham B, Saiedy S: Revisability of the Charite Artificial Disc Replacement: Analysis of 347 Patients Enrolled in the US IDE Study of the Charite Artificial Disc. North America Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.
285. Holt RT, Majd M, Isaza J, Blumenthal S, McAfee P, Guyer R, Hochschuler S, Geisler F, Garcia R, Regan J: Complications of Lumbar Artificial Disc Replacement vs. Fusion: Results from The Randomized, Multicenter FDA IDE Study of the Charite Artificial Disc. North America Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.

286. Geisler FH, Holt RT, Majd ME, Isaza J, Blumenthal SL, McAfee PC, Guyer RD, Hochschuler SH, Garcia R, Regan JJ: Complications of Lumbar Artificial Disc Replacement versus Fusion: Results from the Randomized, Multicenter Food and Drug Administration Investigational Device Exemption Study of the CHARITE´ Artificial Disc. Congress of Neurological Surgeons. October, 2005; Boston, Massachusetts.
287. Geisler FH, McAfee PC, Saiedy S, Moore S, Blumenthal SL, Guyer RD, Regan JJ: The Revisability of the CHARITE´ Artificial Disc: Analysis of 688 Consecutive Patients from a Prospective, Randomized, Multicenter IDE Trial. Congress of Neurological Surgeons. October, 2005; Boston, Massachusetts.
288. Guyer RD: Testing of Arthroplasty Devices: Clinical Outcomes of Lumbar Arthroplasty. North American Spine Society Spring Break. March, 2006; San Diego, California.
289. Guyer RD: Spinal Stenosis: Surgical Decompression for Spinal Stenosis. North American Spine Society Spring Break. March, 2006; San Diego, California.
290. Blumenthal SL: Intervertebral Disk Replacement: Perspectives on the Charité Prosthesis. Symposium: Orthopaedic Surgery 2006: At the Leading Edge. American Academy of Orthopaedic Surgeons. March, 2006; Chicago, Illinois.
291. Guyer RD: Since FDA Approval Lumbar Disc Arthroplasty has been Extremely Successful for the Following Reasons. . . (Debate Session). Federation of Spine Associations. March, 2006; Chicago, Illinois.
292. Rashbaum RF: Practical Considerations in Complex Regional Pain Syndrome. April, 2006; American Medical Association of Sports Medicine. April, 2006; Miami Beach, Florida.
293. Zigler JE, Sachs BL, Rashbaum RF, Ohnmeiss DD: Two Level Total Disc Replacement with ProDisc: Results and Comparison to One Level Cases. Spine Society of Australia. April, 2006; Sydney, Australia.
294. Geisler F, Blumenthal S, Guyer R, McAfee P, Regan J: Alternative Statistical Testing Demonstrates Superiority of Lumbar Arthroplasty Clinical Outcomes at 2 Years vs. Fusion for the Treatment of One-Level Lumbar Degenerative Disc Disease at L4-5 or L5-S1. Spine Arthroplasty Society. May, 2006; Montreal, Canada.
295. Siddiqui S, Guyer R, Zigler J, Ohnmeiss D, Blumenthal S, Sachs B, Hochschuler S: Factors Related to the 20 Best and 20 Worst 24-months Outcomes of Total Disc Replacement in Prospective FDA-regulated Trials. Spine Arthroplasty Society. May, 2006; Montreal, Canada.
296. Musante D, Elders G, Rashbaum R, Zigler J, Sachs B, Ohnmeiss D: Comparison of Operative and Adjacent Level Motion Following Disc Replacement Versus Fusion and Their Association with Clinical Outcome: 2-year Follow up. Spine Arthroplasty Society. May, 2006; Montreal, Canada.
297. Zigler J, Sachs B, Rashbaum R, Ohnmeiss D: A Prospective, Randomized Study Comparing ProDisc to Fusion: 24 to 36 Month Follow-up. Spine Arthroplasty Society. May, 2006; Montreal, Canada.

298. Zigler J, Gill K, Balderson R, Cammisa F, Linovitz R: Two-year Follow-up from 5 Centers on the ProDisc-C IDE Trial. Spine Arthroplasty Society. May, 2006; Montreal, Canada.
299. Sachs B: Long Term Retrospective Study of First-generation Wallis Implant. Spine Arthroplasty Society. May, 2006; Montreal, Canada.
300. Rashbaum RF: Discogenic Pain Treated by Implantable Pain Relieve Devices (Symposium: Critical Decision Making Process in the Management of the Degenerative Motion Segment). Spine Arthroplasty Society. May, 2006; Montreal, Canada.
301. Hochschuler SH: Strategies to Handle Persistent Pain (Symposium: Avoidance and Management of Complications of Lumbar Disc Arthroplasty). Spine Arthroplasty Society. May, 2006; Montreal, Canada.
302. Leahy M, Zigler J, Ohnmeiss D, Rashbaum R, Sachs B: Analysis of Total Disc Replacement in Post-Discectomy Patients and Comparison to Patients with No Previous Lumbar Spine Surgery. International Society for the Study of the Lumbar Spine. June, 2006; Bergen, Norway.
303. Lhamby J, Guyer R, Zigler J, Blumenthal S, Sachs B, Hochschuler S, Rashbaum R, Ohnmeiss D: Patients Undergoing Total Disc Replacement with Spinal Fusion at Different Lumbar Levels. International Society for the Study of the Lumbar Spine. June, 2006; Bergen, Norway.
304. Zigler J, Sachs B, Rashbaum R, Ohnmeiss D: A Prospective, Randomized Study Comparing ProDisc to Fusion: 24 to 36 Month Follow-up. International Society for the Study of the Lumbar Spine. June, 2006; Bergen, Norway.
305. McAfee, P, Geisler F, Saiedy S, Moore S, Regan J, Guyer R, Blumenthal S, Fedder I, Tortolani J, Cunningham B: Revisibility of the Charité Artificial Disc Replacement - Analysis of 688 Patients Enrolled in the US IDE Study of the Charité Artificial Disc. International Society for the Study of the Lumbar Spine. June, 2006; Bergen, Norway.
306. Guyer RD: Is Motion Preservation the way to go? (Debate: Pro) International Society for the Study of the Lumbar Spine. June, 2006; Bergen, Norway.
307. Zigler J, Sachs B, Rashbaum R, Ohnmeiss D: A Prospective, Randomized Study Comparing ProDisc to Fusion: 24 to 36 Month Follow-up. Spine Across the Sea. July, 2006; Maui, Hawaii.
308. Lhamby J, Guyer R, Zigler J, Blumenthal S, Sachs B, Hochschuler S, Rashbaum R, Ohnmeiss D: Patients Undergoing Total Disc Replacement with Spinal Fusion at Different Lumbar Levels. Spine Across the Sea. July, 2006; Maui, Hawaii.
309. Leahy M, Zigler J, Ohnmeiss D, Rashbaum R, Sachs B: Analysis of Total Disc Replacement in Post-Discectomy Patients and Comparison to Patients with No Previous Lumbar Spine Surgery. Spine Across the Sea. July, 2006; Maui, Hawaii.
310. Siddiqui S, Guyer R, Zigler J, Ohnmeiss D, Blumenthal S, Sachs B, Hochschuler S: Factors Related to the 20 Best and 20 Worst 24-months Outcomes of Total Disc Replacement in Prospective FDA-regulated Trials. Spine Across the Sea. July, 2006; Maui, Hawaii.

311. Guyer RD, Blumenthal SL, Geisler FH, McAfee PC, Regan JJ: The First Year Following FDA Approval of the CHARITÉ Artificial Disc: "Real World" Adverse Events Outside an IDE Study Environment. Spine Across the Sea. July, 2006; Maui, Hawaii.
312. Zigler JE: Lumbar Spine: Fusion/TDA Symposium on Post-Surgical Neurologic Dysfunction: Pain to Paresthesias to Paralysis. Spine Across the Sea. July, 2006; Maui, Hawaii.
313. Siddiqui S, Hochschuler SH, Guyer RD, Zigler JE, Ohnmeiss DD, Blumenthal SL, Sachs BL, Rashbaum RF, Craig L: Factors Related to the 20 Best and 20 Worst 24-month Outcomes of Total Disc Replacement in Prospective FDA-regulated Trials. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
314. Blumenthal SL, Banco RJ, Bitan FD, Cappuccino A, Geisler FH, Guyer RD, Hochschuler SH, Holt RT, Jenis LG, Majd ME, McAfee PC, Mullin BB, Regan JJ, Stadlan NY, Tromanhauser SG, Wong DC: Lumbar Arthroplasty vs. Anterior Interbody Fusion at One-Level: Clinical Results at 5-Year Follow-up from the IDE Study of the CHARITÉ Artificial Disc. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
315. Blumenthal SL, Guyer RD, Geisler FH, McAfee PC, Regan JJ: The First Year Following FDA Approval of the CHARITÉ Artificial Disc: "Real World" Adverse Events Outside an IDE Study Environment. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
316. McAfee PC, Geisler FH, Saiedy S, Regan JJ, Guyer RD, Hochschuler SH, Cunningham BW: Revisions of Artificial Disc Replacement – Analysis of 688 Patients Enrolled in a US IDE Prospective Randomized Trial. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
317. Goldstein JA, Zigler JE, Delamarter RB, Spivak JM, Linovitz R, Danielson III G, Haider T, Cammisa Jr. FP, Zucherman J, Balderston RA, Kitchel S: Lumbar Total Disc Replacement with the ProDisc-L Artificial Disc Versus Fusion: A Prospective Randomized Multi-center Food and Drug Administration IDE Trial. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
318. Geisler FH, Hochschuler SH, Guyer RD, McAfee PC, Regan JJ: Alternative Statistical Testing Demonstrates Superiority of Lumbar Arthroplasty Clinical Outcomes at 2 years vs. Fusion for the Treatment of One-Level Lumbar Degenerative Disc Disease at L4-5 or L5-S1. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
319. Guyer, RD, How to Capitalize on Idea Development from the Front Lines: Or from Napkin Drawings to Real World Agreements. (Precourse: Your Innovative Idea: Technology Development Options). North American Spine Society. September, 2006; Seattle, Washington.

320. Siddiqui S, Guyer RD, Zigler JE, Ohnmeiss DD, Blumenthal SL, Craig L, Sachs BL, Hochschuler SH, Rashbaum RF: Factors Related to the 20 Best and 20 Worst 24-month Outcomes of Total Disc Replacement in Prospective FDA-regulated Trials. North American Spine Society. September, 2006; Seattle, Washington.
321. Zigler, JE, Sachs, BL, Rashbaum, RF, Ohnmeiss, DD. A Prospective, Randomized Study Comparing ProDisc to Fusion: 24 To 36 Month Follow-Up. North American Spine Society. September, 2006; Seattle, Washington.
322. Delamarter RB, Zigler JE, Spivak J, Linovitz R, Danielson G, Haider T, Cammisa FP, Zucherman J, Balderston R, Kitchel S, Foley K, Watkins R, Bradford D, Yue J, Yuan H, Herkowitz H, Geiger D. Lumbar Total Disc Replacement with the Pro-Disc-L Artificial Disc vs. Fusion: A Prospective Randomized Multi-Center Food and Drug Administration IDE Trial. North American Spine Society. September, 2006; Seattle, Washington.
323. Guyer RD, Blumenthal SL, Geisler FH, McAfee PC. One-Level Lumbar Arthroplasty in Patients 18-45 Years of Age vs. Patients 46-60 Years of Age: Is There a Difference in Clinical Outcome? North American Spine Society. September, 2006; Seattle, Washington.
324. Blumenthal SL, Guyer RD, Geisler FH, McAfee PC, Regan JJ: The First Year Following FDA Approval of the CHARITÉ Artificial Disc: Real World Adverse Events Outside an IDE Study Environment. Spine Society of Europe (EuroSpine). October, 2006; Istanbul, Turkey.
325. Delamarter R, Zigler, JE, Spivak JM, Linovitz RJ, Haider T, Cammisa FP Jr, Zucherman JF, Balderston RA, Kitchel SH: Overall Results of the Prospective, Randomized Multi-Center IDE Trial of ProDisc-L vs. Lumbar Fusion. American Academy of Orthopaedic Surgeons. February, 2007; San Diego, California.
326. Guyer RD: Defining Patient Selection: The Art of Avoiding Complications. Federation of Spine Associations. February, 2007; San Diego, California.
327. Guyer RD: Motion Preservation Technologies and Their Outcome (Instructional Course Lecture). American Academy of Orthopaedic Surgeons. February, 2007; San Diego, California.
328. Blumenthal SL: Charite. Lumbar Artificial Discs (panel presentation). North American Spine Society Spring Break. March, 2007; Phoenix, Arizona.
329. Araghi A, Lumbar Artificial Discs (panel presentation). North American Spine Society Spring Break. March, 2007; Phoenix, Arizona.
330. Zigler J: ProDisc. Lumbar Artificial Discs (panel presentation). North American Spine Society Spring Break. March, 2007; Phoenix, Arizona.
331. Hochschuler SH: Medical/Legal/Economic Issues (panel presentation). North American Spine Society Spring Break. March, 2007; Phoenix, Arizona.
332. Hochschuler SH: Posterior Lumbar Arthroplasty (panel presentation). North American Spine Society Spring Break. March, 2007; Phoenix, Arizona.
333. Blumenthal SL: Cervical Controversies (panel presentation). North American Spine Society Spring Break. March, 2007; Phoenix, Arizona.

334. Araghi A: New Technologies in Spinal Decompression and Fusion (panel presentation). North American Spine Society Spring Break. March, 2007; Phoenix, Arizona.
335. Rashbaum RF: Post Post-operative Healing and Transition to Rehabilitation. Association of Chiropractic Colleges—Research Agenda Conference. March, 2007; Phoenix, Arizona.
336. Guyer RD, McAfee PC, Banco RJ, Bitan FD, Cappuccino A, Geisler FH, Hochschuler SH, Holt RT, Jenis LG, Majd ME, Mullin BB, Regan JJ, Stadlan NY, Tromanhauser SG, Wong DC, Blumenthal SL: Lumbar Arthroplasty vs. Anterior Interbody Fusion at One-level Clinical Results at 5-year Follow-up from the IDE Study of Charite Artificial Disc. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
337. Blumenthal SL, Geisler F, Zigler JE, Guyer RD, Ohnmeiss DD: Similarities and Differences in Clinical and Radiographic Outcomes of Two US IDE Trials for Lumbar Disc Replacement. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
338. Cunningham BW, DeMuth G, McAfee PC, Scott-Young M, Yoon K, Blumenthal S, Guyer R, Geisler F, Regan J, Conix JB, Hess R, Pimenta L, Diaz R, Fedder I, Tortolani PJ: Survivor Analysis of the Charite Artificial Disc: Review of 1,938 Patients from Eight Leading International Spine Centers. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
339. Blumenthal SL: 5 Year Outcomes of CHARITE TDR and Comparison of Charite and ProDisc-L IDE Investigations. (Precourse) Spine Arthroplasty Society. May, 2007; Berlin, Germany.
340. Geisler FH, Guyer RD, Blumenthal SL, McAfee PC, Cappuccino A, Bitan F, Regan JJ: The Effect of Previous Surgery on Clinical Outcome Following One-level Lumbar Arthroplasty. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
341. Geisler FH, Guyer RD, Blumenthal SL, McAfee PC, Cappuccino A, Bitan FD, Regan JJ: Evidence for One-Level Lumbar Arthroplasty or Arthrodesis for Degenerative Disc Disease: A Comparison of Two Lumbar Arthroplasty IDE Studies with 2-year Follow-Up. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
342. Webb S, Brown CW, Sachs B, Wang M, Castellvi A, Halperin M: Total Facet Arthroplasty in the Treatment of Spinal Stenosis: Results from an Ongoing IDE Clinical Trial. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
343. Blumenthal SB, Zigler JE, Guyer RD, Ohnmeiss DD: Comparison of Charite vs. ProDisc for the Treatment of Single-level Symptomatic Disc Degeneration: Prospective Data from One Center. International Society for the Study of the Lumbar Spine. June, 2007; Hong Kong, China.
344. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: A Prospective Randomized Study Comparing Two Lumbar Total Disc Replacement Devices. International Meeting on Advanced Spinal Techniques (IMAST). July, 2007; Paradise, Bahamas.
345. Roush T, Bradley, WD, Hisey MS, Ohnmeiss DD: L5-S1 Interbody Fusion Using a Unique Trans-sacral Approach. International Meeting on Advanced Spinal Techniques (IMAST). July, 2007; Paradise, Bahamas.

346. Bosita RV, Banco RJ, Blumenthal SL, Buckley R, Cappuccino A, Demakas JJ, Garden MS, Geisler F, Jenis LG, Laich DT, Lazar RD, Puccio ST, Thalgott J, Tromanhauser SG: Performance and Safety of the STALIF Device for Anterior Lumbar Interbody Fusion. International Meeting on Advanced Spinal Techniques (IMAST). July, 2007; Paradise, Bahamas.
347. Cunningham BW, Demuth G, McAfee PC, Scott-Young M, Yoon, KJ, Blumenthal SL, Guyer RD, Geisler F, Regan JJ, Conix B, Hes R, Pimenta L, Diaz R, Fedder RL, Tortolani J: Survivorship Analysis of the CHARITE Artificial Disc: Review of 1,938 Patients from Eight Leading International Spine Centers. International Meeting on Advanced Spinal Techniques (IMAST). July, 2007; Paradise, Bahamas.
348. McAfee PC, Cunningham BW, Geisler F, Guyer RD, Blumenthal SL, Cappuccino A, Regan JJ: A Comparison of In Vivo and In Vitro Range of Motion Distribution Following One-Level Lumbar Arthroplasty -2 to 5 year Radiographic Follow up of 375 Consecutive Patients Enrolled in the CHARITÉ Artificial Disc FDA Level I Pivotal Trial. International Meeting on Advanced Spinal Techniques (IMAST). July, 2007; Paradise, Bahamas.
349. Guyer RD, Lhamby J, Ohnmeiss DD, Zigler J, Blumenthal S: Total Disc Replacement and Fusion at Different Lumbar Levels in the Same Patient. World Spine. July, 2007; Istanbul, Turkey.
350. Hu SS, Sachs BL, Green JA, Ramsay J, Kruse P, Khutoryansky N, Graham RS, Delacy D: Recombinant Activated Factor VII in Spinal Surgery: A Randomized Double-Blind Placebo-Controlled Trial. Scoliosis Research Society. September, 2007; Edinburgh, Scotland.
351. Blumenthal SL, Guyer RD, Ohnmeiss DD, Sachs BL, Hochschuler SH, Rashbaum RF: Comparison of Charite Vs. ProDisc for the Treatment of Single-level Symptomatic Disc Degeneration: Prospective Data from One Center. Spine Society of Europe. October, 2007; Brussels, Belgium.
352. Guyer RD, Banco RJ, Geisler FH, Cappuccino A, Hochschuler SH, Jenis LG, Tromanhauser SG, Blumenthal SL: Lumbar Arthroplasty vs. Anterior Interbody Fusion at One-level Clinical Results at 5-year Follow-up from the IDE Study of Charite Artificial Disc. North American Spine Society. October, 2007; Austin, Texas.
353. Cunningham BW, Demuth G, McAfee PC, Scott-Young M, Yoon, KJ, Blumenthal SL, Guyer RD, Geisler F, Regan JJ, Conix B, Hes R, Pimenta L, Diaz R, Fedder RL, Tortolani J: Survivorship Analysis of the CHARITE Artificial Disc: Review of 1,938 Patients from Eight Leading International Spine Centers. North American Spine Society. October, 2007; Austin, Texas.
354. Murrey D, Janssen ME, Delamarter RB, Goldstein J, Spivak JM, Zigler J, Tay B, Chapman J, Yue J, Gill K, Balderston RA, Cammisa FP, Anderson G, Linovitz R: Twenty-Four Month Results from the Prospective, Randomized Multi-Center IDE Trial of ProDisc-C vs. ACDF. North American Spine Society. October, 2007; Austin, Texas.

355. Guyer RD: The Paradox in Medicine Today -Exciting Technology and Economic Challenges. (Presidential Address) North American Spine Society. October, 2007; Austin, Texas.
356. Ohnmeiss DD: Potential Financial Conflict of Interest. (Pre-course: Information for Study Coordinators) North American Spine Society. October, 2007; Austin, Texas.
357. Blumenthal SL: (part of Motion Preservation Pre-course). North American Spine Society. October, 2007; Austin, Texas.
358. Sachs BL: EMR—Real Life Experiences (part of Practice Management Pre-course). North American Spine Society. October, 2007; Austin, Texas.
359. Darden B, Murrey D, Janssen M, Spivak J, Zigler J, Tay B, Goldstein J: Twenty-four Month Results from the Prospective, Randomized Multi-center IDE Trial of ProDisc-C vs. ACDF. Cervical Spine Research Society. November, 2007; San Francisco, California.
360. Zigler J: Results of the Prospective, Randomized, Multicenter Food and Drug Administration Investigational Device Exemption Study of the ProDisc-L Total Disc Replacement Versus Circumferential Fusion for the Treatment of 1-Level Degenerative Disc Disease. Asia Pacific Spine Arthroplasty Society. January, 2008; Seoul, South Korea.
361. Blumenthal S, Roush T, Guyer R, Ohnmeiss D: Analysis of Hybrid (Total Disc Replacement / Fusion Constructs) in the Lumbar Spine: A Comparison with Two-Level Total Disc Replacement. Asia Pacific Spine Arthroplasty Society. January, 2008; Seoul, South Korea.
362. Guyer R, Cappuccino A, Blumenthal S: A Prospective Randomized Comparison of Two Lumbar Total Disc Replacements. Asia Pacific Spine Arthroplasty Society. January, 2008; Seoul, South Korea.
363. Zigler J, Murrey D, Janssen M, Delamarter R, Goldstein J, Tay B, Darden B: Results of the Prospective, Randomized, Multi-Center Food and Drug Administration Investigational Device Exemption Study of the ProDisc-C Total Disc Replacement versus Anterior Discectomy and Fusion for the Treatment of 1-Level Symptomatic Cervical Disc Disease. Asia Pacific Spine Arthroplasty Society. January, 2008; Seoul, South Korea.
364. Hochschuler SH: The Developmental Status of Annular Repair in Spine Arthroplasty. Asia Pacific Spine Arthroplasty Society. January, 2008; Seoul, South Korea.
365. Webb S, Brown C, Sachs B, Castellvi A, Wingo C, Halperin M, Bajares G, Oliva AP, Prejbeanu R, Branea I: The Total Facet Arthroplasty System in the Treatment of Spinal Stenosis: Worldwide Experience with Longest Follow-Up of 24 Months. Asia Pacific Spine Arthroplasty Society. January, 2008; Seoul, South Korea.
366. Blumenthal SL: Surgical Treatments for Single-Level L5-S1 DDD: TDR vs. Fusion. Asia Pacific Spine Arthroplasty Society. January, 2008; Seoul, South Korea.

367. McAfee PC, Blumenthal SL, Guyer RD, Holt RT, Majd ME, Geisler FH, Banco RJ: Prospective, Randomized, Multicenter FDA IDE Study of Charité™ Artificial Disc vs. Lumbar Fusion: Effect at 5-Year Follow-up of Prior Surgery on Clinical Outcomes following Lumbar Arthroplasty. Congress of Neurological Surgeons/American Association of Neurological Surgeons. February, 2008; Orlando, Florida.
368. Guyer RD, McAfee PC, Hochschuler SH, Holt RT, Majd ME, Blumenthal SL, Regan JJ, Geisler FH, Banco RJ, Jenis L, Wong D, Capuccino A, Tromanhauser SG, Bitan F, Stadlan N: Prospective, Randomized, Multicenter Food and Drug Administration Investigational Device Exemption Study of Lumbar Total Disc Replacement with the Charité™ Artificial Disc Versus Lumbar Fusion 5-Year Follow-up. Congress of Neurological Surgeons/American Association of Neurological Surgeons. February, 2008; Orlando, Florida.
369. Banco RJ, Geisler FH, Guyer RD, Hetzell B, Holt RT, Majd ME: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Effect at 5-year Follow-up of Age on Clinical Outcomes Following Lumbar Arthroplasty. Congress of Neurological Surgeons/American Association of Neurological Surgeons. February, 2008; Orlando, Florida.
370. Guyer RD: The Appropriate Process of Developing New Technology. (Symposium: Novel Technology for the Treatment of Spinal Disorders and the Effect on Orthopaedic Surgeons). American Academy of Orthopaedic Surgeons. March, 2008; San Francisco, California.
371. Guyer, RD, Cappuccino A, Blumenthal SL: A Prospective Randomized Comparison of Two Lumbar Total Disc Replacements. Spine Arthroplasty Society. May, 2008; Miami, Florida.
372. Ohnmeiss DD, Bodemer W, Zigler JE: Effect of Adverse Events on Clinical Outcome: Analysis of Data from a Prospective Trial. Spine Arthroplasty Society. May, 2008; Miami, Florida.
373. Geisler FH, Banco R, Blumenthal SL, Guyer RD, McAfee PC, Holt RT, Majd ME, Regan JJ: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Effect at 5-year Follow-up of Prior Discectomy on Clinical Outcomes Following Lumbar Arthroplasty. Spine Arthroplasty Society. May, 2008; Miami, Florida.
374. Banco RJ, Geisler FH, Guyer RD, Hetzell B, Holt RT, Majd ME: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar fusion: Effect at 5-year Follow-up of Age on Clinical Outcomes Following Lumbar Arthroplasty. Spine Arthroplasty Society. May, 2008; Miami, Florida.
375. Ohnmeiss DD, Bodemer W, Zigler JE: Effect of Adverse Events on Clinical Outcome: Analysis of Data from a Prospective Trial. International Society for the Study of the Lumbar Spine. May, 2008; Geneva, Switzerland.
376. McAfee PC, Banco RJ, Blumenthal SL, Geisler FH, Guyer RD, Holt RT, Majd ME: Prospective, Randomized, Multicenter FDA IDE Study of Charite Artificial Disc Vs.

- Lumbar Fusion: Effect at 5-Year Follow-up of Prior Surgery on Clinical Outcomes Following Lumbar Arthroplasty. Eurospine. May, 2008; Geneva, Switzerland.
377. Guyer RD, Laurysen C, Blumenthal SL: A Prospective Randomized Comparison of Cervical Total Disc Replacement to Anterior Cervical Fusion. North American Spine Society SpineWeek. May, 2008; Geneva, Switzerland.
 378. Guyer RD, Cappuccino A, Blumenthal SL: A Prospective Randomized Comparison of Two Lumbar Total Disc Replacements. North American Spine Society SpineWeek. May, 2008; Geneva, Switzerland.
 379. Delamarter RB, Zigler JE, Goldstein J: 5-Year Results of the Prospective, Randomized, Multi-center FDA Investigational Device Exemption (IDE) ProDisc®-L Total Disc Replacement (TDR) Clinical Trial. Eurospine. May, 2008; Geneva, Switzerland.
 380. Darden BV, Murrey DB, Zigler JE, Janssen M, Delemarter RB, Goldstein J, Tay B: Results of the Prospective, Random, Multi-center Food and Drug Administration Investigational Device Exemption Study of the ProDisc-C Total Disc Replacement versus Anterior Discectomy and Fusion for the Treatment of 1-level Symptomatic Cervical Disc Disease. Eurospine. May, 2008; Geneva, Switzerland.
 381. Goldstein J, Delamarter RB, Zigler JE, Balderston RA, Spivak JM: Two-level ProDisc®-L Investigational Device Exemption (IDE) Clinical Trial Results vs. One-level ProDisc®-L IDE Clinical Trial Results. Eurospine. May, 2008; Geneva, Switzerland.
 382. Murrey D, Janssen M, Delamarter R, Goldstein J, Zigler J, Tay B, Darden B: Results of the Prospective, Randomized, Multi-center Food and Drug Administration Investigational Device Exemption Study of the ProDisc®-C Total Disc Replacement (TDR) vs. Anterior Discectomy and Fusion. Cervical Spine Research Society - European Section. May, 2008; Geneva, Switzerland.
 383. Theofilos C, Araghi A, Zucherman J, Sasso R: Flexicore® Disc Replacement vs. Fusion for Lumbar Degenerative Disc Disease: Main Outcomes from a Prospective Randomized Controlled Trial. North American Spine Society SpineWeek. May, 2008; Geneva, Switzerland.
 384. Li B, Guyer RD, Blumenthal SL, Zigler JE, Ohnmeiss DD: Does Pre-Operative Disc Height Affect Outcome of Lumbar Total Disc Replacement? International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
 385. Guyer RD, Geisler FH, Holt RT, Majd ME, Regan JJ, Wong DC, Jenis LG, Banco RJ, Blumenthal SL, DeMuth GE, Hetzell BC: The Impact of Postoperative Disc Height Following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
 386. Regan JJ, Banco RJ, Blumenthal SL, Jenis LG, Geisler FH, Holt RT, Majd ME, Hetzell B: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar fusion: Comparison of the Clinical outcome of Patients Implanted at L4-L5 vs. L5-S1. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.

387. Guyer RD, McAfee PC, Banco RJ, Bitan FD, Cappuccino A, Geisler FH, Hochschuler SH, Holt RT, Jenis LG, Majd ME, Regan JJ, Stadlan NY, Tromanhauser SG, Wong DC, Blumenthal SL: Prospective, Randomized, Multicenter, Food and Drug Administration Investigational Device Exemption Study of Lumbar Total Disc Replacement with the Charite Artificial Disc Versus Lumbar Fusion – 5 Year Follow-up. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
388. Banco RJ, Geisler FH, Guyer RD, Hetzell B, Holt RT, Majd, ME: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Effect at 5-year Follow-up of Age on Clinical Outcomes Following Lumbar Arthroplasty. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
389. McAfee PC, Banco RJ, Blumenthal SL, Geisler FH, Guyer RD, Holt RT, Majd ME: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Effect at 5-year Follow-up of Prior Surgery on Clinical Outcomes Following Lumbar Arthroplasty. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
390. Geisler FH, Banco RJ, Blumenthal SL, Guyer RD, McAfee PC, Holt RT, Majd ME, Regan JJ: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Effect at 5-year Follow-up of Prior Discectomy on Clinical Outcomes Following Lumbar Arthroplasty. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
391. Blumenthal SL, Ohnmeiss DD, Guyer RD, Hochschuler SH: Analysis of Total Disc Replacement Outcomes When Applying MCID (Minimal Clinically Important Difference) Criteria. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
392. Zigler JE, Ohnmeiss DD: Comparison of Two-level vs. One-level Total Disc Replacement: Results from a Prospective FDA-regulated Trial. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
393. Majd ME, Holt RT, Guyer RD, Banco RJ, Geisler FH, Jenis LG, Regan JJ, Wong DC, Blumenthal SL: Two- and Five-year Lumbar Index-level Motion Following Arthroplasty: Impact of Heterotopic Ossification. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
394. Guyer RD: Lumbar ADR: State of the Art. (Pre-course: Motion Technology). North American Spine Society. October, 2008; Toronto, Canada.
395. Ohnmeiss DD: Budgets and Contracts for Clinical Trials. (Pre-course: Conduction Clinical Research: Information for Study Coordinators). North American Spine Society. October, 2008; Toronto, Canada.

396. Delamarter R, Zigler J, Spivak JM, Linovitz R, Danielson, III GO, Haider T, Cammisa FP, Zucherman J, Balderston RA, Kitchell S, Foley K, Watkins R, Bradford D, Yue J, Yuan H, Herkowitz H, Bendo JA, Peppers T, Sachs B, Girardi FP, Kropf MA, Goldstein JA: Five-Year Results of the Prospective, Randomized, Multicenter, FDA IDE ProDisc®-L Clinical Trial. North American Spine Society. October, 2008; Toronto, Canada.
397. Bodemer W, Ohnmeiss D, Zigler J: The Effect of Adverse Events on Clinical Outcome: Analysis of Data from an FDA IDE Trial. North American Spine Society. October, 2008; Toronto, Canada.
398. Block AR, Austin S, Ohnmeiss D: Presurgical Psychological Screening in Total Disc Replacement: SCL-90 Profiles Predict Diminished Results. North American Spine Society. October, 2008; Toronto, Canada.
399. Guyer RD, Cappucino A, Blumenthal S: A Prospective Randomized Comparison of Two Lumbar Total Disc Replacements. North American Spine Society. October, 2008; Toronto, Canada.
400. Guyer RD, Geisler F, Majd M, Holt RT, Regan J, Blumenthal S, Wong D, Jenis L, Banco R: The Impact of Preoperative DEXA Scores Following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. North American Spine Society. October, 2008; Toronto, Canada.
401. Zigler JE, Ohnmeiss DD: Is There a “Euphoric Bias” Effecting the Outcomes of Randomized vs. Non-randomized Patients Enrolling in New Technology Trials? North American Spine Society. October, 2008; Toronto, Canada.
402. Marchetti J, Verma-Kurvari S, Patel N, Gibbs S, Lankford C, Ohnmeiss D: Do EMG Readings Predict Patient’s Response to ESI? North American Spine Society. October, 2008; Toronto, Canada.
403. Block A, Mock L, Waldrip A, Ohnmeiss D: Results of Random Drug Testing in Chronic Back Pain Patients Managed with Pain Medication. North American Spine Society. October, 2008; Toronto, Canada.
404. Delamarter R, Zigler JE, Balderston RA, Spivak JM, Linovitz R, Zucherman J, Yue J, Haider T, Kitchel S, Cammisa FP, Danielson GO, Kropf MA, Goldstein JA: Results of the Prospective Randomized Multicenter FDA IDE Study of the ProDisc®-L Total Disc Replacement vs. Circumferential Fusion for the Treatment of Two Level Degenerative Disc Disease. North American Spine Society. October, 2008; Toronto, Canada.
405. Delamarter R, Murrey D, Janssen M, Goldstein J, Zigler J, Tay B, Darden B: Results from the Prospective, Randomized Multi-Center IDE Trial of ProDisc-C vs. ACDF with 4 Year Follow-up and Continued Access Patients. Cervical Spine Research Society. December, 2008; Austin, Texas.
406. Guyer RD: Argument for Lumbar Arthroplasty (Symposium Debate). American Academy of Orthopaedic Surgeons. February, 2009; San Francisco, California.
407. Blumenthal SL: Oxiplex Reduces Post Surgical Back Pain, Leg Pain and Associated Symptoms 6 Months Following Single-level Lower Lumbar Laminectomy for Removal of a Herniated Disc. Spine Society of Australia. April, 2009; Brisbane, Australia.

408. Majd ME, Holt RT, Guyer RD, Banco RJ, Geisler FH, Jenis LG, Regan JJ, Wong DC, Blumenthal SL: Two- and Five-year Lumbar Index-Level Motion Following Arthroplasty: Impact of Heterotopic Ossification. Spine Society of Australia. April, 2009; Brisbane, Australia.
409. Zigler JE, Parkinson A, Guyer RD, Blumenthal SL, Ohnmeiss DD: Re-operations in Lumbar Total Disc Replacement: Experience with Our First Consecutive 800 Cases. Spine Arthroplasty Society. April-May, 2009; London, England.
410. Guyer RD, Shellock J, MacLennan B, Hanscom D, Knight RQ, McComb P, Jacobs J, Bradford D: Early Failure of Metal-on-Metal Artificial Discs Due to Metal Hypersensitivity: The Diagnostic and Treatment Approach in 4 Collected Cases. Spine Arthroplasty Society. April-May, 2009; London, England.
411. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Impact of Adverse Events on Outcome in Cervical Total Disc Replacement Trials. Spine Arthroplasty Society. April-May, 2009; London, England.
412. Guyer RD, Cappuccino A, Blumenthal SL: 24-month Follow-up of a Prospective Randomized Comparison of Two Lumbar Total Disc Replacements. Spine Arthroplasty Society. April-May, 2009; London, England.
413. Wong DC, Jenis LG, Guyer RD, Banco RJ, Geisler FH, Holt RT, Majd ME, Regan JJ, Blumenthal SL, DeMuth GE, Hetzell BC: Is Preoperative Disc Height a Contributing Factor in 5-year Success Rate with Arthrodesis and Arthroplasty? Spine Arthroplasty Society. April-May, 2009; London, England.
414. Guyer RD: Can Society Afford TDR? (Symposium: Challenges and Complications). Spine Arthroplasty Society. April-May, 2009; London, England.
415. Ohnmeiss DD: Statistical Methods for Study Design and Data Analysis. Symposium: Study Design Methodologies and Techniques in Biomechanical Studies. Spine Arthroplasty Society. April-May, 2009; London, England.
416. Guyer RD, Auer PB, Zigler JE, Ohnmeiss DD, Blumenthal SL: Relationship between Endplate Morphology and Clinical Outcome of Single-Level Lumbar Disc Arthroplasty. International Society for the Study of the Lumbar Spine. May, 2009; Miami, Florida.
417. Zigler JE, Parkinson A, Guyer RD, Blumenthal SL, Ohnmeiss DD: Re-operations in Lumbar Total Disc Replacement: Experience with Our First Consecutive 800 Cases. International Society for the Study of the Lumbar Spine. May, 2009; Miami, Florida.
418. Guyer RD, Shellock J, MacLennan B, Hanscom D, Urban R, Knight RQ, McComb P, Jacobs J, Bradford D: Early Failure of Metal-on-Metal Artificial Discs Due to Metal Hypersensitivity: The Diagnostic and Treatment Approach in 4 Collected Cases. International Meeting on Advanced Spine Techniques (IMAST). July, 2009; Vienna, Austria.
419. Zigler JE, Parkinson A, Guyer RD, Blumenthal SL, Ohnmeiss DD: Re-operations in Lumbar Total Disc Replacement: Experience with Our First Consecutive 800 Cases. International Meeting on Advanced Spine Techniques (IMAST). July, 2009; Vienna, Austria.

420. Guyer RD: Overview of Posterior Fusions. International Meeting on Advanced Spine Techniques (IMAST). July, 2009; Vienna, Austria.
421. Guyer RD: Can Society Afford TDR? International Meeting on Advanced Spine Techniques (IMAST). July, 2009; Vienna, Austria.
422. Saidy S, McAfee PC, Geisler FH, Moore S, Regan J, Guyer RD, Blumenthal S, Fedder IL, Tortolani JP, Cunningham BW: Revision Following Lumbar Total Disc Replacement: Analysis of Reoperations in the U.S. IDE Study of Lumbar Arthroplasty. International Meeting on Advanced Spine Techniques (IMAST). July, 2009; Vienna, Austria.
423. Goldstein JA, Delamarter R, Zigler J, Balderston R, Spivak JM: Two-Level vs. One-Level Prospective, Randomized, FDA IDE Clinical Trial on Cervical Arthroplasty. International Meeting on Advanced Spine Techniques (IMAST). July, 2009; Vienna, Austria.
424. Guyer RD, Shellock J, MacLennan B, Hanscom D, Knight RQ, McComb P, Jacobs J, Urban R, Bradford D, Duffy M: Early Failure of Metal-on-Metal Artificial Discs Due to Metal Hypersensitivity: The Diagnostic and Treatment Approach in Four Collected Cases. Spine Across the Sea. July, 2009; Maui, Hawaii.
425. Guyer RD, Auer PB, Zigler JE, Ohnmeiss DD, Blumenthal SL, Duffy M: Relationship between Endplate Morphology and Clinical Outcome of Single-Level Lumbar Disc Arthroplasty. Spine Across the Sea. July, 2009; Maui, Hawaii.
426. Zigler JE, Parkinson A, Guyer RD, Blumenthal SL, Ohnmeiss DD: Re-operations in Lumbar Total Disc Replacement: Experience with Our First Consecutive 800 Cases. Spine Across the Sea. July, 2009; Maui, Hawaii.
427. Zigler JE, Guyer RD, Ohnmeiss DD, Blumenthal SL: Anterior Re-operation at the Same Level Following Lumbar Total Disc Replacement. Spine Across the Sea. July, 2009; Maui, Hawaii.
428. Blumenthal S, Zigler J, Rodriguez M, Guyer RD, Ohnmeiss DD, Atanasov A: Cervical Disc Replacement vs. Anterior Cervical Fusion: Combined Results from Multiple Prospective, Randomized Studies at a Single Site. Spine Across the Sea. July, 2009; Maui, Hawaii.
429. Guyer RD, Pettine K, Blumenthal S, Duffy M: 24-month Follow-up of a Prospective, Randomized Study Comparing Two Lumbar Total Disc Replacements. Spine Across the Sea. July, 2009; Maui, Hawaii.
430. Guyer RD: The Paradox in Orthopaedics Today - Exciting Technology and Economic Challenges. China International Congress of Orthopaedics. August, 2009; Beijing, China.
431. Guyer RD: The Educational Training and Residency Programs of Orthopaedic Surgeons in the United States. China International Congress of Orthopaedics. August, 2009; Beijing, China.
432. Patel N, Marchetti J, Verma-Kurvari S, Ohnmeiss DD, Lankford C: Relationship of EMG Findings to Changes in Extremity and Axial Pain in Patients Undergoing Surgical Decompression Procedures. North American Spine Society. October, 2009; San Francisco, California.

433. Block A: New Directions in Pre-Surgical Psychological Screening (PPS). North American Spine Society. October, 2009; San Francisco, California.
434. Ohnmeiss DD: Statistical Methods for Study Design and Data Analysis. (Pre-Course: Section on Motion Technology). North American Spine Society. October, 2009; San Francisco, California.
435. Blumenthal S: Lumbar TDR. (Pre-Course: Section on Motion Technology). North American Spine Society. October, 2009; San Francisco, California.
436. Guyer RD: Economics of Motion Technology. (Pre-Course: Section on Motion Technology). North American Spine Society. October, 2009; San Francisco, California.
437. Darden B, Janssen M, Delamarter R, Goldstein J, Zigler J, Tay B, Murrey D: 5-Year Results of the Prospective, Randomized, Multicenter, FDA Investigational Device Exemption (IDE) ProDisc® -C TDR Clinical Trial. EuroSpine. October, 2009; Warsaw, Poland.
438. Bradley W, Hisey M, Ohnmeiss D: Clinical Outcome of a Minimally Invasive Trans-Sacral Approach to L5-S1 Interbody Fusion. Society for Minimally Invasive Spine Surgery. October, 2009; Las Vegas, Nevada.
439. Murrey D, Janssen M, Delamarter RB, Goldstein J, Zigler J, Tay B, Darden B: Five-Year Results of the Prospective, Randomized, Multicenter FDA Investigational Device Exemption (IDE) ProDisc®-C TDR Clinical Trial. North American Spine Society. November, 2009; San Francisco, California.
440. Murrey D, Janssen ME, Delamarter RB, Goldstein JA, Zigler JE, Tay B, Darden B: 5-Year Results of the Prospective, Randomized, Multicenter FDA Investigational Device Exemption (IDE) ProDisc®-C TDR Clinical Trial. Cervical Spine Research Society. December, 2009; Salt Lake City, Utah.
441. Zigler JE, Blumenthal SL, Guyer RD, Atanasov A, Rodriguez M, Ohnmeiss DD: Comparison of Cervical Disc Replacement and Anterior Cervical Fusion: 24-month Results from Five Prospective Randomized Studies. Asia Pacific Spine Arthroplasty Society. January, 2010; Sanya, China.
442. Zigler JE, Blumenthal SL, Guyer RD, Ohnmeiss DD: Analysis of Re-operations in Lumbar Total Disc Replacement: Experience with 900 Consecutive Cases Including First Case Experience. Asia Pacific Spine Arthroplasty Society. January, 2010; Sanya, China.
443. Hochschuler SH: Posterior Dynamic Stabilization. Asia Pacific Spine Arthroplasty Society. January, 2010; Sanya, China.
444. Blumenthal SL, Guyer RD: Anular Repair after Lumbar Discectomy: Preliminary Observations from an Ongoing, Prospective, Randomized, Controlled Clinical Trial. International Society for the Study of the Lumbar Spine. April, 2010; Auckland, New Zealand.
445. Blumenthal SL, Saqqa S, Guyer RD, Zigler JE, Ohnmeiss DD: Hybrid Combined Total Disc Replacement and Fusion Procedures in the Lumbar Spine: Clinical and Radiographic Outcome. Spine Society of Australia. April, 2010; Christchurch, New Zealand.

446. Raley T, Gertzen PC, Tobler WD, Aryan HE, Ames CP, Bradley WD: Long-Term Prospective Multi-Center Clinical Cohort Evaluation of the AxiaLIF® Procedure. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
447. Zigler JE, Delamarter R, Balderston RA, Spivak JM, Linovitz RJ, Zucherman JF, Yue JJ, Haider TT, Kitchel SH, Cammisa FP, Danielson GO, Geiger D, Watkins R, Yuan H, Sherman JE, Herkowitz HN, Kropf MA, Goldstein JA: 5-Year Results of the Prospective, Randomized, Multicenter Food and Drug Administration Investigational Device Exemption Study of the ProDisc®-L Total Disc Replacement versus Circumferential Fusion for the Treatment of 2-Level Degenerative Disc Disease. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
448. Guyer RD, Blumenthal SL, Bailey A, Amundson G, Chedid M, Gerdes JS, Messer J, Griffith S: Preliminary Observations from a Prospective, Multi-Center, Randomized, Controlled Clinical Trial Evaluating Annular Repair after Lumbar Discectomy. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
449. Delamarter R, Murrey D, Darden B, Janssen M, Goldstein JA, Zigler JE, Tay KB: 5-Year Results of the Prospective, Randomized, Multicenter Food and Drug Administration Investigational Device Exception ProDisc®-C Clinical Trial. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
450. Zigler JE, Atanasov AM, Ohnmeiss DD, Blumenthal SL, Guyer RD, Hisey MS: A Prospective Randomized Comparison of Cervical Disc Replacement and Anterior Cervical Fusion: Combined Results from Five FDA IDE Trials from a Single Site. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
451. Ohnmeiss DD, Hume CS, Guyer RD, Zigler JE, Blumenthal SL: Cost Comparison of Total Disc Replacement vs. Fusion in Patients with Insurance Denial for Disc Replacement. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
452. Blumenthal SL, Rainey S, Ohnmeiss DD, Zigler JE, Guyer RD: Analysis of Adjacent Segment Re-Operation Following Lumbar Total Disc Replacement. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
453. Guyer RD, Lauryssen C, Coric D, Gordon C, Nunley P, Carmody C, Dimmig TA, Taylor W, Buckley R, Donner J, Rhee J, Gerszten PC, Tortolani PJ, Rappaport J, Knight RQ, Dix G, Foley KT, Bitan FD, Bains R, Herkowitz HN: Prospective, Randomized Study Comparing Cervical Total Disc Replacement to Anterior Cervical Fusion: Results from an FDA-Regulated IDE Trial. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
454. Blumenthal SL: Around the World Experience with Cervical and Lumbar Total Disc Replacement: North America. (Pre-course: Around the World Experience with Cervical and Lumbar Total Disc Replacement). Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
455. Guyer RD: TDR World Experience: Panel Discussion. (Pre-course: Around the World Experience with Cervical and Lumbar Total Disc Replacement). Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.

456. Lieberman IH: MIS Complications and Avoidance. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
457. Blumenthal SL: Complications and Avoidance in Osteoporotic Bone. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
458. Musante D, Guyer RD, Coric D, Gordon C, Nunley PD, Carmody C: Prospective, Randomized, Controlled, Multicenter FDA IDE Trial Comparing Cervical Total Disc Replacement to Anterior Cervical Fusion: 24-Month Follow-Up. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
459. Guyer RD, Pettine KA, Coric D, Nunley PD, Musante D: Direct Comparison of Two Lumbar Total Disc Replacement Devices: Results from a Prospective, Randomized, Multicenter FDA-Regulated Trial. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
460. Musante DB, Guyer RD, Coric D, Gordon C, Nunley P, Carmody C: Comparison of Radiographic Findings of Total Disc Replacement vs. Anterior Cervical Fusion: 24-Month Follow-Up from a Prospective, Randomized, Controlled, Multicenter Trial with 269 Patients. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
461. Ohnmeiss DD, Hume CS, Blumenthal SL, Guyer RD, Zigler JE: Cost Comparison of Total Disc Replacement versus Fusion in Patients with Insurance Denial for Disc Replacement. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
462. Hochschuler SH: Spine Centers of Excellence and the Future of Spine. Orthopaedic Institute of Chinese People's Liberation Army. September, 2010; Beijing, China.
463. Hochschuler SH: Dynamic Stabilization of the Spine. Orthopaedic Institute of Chinese People's Liberation Army. September, 2010; Beijing, China.
464. Guyer RD: Anterior Interbody Fusion. (Pre-course: Lumbar Interbody Fusion Technologies). North American Spine Society. October, 2010; Orlando, Florida.
465. Guyer RD: Lumbar TDR: Difficulties with Adoption 10 Years Later in the US. (Pre-course: Motion Preservation Technologies). North American Spine Society. October, 2010; Orlando, Florida.
466. Lieberman IH: Do we need alternate articulations for lumbar TDR? (Pre-course: Motion Preservation Technology). North American Spine Society. October, 2010; Orlando, Florida.
467. Blumenthal SL, Rainey S, Guyer RD, Zigler JE, Ohnmeiss DD: Analysis of Adjacent Segment Re-Operation Following Lumbar Total Disc Replacement. North American Spine Society. October, 2010; Orlando, Florida.
468. Guyer RD, Shellock J, Kugler C, Hisey MS, Bradley WD, Ohnmeiss DD: Indirect Decompression of Lumbar Spondylolisthesis using Anterior Lumbar Interbody Fusion and Minimally Invasive Pedicle Screw Fixation. North American Spine Society. October, 2010; Orlando, Florida.

469. Guyer RD, Pettine KA, Knight RQ, Dimmig TA, Coric D, McAfee PC, Gordon C, Cappuccino A, Buckley R, Nunley P, Geisler F, Peppers TA, Rappaport J, Laurysen C, Dix G, Cheng WK, Hu Serena, Lee YP, Bitan FD, Bains R: Direct Comparison of Two Lumbar Total Disc Replacement Devices: Results from a Prospective, Randomized, Multicenter FDA-Regulated Trial. North American Spine Society. October, 2010; Orlando, Florida.
470. Guyer RD, Pettine KA, Knight RQ, Dimmig TA, Coric D, McAfee PC, Gordon C, Cappuccino A, Buckley R, Nunley P, Geisler F, Peppers TA, Rappaport J, Laurysen C, Dix G, Cheng W, Hu S, Lee YP, Bitan FD, Bains R: Radiographic Comparison of Two Lumbar Total Disc Replacement Devices: Results from a Prospective, Randomized, Controlled Multicenter FDA-Regulated Trial. North American Spine Society. October, 2010; Orlando, Florida.
471. Guyer RD, Coric D, Gordon C, Nunley PD, Carmody C, Dimmig TA, Taylor W, Buckley R, Donner J, Laurysen C, Rhee J, Gerszten PC, Tortolani PJ, Rappaport J, Knight RQ, Dix G, Foley KT, Bitan FD, Bains R, Herkowitz HN: Prospective, Randomized, Multicenter Trial Comparing Cervical Total Disc Replacement to Anterior Cervical Fusion in 269 Patients: 24-Month Follow-Up. North American Spine Society. October, 2010; Orlando, Florida.
472. Musante DB, Coric D, Guyer RD, Gordon C, Nunley P, Carmody C, Dimmig TA, Taylor W, Buckley R, Donner J, Laurysen C, Rhee J, Gerszten PC, Tortolani PJ, Rappaport J, Knight RQ, Dix G, Foley KT, Bitan FD, Bains R, Herkowitz HN: Comparison of Radiographic Findings of Total Disc Replacement vs. Anterior Cervical Fusion: 24-Month Follow-Up from a Prospective, Randomized, Controlled, Multicenter Trial with 269 Patients. North American Spine Society. October, 2010; Orlando, Florida.
473. Ohnmeiss DD, Hume CS, Blumenthal SL, Guyer RD, Zigler JE: Cost Comparison of Total Disc Replacement vs. Fusion in Patients with Insurance Denial for Disc Replacement. North American Spine Society. October, 2010; Orlando, Florida.
474. Blumenthal SL, Zigler JE, Guyer RD, Ohnmeiss DD: Anterior Re-Operations at the Same Level Following Lumbar Total Disc Replacement. North American Spine Society. October, 2010; Orlando, Florida.
475. Zigler JE, Guyer RD, Blumenthal SL, Ohnmeiss DD: Analysis of Re-Operations after Lumbar Total Disc Replacement: Experience in 1,000 Consecutive Cases Beginning with First Case Experience of 11 Surgeons. North American Spine Society. October, 2010; Orlando, Florida.
476. Guyer RD, Blumenthal SL, Zigler JE, Hisey MS, Atanasov AM, Ohnmeiss DD: A Prospective Randomized Comparison of Cervical Disc Replacement and Anterior Cervical Fusion: Combined Results from Five FDA IDE Trials from a Single Site. North American Spine Society. October, 2010; Orlando, Florida.
477. Delamarter RB, Zigler JE: Results from the Prospective, Randomized, Multicenter IDE Study of 2-Level ProDisc®-L: Randomized Patients vs. Continued Access Patients at 2 Years. North American Spine Society. October, 2010; Orlando, Florida.

478. Shellock J, Guyer RD, Hisey MS, Bradley WD, Kugler C, Ohnmeiss DD: Indirect Decompression of Lumbar Spondylolisthesis using anterior lumbar interbody fusion and minimally invasive pedicle screw fixation. Society for Minimally Invasive Spine Surgery. November, 2010; Las Vegas, Nevada.
479. Guyer RD, Blumenthal SL, Zigler JE, Hisey MS, Atanasov AM, Ohnmeiss DD. A Prospective Randomized Comparison of Cervical Disc Replacement and Anterior Cervical Fusion: Combined Results from Five FDA IDE Trials from a Single Site Cervical. Spine Research Society. December, 2010; Charlotte, North Carolina.
480. Ohnmeiss DD, Thongtrangan I, Zigler JE, Guyer RD, Atanasov A. Health-Related Quality of Life: How Does Symptomatic Disc Degeneration and Its Treatment with Total Disc Replacement Compare to Other Medical Conditions? International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
481. Araghi A, Blumenthal SL, Guyer RD, Hochschuler SH, Ohnmeiss DD, Shellock J, Messer J. Outcome Associated with Closure of Anular Defects Following Lumbar Discectomy. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
482. Lieberman IH, Ohnmeiss DD. Robotic-Assisted Pedicle Screw Placement in Complex Spinal Surgery Cases: What was Learned from Our First 23 Patients. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
483. Duffy MF, Guyer RD, Zigler JE, Blumenthal SL, Saqqa S, Ohnmeiss DD. Treatment Options for Two-Level Symptomatic Disc Degeneration: Comparison of Total Disc Replacement, Fusion, and Hybrid. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
484. Zigler JE, Samocha Y, Guyer RD, Blumenthal SL, Ohnmeiss DD. Cervical Total Disc Replacement vs. Anterior Cervical Fusion: Data from Four Prospective, Randomized, Multicenter Trials. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
485. Bradley WD: Evidence for Fusion. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
486. Coric D, Nunley PD, Guyer RD, Dimming T, Carmody C, Gordon C, Laurysen C. Analysis of Adjacent Segment Degeneration: Results of a Prospective, Randomized Study Comparing Cervical Total Disc Replacement vs. Anterior Cervical Fusion. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
487. Hisey M, Bae HW, Davis R, Gaede S, Hoffman G, Kim K, Nunley P, Peterson D, Stokes J. Multi-Center, Prospective, Randomized, Controlled Investigational Device Exemption Study Comparing Mobi-C® Cervical Artificial Disc to Anterior Discectomy and Fusion in the Treatment of Symptomatic Degenerative Disc Disease in the Cervical Spine. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
488. Duffy MF: Marketing your Practice. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.

489. Ohnmeiss DD: Incorporating Research into your Practice. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
490. Araghi A: Advocacy. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
491. Guyer RD: Posterior Lumbar Fusion – Indications and Outcomes. International Meeting on Advanced Spine Technologies. July, 2011; Copenhagen, Denmark.
492. Guyer RD: Lumbar Disc Replacement – Long-term Follow-up. International Meeting on Advanced Spine Technologies. July, 2011; Copenhagen, Denmark.
493. Lieberman I: Pre-operative Planning and Robotic Guidance for Deformity Surgery. International Meeting on Advanced Spine Technologies. July, 2011; Copenhagen, Denmark.
494. Lieberman I: Pre-Operative Planning and Robotic Guidance for Deformity Surgery (part of symposium: Non-Fusion and MIS Alternatives in Adult Scoliosis). International Meeting on Advanced Spine Technologies. July, 2011; Copenhagen, Denmark.
495. Delamarter RB, Murrey DB, Janssen M, Zigler JE: 5 Year Reoperation Rates: Cervical Total Disc Replacement vs Fusion. Results of a Prospective, Randomized Clinical Trial. Congress of Neurological Surgeons. October, 2011; Washington, D.C.
496. Hisey MS, Bae HW, Davis R, Gaede S, Hoffman G, Kim K, Nunley PD, Peterson D, Rashbaum RF, Stokes J: Reduction in the Incidence of Adjacent Segment Degeneration at 2 Years: Results of a Multi-Center, Prospective, Randomized, Controlled Trial Comparing Mobi-C® Cervical Artificial Disc to Anterior Cervical Discectomy and Fusion. EuroSpine. October, 2011; Milan, Italy.
497. Davis RJ, Bae HW, Gaede S, Hisey MS, Hoffman G, Kim K, Nunley PD, Peterson D, Rashbaum R, Stokes J: Comparison of the Mobi C® Cervical Artificial Disc to Anterior Cervical Discectomy and Fusion in the Treatment of Symptomatic Cervical Degenerative Disc Disease at 2 Levels. EuroSpine. October, 2011; Milan, Italy.
498. Ohnmeiss DD, Blumenthal SL, Guyer RD: Investigating the Potential Effect of “Euphoric Bias” for the New Technology on Results of Randomized Lumbar Total Disc Replacement Trials. North American Spine Society. November, 2011; Chicago, Illinois.
499. Hisey MS, Bae H, Davis R, Hoffman G, Kim K, Nunley P, Peterson D: Multi-center, Prospective, Randomized, Controlled Investigational Device Exemption Study Comparing Mobi-C® Cervical Artificial Disc to Anterior Fusion in the Treatment of Symptomatic Cervical Degenerative Disc Disease. North American Spine Society. November, 2011; Chicago, Illinois.
500. Hisey MS, Bae H, Davis R, Hoffman G, Kim K, Nunley P, Peterson D: Does Total Disc Replacement Reduce the Incidence of Adjacent Segment Degeneration: Results of a Multi-center, Prospective, Randomized, Controlled Trial Comparing Mobi-C® Cervical Artificial Disc to Anterior Cervical Fusion. North American Spine Society. November, 2011; Chicago, Illinois.

501. Thongtrangan I, Ohnmeiss DD, Zigler JE, Guyer RD, Atanasov AM: Health-Related Quality of Life: How Does Symptomatic Disc Degeneration and Its Treatment with Total Disc Replacement Compare to Other Medical Conditions? North American Spine Society. November, 2011; Chicago, Illinois.
502. Zigler JE, Delamarter R: Five Year Follow-up of the ProDisc-L vs. Fusion IDE Patient Cohorts. North American Spine Society. November, 2011; Chicago, Illinois.
503. Murrey DB, Janssen M, Delamarter RB, Zigler J, Goldstein JA, Tay B, Darden B: Five-Year Results of the ProDisc-C Multi-Center Randomized Clinical Trial. Cervical Spine Research Society. December, 2011; Scottsdale, Arizona.
504. Hisey MS, Bae HW, Davis R, Gaede S, Hoffman G, Kim K, Nunley PD, Paterson D, Rashbaum R, Stokes J: Index and Adjacent Level Kinematics Following Cervical Arthroplasty: Results from a FDA Investigational Device Exemption Trial of Mobi-C Cervical Artificial Disc. Cervical Spine Research Society. December, 2011; Scottsdale, Arizona.
505. Zigler JE, Guyer RD, Blumenthal SL, Hisey MS, Atanasov A, Ohnmeiss DD: Total Disc Replacement vs. Anterior Cervical Fusion: Minimum 24-Month Follow-Up Data Combined from Six FDA IDE Trials at a Single Site. Cervical Spine Research Society. December, 2011; Scottsdale, Arizona.
506. Guyer RD: Evidence for Lumbar Arthroplasty. American Academy of Orthopaedic Surgeons. February, 2012; San Francisco, California.
507. Ohnmeiss DD, Block AR, Ben-Porath Y, Burchette D: Analyzing the Relationships between Pain, Patient Expectations, and Satisfaction Following Spine Surgery. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.
508. Zigler JE, Delamarter R, Glenn J: Five Year Adjacent Level Degenerative Changes Comparing Lumbar Total Disc Replacement to Circumferential Fusion in Patients with Single-level Disease in a Prospective Randomized Cohort Analysis. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.
509. Zigler JE, Delamarter R: Does 360° Lumbar Spinal Fusion Improve Long-term Clinical Outcomes after Failure of Conservative Treatment in Patients with Functionally Disabling Single Level Degenerative Lumbar Disc Disease? Results of 5 Year Postoperative Follow-up of 75 Patients. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.
510. Delamarter R, Zigler JE, Janssen M, Murrey D, Spivak J: Five to Seven-Year Results of the ProDisc-C Total Disc Replacement Multi-Center Randomized Controlled Clinical Trial. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.
511. Delamarter R, Zigler JE, Murrey D, Janssen M, Spivak J: 7-Year Reoperation Rates: Cervical Total Disc Replacement Vs. Fusion: Results from the FDA Prospective, Randomized Clinical Trial. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.

512. Blumenthal SL, Guyer RD, Ohnmeiss DD, Zigler JE: Comparison of Re-operations in Cervical Total Disc Replacement vs. Anterior Cervical Fusion: Results with Mean 48 Month Follow-up. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.
513. Zigler JE, Delamarter R: Does Two Level 360° Lumbar Spinal Fusion Improve Long-term Clinical Outcomes after Failure of Conservative Treatment in Patients with Functionally Disabling Two Level Degenerative Lumbar Disc Disease? Results of 5 Year Follow-up in 62 Randomized Postoperative Patients. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.
514. Morrison T, Guyer RD, Hisey MH, Atanasov A, Ohnmeiss DD, Zigler JE, Blumenthal SL: Clinical Outcome of Stand-alone Anterior Lumbar Interbody Fusion. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.
515. Araghi A, Davis R, Gaede S, Hisey M, Kim K, Nunley P, Stokes J: Increase in Segmental Lordosis After Total Disc Replacement with Mobi-C Cervical Artificial Disc®: Results from an FDA Regulated IDE Study. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.
516. Guyer RD, Ohnmeiss DD, Zigler JE, Blumenthal SL, Shivers J: Implementation of a Quality Assurance Program for Spine Surgery in a Multi-site Private Practice. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.
517. Guyer RD, Blumenthal SL, Hisey MS, Bradley WD, Ohnmeiss DD: Indirect Decompression of Lumbar Spondylolisthesis Using Anterior Lumbar Interbody Fusion and Minimally Invasive Pedicle Screw Fixation. Spine Society of Australia. April, 2012; Sydney, Australia.
518. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE: Comparison of Re-operations in Cervical Total Disc Replacement vs. Anterior Cervical Fusion: Results with Mean 48 Month Follow-up. Spine Society of Australia. April, 2012; Sydney, Australia.
519. Duffy MF, Guyer RD, Zigler JE, Blumenthal SL, Saqqa S, Ohnmeiss DD: Treatment Options for Two-Level Symptomatic Disc Degeneration: Comparison of Total Disc Replacement, Fusion, and Hybrid. SpineWeek - North American Spine Society Section. May, 2012; Amsterdam, The Netherlands.
520. Block AR, Ohnmeiss DD, Guyer RD, Atanasov A, Ben-Porath Y, Burchett D: Presurgical Psychological Screening: A New Algorithm, Including the MMPI-2-RF, for Predicting Spine Surgery Results. SpineWeek - International Society for the Study of the Lumbar Spine Section. May, 2012; Amsterdam, The Netherlands.
521. Davis R, Bae HW, Gaede S, Hisey MS, Hoffman G, Kim K, Nunley PD, Peterson D, Rashbaum RF, Stokes J: Radiographic Outcomes Including Adjacent Level Degeneration of FDA Investigational Device Trial Comparing Multi-Level Use of Mobi-C Cervical Artificial Disc® to Anterior Discectomy and Fusion. SpineWeek - EuroSpine Section. May, 2012; Amsterdam, The Netherlands.

522. Lieberman IH, Hu X: Use of Robotic Assisted Pedicle Screw Placement in Deformity and Revision Spine Surgery. International Meeting on Advanced Spine Techniques. July, 2012; Istanbul, Turkey.
523. Bradley WD, Edwards K, Hisey MS, Guyer RD, Zigler JE, Ohnmeiss DD: Extreme Lateral Interbody Fusion (XLIF): Clinical Results from One Center. Spine Across the Sea. July - August, 2012; Kauai, Hawaii.
524. Morrison T, Guyer RD, Atanasov A, Ohnmeiss DD, Zigler JE, Blumenthal SL: Clinical Outcome of Stand-Alone Anterior Lumbar Interbody Fusion. Spine Across the Sea. July - August, 2012; Kauai, Hawaii.
525. Ohnmeiss DD, Belanger TA, Duffy MF, Guyer RD, Blumenthal SL, Zigler JE: Impact of Cervical Symptoms on Ability to Participate in Recreational Activities. Spine Across the Sea. July - August, 2012; Kauai, Hawaii.
526. Block AR, Belanger TA, Ben-Porath Y, Atanasov A, Ohnmeiss DD: Workers' Compensation versus Non Workers' Compensation: Differences in Personality. Spine Across the Sea. July - August, 2012; Kauai, Hawaii.
527. Zigler JE, Janssen M, Delamarter R: Five-Year Results of the ProDisc-C Multi-Center Randomized Clinical Trial. Spine Across the Sea. July - August, 2012; Kauai, Hawaii.
528. Blumenthal SL, Guyer RD, Ohnmeiss DD, Zigler JE: Comparison of Re-operations in Cervical Total Disc Replacement vs. Anterior Cervical Fusion: Results with Mean 48 Month Follow-up. Spine Across the Sea. July - August, 2012; Kauai, Hawaii.
529. Block AR, Atanasov A, Ohnmeiss DD, Guyer RD, Burchett D: Workers' Compensation Versus Non Workers' Compensation Patients: Are There Personality Differences? North American Spine Society. October, 2012; Dallas, Texas.
530. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Impact of Cervical Symptoms on Ability to Participate in Recreational Activities. North American Spine Society. October, 2012; Dallas, Texas.
531. Zigler JE, Delamarter RB: Five Year Adjacent Level Degenerative Changes Comparing Lumbar Total Disc Replacement to Circumferential Fusion in Patients with Single-Level Disease in a Prospective Randomized Cohort Analysis. North American Spine Society. October, 2012; Dallas, Texas.
532. Zigler JE, Delamarter RB: Does 360° Lumbar Spinal Fusion Improve Long-Term Clinical Outcomes After Failure of Conservative Treatment in Patients With Functionally Disabling Single-Level Degenerative Lumbar Disc Disease? Results of 5 Year Postoperative Follow-Up of 75 Patients. North American Spine Society. October, 2012; Dallas, Texas.
533. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE: Comparison of Re-Operations in Cervical Total Disc Replacement vs. Anterior Cervical Fusion. North American Spine Society. October, 2012; Dallas, Texas.
534. Guyer RD: Stand-alone ALIF is a Good Solution for Single-Level Disease of the Lumbar Spine– Pro (Debate – part of Current Controversies in Spine Care and Surgery Symposium). North American Spine Society. October, 2012; Dallas, Texas.

535. Blumenthal SL: Does Cervical TDR Design Matter: A Clinical Perspective. (part of Lumbar Disc Replacement Symposium). North American Spine Society. October, 2012; Dallas, Texas
536. Guyer RD: Update on Lumbar TDR: The Future. (part of Lumbar Disc Replacement Symposium). North American Spine Society. October, 2012; Dallas, Texas.
537. Ohnmeiss DD: Psychological Influences on Medical Diagnostic Testing (part of The Psychology of Spine Surgery Symposium). North American Spine Society. October, 2012; Dallas, Texas.
538. Rashbaum RF: Psychology of the Spine Surgeon (part of The Psychology of Spine Surgery Symposium). North American Spine Society. October, 2012; Dallas, Texas.
539. Murrey DB, Zigler JE, Delamarter RB, Spivak JM, Janssen ME: Seven-Year Results of the ProDisc-C Multicenter Randomized Clinical Trial. North American Spine Society. October, 2012; Dallas, Texas.
540. Spivak JM, Delamarter RB, Murrey DB, Zigler JE, Janssen ME, Goldstein JA: Adjacent Level Radiographic Degenerative Changes Following Single-Level Artificial Disc Replacement or ACDF at Five- to Seven-Year Follow-Up. North American Spine Society. October, 2012; Dallas, Texas.
541. Davis RJ, Araghi A, Bae HW, Hisey MS, Nunley PD: Comparison of Outcomes After Treatment of Cervical Degenerative Disc Disease at One or Two Levels with Total Disc Replacement. North American Spine Society. October, 2012; Dallas, Texas.
542. Delamarter R, Zigler JE, Murrey DB, Janssen ME, Spivak JM: Seven-Year Reoperation Rates: Results of a Prospective Randomized Clinical Trial: Cervical Total Disc Replacement Versus Fusion North American Spine Society. October, 2012; Dallas, Texas.
543. Davis RJ, Araghi A, Bae HW, Hisey MS, Nunley PD: Investigational Device Exemption Trial of Cervical Arthroplasty for Treatment of Degenerative Disc Disease at Two Levels: 24-Month Results of 330 Subjects. North American Spine Society. October, 2012; Dallas, Texas.
544. Jawahar A, Nunley PD, Araghi A, Bae HW, Davis RJ, Hisey MS, Jackson RJ. Number of Levels Involved at Index Surgery Significantly Affects the Outcomes After Anterior Cervical Discectomy and Fusion: Analysis of Data from a Multicenter Prospective Randomized Controlled Trial North American Spine Society. October, 2012; Dallas, Texas.
545. Delamarter R, Zigler JE: Does Two-Level 360° Lumbar Spinal Fusion Improve Long-Term Clinical Outcomes After Failure of Conservative Treatment in Patients with Functionally Disabling Two-Level Degenerative Lumbar Disc Disease? Results of Five-Year Follow-Up in Fifty-Two Randomized Postoperative Patients. North American Spine Society. October, 2012; Dallas, Texas.
546. Davis RJ, Bae HW, Gaede SE, Hisey M, Hoffman G, Kim KD, Nunley PD: Reduction in the Incidence of Radiographically Identified Degeneration of Adjacent Segments: Results from a Multi-center, Prospective, Randomized, Controlled Trial Comparing Total Disc Replacement with Anterior Discectomy and Fusion for Treatment of Cervical Degenerative

- Disc Disease at Two Levels. Cervical Spine Research Society. December, 2012; Chicago, Illinois.
547. Spivak JM, Delamarter RB, Janssen ME, Murrey DB, Zigler JE: Adjacent Level Radiographic Degenerative Changes following Cervical Total Disc Replacement or Fusion: 5 to 7 year Follow Up. Cervical Spine Research Society. December, 2012; Chicago, Illinois.
 548. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE: Re-operations in Cervical Total Disc Replacement vs. Anterior Cervical Fusion: Mean 48 Month Follow-up. American Academy of Orthopaedic Surgeons. March, 2013; Chicago, Illinois.
 549. Zigler JE, Murrey DB, Delamarter RB, Spivak JM, Janssen M: Seven-year Results of the ProDisc-C Multi-center Randomized Clinical Trial. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
 550. Lieberman IH, Hu X: Restoration of Cervical Lordosis Is Associated with Improved Clinical Outcome in Anterior Cervical Discectomy and Fusion (ACDF) Patients. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
 551. Lieberman IH, Hu X: Accuracy of Robotic Assisted Pedicle Screw Placement in Deformity and Revision Spine Surgeries. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
 552. Guyer RD, Pettine K, Dimmig T, Coric D, Cappuccino A, Roh J: Five-year Follow-up of a Prospective, Randomized FDA IDE Trial Comparing Two Lumbar Total Disc Replacements: Clinical Outcome and Serum Ion Level Analysis for a Metal-on-Metal. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
 553. Blumenthal SL, Zigler JE, Guyer RD, Ohnmeiss DD: Long-term Evaluation of Re-operation Rates for Lumbar Total Disc Replacement and Fusion: Analysis of 1,237 Patients. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
 554. Block A, Ben-Porath Y, Marek R, Ohnmeiss DD, Guyer RD: Relationship of Workers Compensation Status, Psychological Profiles, and Clinical Outcome: Results of a Prospective, Multicenter Study. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
 555. Bradley WD, Whang PG: Prospective, Randomized, Multicenter Study Comparing the Clinical Outcomes of Two Minimally Invasive Interspinous Devices for the Treatment of Lumbar Spinal Stenosis. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
 556. Hisey MS, Bonsignore C, Bradley WD, Verma-Kurvari S, Ohnmeiss DD: Clinical Outcome Following a Minimally Invasive Lumbar Decompression Technique for the Treatment of Lumbar Spinal Stenosis. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.

557. Guyer RD, Shivers J, Ohnmeiss DD, Zigler JE: Implementation and Impact of Pre-operative Peer Case Review in a Spine Practice. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
558. Ohnmeiss DD: The Fate of Prospective Spine Studies Posted on ClinicalTrials.gov. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
559. Morrison T, Hu X, Lieberman IH: The Relationship between Pre-op ESR and CRP Level and Spine Surgery Infections. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
560. Delamarter RB, Zigler JE, Murrey D, Janssen M, Spivak J: 7-year Reoperation Rates: Results of a Prospective, Randomized Clinical Trial: Cervical Total Disc Replacement vs. Fusion. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
561. Guyer RD: Defining Value in Medicine - Why it Matters (part of symposium: Value in Spine Care: How Do We Show How Good We Are?). International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
562. Ohnmeiss DD: The Fate of Prospective Spine Studies Posted on ClinicalTrials.gov. International Society for the Study of the Lumbar Spine. May, 2013; Scottsdale, Arizona.
563. Blumenthal SL, Zigler JE, Guyer RD, Ohnmeiss DD: Long-term Evaluation of Re-operation Rates for Lumbar Total Disc Replacement and Fusion: Analysis of 1,237 Patients. International Society for the Study of the Lumbar Spine. May, 2013; Scottsdale, Arizona.
564. Guyer RD, Pettine K, Dimmig T, Coric D, Cappuccino A, Roh J: Five-year Follow-up of a Prospective, Randomized FDA IDE Trial Comparing Two Lumbar Total Disc Replacements: Clinical Outcome and Serum Ion Level Analysis for a Metal-on-Metal. International Society for the Study of the Lumbar Spine. May, 2013; Scottsdale, Arizona.
565. Block A, Ben-Porath Y, Marek R, Ohnmeiss DD, Guyer RD: Relationship of Workers Compensation Status, Psychological Profiles, and Clinical Outcome: Results of a Prospective, Multicenter Study. International Society for the Study of the Lumbar Spine. May, 2013; Scottsdale, Arizona.
566. Hu X, Lieberman IH: Restoration of Cervical Lordosis is Associated with Improved Clinical Outcome in One or Two Level Anterior Cervical Discectomy and Fusion (ACDF) Patients. IMAST (International Meeting in Advanced Spine Technologies). July, 2013; Vancouver, Canada.
567. Guyer RD, Pettine K, Dimmig T, Coric D, Cappuccino A, Roh J: Five-year Follow-up of a Prospective, Randomized FDA IDE Trial Comparing Two Lumbar Total Disc Replacements: Clinical Outcome and Serum Ion Level Analysis for a Metal-on-Metal. North American Spine Society. October, 2013; New Orleans, Louisiana.
568. Blumenthal SL, Zigler JE, Guyer RD, Ohnmeiss DD: Long-term Evaluation of Re-operation Rates for Lumbar Total Disc Replacement and Fusion: Analysis of 1,237 Patients. North American Spine Society. October, 2013; New Orleans, Louisiana.

569. Bae HW, Davis RJ, Hoffman GA, Rashbaum RF, Nunley PD: Comparison of Outcomes Up to 48 Months After One- or Two-Level Total Disc Replacement: Results from an Investigational Device Exemption Trial. North American Spine Society. October, 2013; New Orleans, Louisiana.
570. Radcliff K, Zigler JD, Zigler JE: Costs of Cervical Disc Replacement Versus Anterior Cervical Discectomy and Fusion for Treatment of Single-Level Cervical Disc Disease: An Analysis of the Blue Health Intelligence Database for Acute and Long-Term Costs and Complications. North American Spine Society. October, 2013; New Orleans, Louisiana.
571. Ohnmeiss DD: Outcome Assessments: The Good, the Bad and the Ugly. Data Collection, Value and Cost-Effectiveness of Spine Care (Symposium). North American Spine Society. October, 2013; New Orleans, Louisiana.
572. Shivers J: The Advantages of Aligning Stakeholder Expectations. Surgical Success: Aligning Expectations. (Symposium) North American Spine Society. October, 2013; New Orleans, Louisiana.
573. Shivers J: How the Surgical and Perioperative Team Can Influence the Surgical Outcome. (Symposium) North American Spine Society. October, 2013; New Orleans, Louisiana.
574. Shivers J: How the Non-provider/Non-medical Stakeholders Can Influence the Surgical Outcome. (Symposium) North American Spine Society. October, 2013; New Orleans, Louisiana.
575. Guyer RD: Monitoring Quality of Surgical Care in Your Clinic. Data Collection, Value and Cost-Effectiveness of Spine Care (Symposium). North American Spine Society. October, 2013; New Orleans, Louisiana.
576. Ohnmeiss DD: The Benefits of Intra- and Trans-Institutional Data Pooling. Collaborative Concepts in Spine Care: Outcomes Assessment in the New Vernacular of Value (Symposium). North American Spine Society. October, 2013; New Orleans, Louisiana.
577. Henry SM: Cervical Spine Injuries in Sports. American Osteopathic Academy of Orthopedics. October, 2013; San Diego, California.
578. Radcliff KE, Zigler JD, Zigler JE: Costs of Cervical Disc Replacement versus Anterior Cervical Discectomy and Fusion for Treatment of Single-Level Cervical Disc Disease: An Analysis of the Blue Health Intelligence Database for Acute Long-Term Costs and Complications. Cervical Spine Research Society (best paper award). December, 2013; Los Angeles, California.
579. Blumenthal SL: Introduction. Symposium: Cervical Arthroplasty: Is It Now the Gold Standard for Herniated Disc? International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
580. Guyer RD: TDR in North America. Symposium: Cervical Arthroplasty: Is It Now the Gold Standard for Herniated Disc? International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
581. Hisey M, Davis R, Hoffman G, Bae HW, Kim KD, Gaede SE, Nunley P: Sagittal Alignment of One-level TDR and ACDF Patients: An Analysis of Patient Outcomes from a

- Randomized, Prospective, Clinical Trial. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
582. Davis R, Hoffman G, Bae HW, Hisey M, Kim KD, Gaede SE, Nunley P: Sagittal Alignment of Two-level TDR Patients: An Analysis of Patient Outcomes from an FDA IDE Randomized, Prospective, Clinical Trial. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
 583. Hisey M, Davis R, Hoffman G, Bae HW, Kim KD, Gaede SE, Nunley P: Cervical Total Disc Replacement versus ACDF: Results from a FDA IDE Clinical Trial through 48 Months. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
 584. Davis R, Hoffman G, Bae HW, Hisey M, Kim KD, Gaede SE, Nunley P: Two-level Cervical Total Disc Replacement versus ACDF: Results of a Prospective, Randomized, Clinical Trial with 48 Months Follow-up International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
 585. Bae HW, Davis R, Hoffman G, Hisey M, Kim KD, Gaede SE, Nunley P: One-level versus Two-level Cervical Disc Arthroplasty: Comparative Results from a FDA IDE Clinical Trial with Four-year Follow-up International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
 586. Coric D, Guyer RD, Nunley P, Musante D, Boltes MO: Kineflex|C Cervical Arthroplasty: Long-term Clinical and Radiographic Outcomes from a Prospective, Randomized IDE Study. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
 587. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE; The Re-operation Rate in a Single Dataset Varies Significantly Depending on the Definitions Applied. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
 588. Garcia R, Yue JY, Blumenthal SL: 2 Year Results of a Prospective, Randomized, Multicenter Investigational Device Exemption Study of the Activ-L Total Disc Replacement for the Treatment of Single Level Degenerative Disc Disease. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
 589. Holman PJ, Hu X, Staub B, Lieberman IH: Sacro-pelvic Fixation Using the S2 Alar-Iliac (S2AI) Screws in Adult Deformity Patients: Experiences with Two Different Navigation Techniques. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
 590. Lieberman IH, Hu X: Does Intrawound Application of Vancomycin Powder Decrease Surgical Site Infections in Posterior Degenerative Spine Surgeries? International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
 591. Beihn J, Shellock J, Ohnmeiss DD, Guyer RD, Zigler JE: Use of Amniotic Membrane Anti-adhesion Barrier for Lumbar Discectomy. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.

592. Hu X, Lieberman IH: Accuracy and Learning Curve of Robotic Assisted Pedicle Screw Placement in Spine Surgery. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.

Posters

1. Sachs BL, Vanharanta H, Rashbaum RF, Guyer RD, Hochschuler SH, Ohnmeiss DD, Schwartz P, Gilbert PJ: Objective Signs of Lumbar Radicular Syndrome in Conservative Treatment. International Society for the Study of the Lumbar Spine. June, 1986; Dallas, Texas.
2. Hochschuler SH, Guyer RD, Rashbaum RF: Proplast Reconstruction of the Iliac Crest for Anterior Lumbar Interbody Fusions and Anterior Cervical Fusions. International Society for the Study of Lumbar Spine. June, 1986; Dallas, Texas.
3. Vanharanta H, Sachs BL, Spivey M, Guyer RD, Rashbaum RF, Hochschuler SH, Ohnmeiss DD: Comparison of Disc Narrowing with Discographic Degenerative Changes and Pain Provocation. International Society for the Study of the Lumbar Spine. May, 1987; Rome, Italy.
4. Sachs BL, Vanharanta H, Rashbaum RF, Guyer RD, Hochschuler SH, Ohnmeiss DD, Schwartz P, Gilbert PJ: Comparison of Effect of Epidural Steroids and Physical Therapy on Root Tension Signs in Lumbar Radicular Syndrome. North American Spine Society. June, 1987; Banff, Canada.
5. Vanharanta H, Mooney V, Jarvis GL, Hochschuler SH, Guyer RD, Johnson RG, Gilbert PJ, Ritz S, Ohnmeiss DD, Stith WJ: Effect of Repeated Trunk Extension and Flexion Movements on CT/Discogram. North American Spine Society. June, 1987; Banff, Canada.
6. Hochschuler SH, Rashbaum RF, Guyer RD, Stith WJ, Ohnmeiss DD: Proplast Reconstruction of Iliac Crest Defects. North American Spine Society. June, 1987; Banff, Canada.
7. Vanharanta H, Sachs BL, Spivey M, Guyer RD, Rashbaum RF, Hochschuler SH, Ohnmeiss DD: Comparison of Disc Narrowing with Discographic Degenerative Change and Pain Provocation. American Academy of Orthopaedic Surgeons. February, 1988; Atlanta, Georgia.
8. Vanharanta H, Sachs BL, Aprill C, Spivey M, Ohnmeiss DD, Rashbaum RF, Hochschuler SH, Guyer RD, Videman T, Terry A, Selby D, Stith WJ, Mooney V: Disc Deterioration in Low Back Syndromes: A Prospective Multi-center CT/Discography Study. International Society for the Study of the Lumbar Spine. April, 1988; Bal Harbour, Florida.
9. Ohnmeiss DD, Stith WJ, Guyer RD, Rashbaum RF, Hochschuler SH, Loguidice VA, Lonstein M: Comparison of Results of Lumbar Anterior Interbody Fusion, Posterior Fusion, Instrumentation and 360° Fusion Performed by the Same Group of Surgeons. International Society for the Study of the Lumbar Spine. April, 1988; Bal Harbour, Florida.

10. Shea D, Stith WJ, Ohnmeiss DD, Hochschuler SH, Guyer RD, Rashbaum RF: The Effect of Sensory Deprivation on the Reduction of Pain in Chronic Low Back Patients. International Society for the Study of the Lumbar Spine. April, 1988; Bal Harbour, Florida.
11. Vanharanta H, Ohnmeiss DD, Stith WJ, Hochschuler SH, Guyer RD, Mooney V: Effect of Repeated Trunk Extension and Flexion Movements As Seen By CT/Discography. International Society for the Study of the Lumbar Spine. April, 1988; Bal Harbour, Florida.
12. Vanharanta H, Sachs BL, Aprill C, Spivey M, Ohnmeiss DD, Rashbaum RF, Hochschuler SH, Guyer RD, Videman T, Stith WJ, Mooney V: CT/Discography and Pain Response in Different Age Groups. North American Spine Society. July, 1988; Colorado Springs, Colorado.
13. Guyer RD, Ohnmeiss DD, Stith WJ, Hochschuler SH, Rashbaum RF, Loguidice VA, Lonstein M: Comparison of Results of Lumbar Anterior Interbody Fusion, Posterior Fusion, Instrumentation and 360° Fusion Performed by the Same Group of Surgeons. North American Spine Society. July, 1988; Colorado Springs, Colorado.
14. Guyer RD, Ohnmeiss DD, Stith WJ, Hochschuler SH, Rashbaum RF, Lonstein M, Regan JJ: An Analysis of the Effect of Repeat Discography. North American Spine Society. July, 1988; Colorado Springs, Colorado.
15. Ohnmeiss DD, Vanharanta H, Stith WJ, Carranza CB, Guyer RD, Rashbaum RF, Hochschuler SH: Radiographic Muscle Density and Increased Function Following an Active Rehabilitation Program. International Society for the Study of the Lumbar Spine. May, 1989; Kyoto, Japan.
16. Guyer RD, Vanharanta H, Ohnmeiss DD, Stith WJ, Sachs BL, Hochschuler SH, Rashbaum RF: Validity of Myelography and CT/Discographic Images in Identifying Clinically Painful Disc Lesions. North American Spine Society. June, 1989; Quebec City, Canada.
17. Lonstein ML, Guyer RD, Ohnmeiss DD, Stith WJ, Hochschuler SH, Rashbaum RF: Posterior Lumbar Fusion and Instrumentation. North American Spine Society. June, 1989; Quebec City, Canada.
18. Vanharanta H, Ohnmeiss DD, Stith WJ, Guyer RD, Hochschuler SH, Rashbaum RF, Sachs BL: The Effect of Lumbar Level in Painful Disc Deterioration. North American Spine Society. June, 1989; Quebec City, Canada.
19. Ohnmeiss DD, Vanharanta H, Stith WJ, Carranza CB, Guyer RD, Rashbaum RF, Hochschuler SH: Radiographic Muscle Density and Increased Function Following an Active Rehabilitation Program. North American Spine Society. June, 1989; Quebec City, Canada.
20. Vanharanta H, Ohnmeiss DD, Stith WJ, Guyer RD, Hochschuler SH, Rashbaum RF, Sachs BL: Sensitivity and Specificity of CT/Discography. North American Spine Society. June, 1989; Quebec City, Canada.
21. Shea DD, Ohnmeiss DD, Stith WJ, Rashbaum RF, Guyer RD, Hochschuler SH: The Effects of Sensory Deprivation on Muscle Activity and Pain Reduction in Chronic Low Back Pain Patients. North American Spine Society. June, 1989; Quebec City, Canada.

22. Guyer RD, Hochschuler SH, Ohnmeiss DD, Rashbaum RF, Regan JJ, Stith WJ: Initial Results and Complications of Pedicle Screw Fixation. Scoliosis Research Society/North American Spine Society joint conference on Advanced Pedicle Fixation of the Lumbar Spine. March, 1990; Dallas, Texas.
23. Guyer RD, Vanharanta H, Ohnmeiss DD, Stith WJ, Sachs BL, Hochschuler SH, Rashbaum RF: Validity of Myelographic and CT/Discographic Images in Identifying Clinically Painful Disc Lesions. International Association for the Study of Pain. April, 1990; Australia.
24. Ritz S, Lorren T, Ohnmeiss DD, Stith WJ: Repeatability of Sub-maximal Isokinetic Trunk Strength Testing. International Isokinetic Congress. May, 1990; Washington, D.C.
25. Guyer RD, Vanharanta H, Ohnmeiss DD, Stith WJ, Hochschuler SH, Rashbaum RF, Regan JJ: The Relationship Between Pain Drawings and CT/Discographic Findings. International Society for the Study of the Lumbar Spine. May, 1990; Boston, Massachusetts.
26. Guyer RD, Ohnmeiss DD, Hochschuler SH, Stith WJ, Rashbaum RF, Regan JJ: The Use of CT/Discography to Identify Recurrent Disc Herniation Not Visualized by Gadolinium Enhanced MRI. International Society for the Study of the Lumbar Spine. June, 1990; Boston, Massachusetts.
27. Hochschuler SH, Guyer RD, Ohnmeiss DD, Stith WJ, Rashbaum RF, Regan JJ: Anterior Lumbar Interbody Fusion with Composite Bone-Bank Bone. International Society for the Study of the Lumbar Spine. June, 1990; Boston, Massachusetts.
28. Hochschuler SH, Guyer RD, Ohnmeiss DD, Stith WJ, Rashbaum RF, Regan JJ: Anterior Lumbar Interbody Fusion Using Donor Femur Bone Grafts. North American Spine Society. August, 1990; Monterey, California.
29. Hochschuler SH, Guyer RD, Ohnmeiss DD, Glisan B, Sheets C, Evans D, Stith WJ, Rashbaum RF, Regan JJ: The Effects of Wearing an Abdominal Support Belt on the Amount of Weight Lifted by Low Back Pain Patients. North American Spine Society. August, 1990; Monterey, California.
30. Guyer RD, Hochschuler SH, Ohnmeiss DD, Rashbaum RF, Regan JJ, Stith WJ: Initial Results and Complications of Pedicle Screw Fixation. North American Spine Society. August, 1990; Monterey, California.
31. Guyer RD, Ohnmeiss DD, Hochschuler SH, Stith WJ, Rashbaum RF, Regan JJ: The Use of CT/Discography to Identify Recurrent Disc Herniation Not Visualized by Gadolinium Enhanced MRI. North American Spine Society. August, 1990; Monterey, California.
32. Vanharanta H, Guyer RD, Ohnmeiss DD, Hochschuler SH, Rashbaum RF, Stith WJ: The Number of Painful and Degenerated Lumbar Discs Levels in Low Back Pain Patients. North American Spine Society. August, 1990; Monterey, California.
33. Guyer RD, Vanharanta H, Ohnmeiss DD, Stith WJ, Hochschuler SH, Rashbaum RF, Regan JJ: The Relationship Between Pain Drawings and CT/Discographic Findings. North American Spine Society. August, 1990; Monterey, California.

34. Guyer RD: Arthroscopic Microdiscectomy. North American Spine Society Instructional Course. August, 1990; Monterey, California.
35. Guyer RD, Hochschuler SH, Ohnmeiss DD, Rashbaum RF, Regan JJ, Stith WJ: Initial Results and Complications Associated with the Wiltse Pedicle Screw Fixation System. American Academy of Orthopaedic Surgeons. March, 1991; Anaheim, California.
36. Guyer RD, Ohnmeiss DD, Hochschuler SH, Stith WJ, Rashbaum RF, Regan JJ: The Use of CT/Discography to Identify Recurrent Disc Herniation Not Visualized by Gadolinium Enhanced MRI. American Academy of Orthopaedic Surgeons. March, 1991; Anaheim, California.
37. Hochschuler SH, Guyer RD, Castleman C, Ohnmeiss DD, Stith WJ, Spivey MA, Rashbaum RF, Regan JJ: Cine MRI to Visualize Functional Pathology in the Spine. American Academy of Orthopaedic Surgeons. March, 1991; Anaheim, California.
38. Hochschuler SH, Guyer RD, Ohnmeiss DD, Rashbaum RF, Regan JJ: Single-level Stabilization with Femur Grafts. International Society for the Study of the Lumbar Spine. May, 1991; Heidelberg, Germany.
39. Hochschuler SH, Guyer RD, Castleman C, Ohnmeiss DD, Stith WJ, Spivey MA, Rashbaum RF, Regan JJ: Cine MRI to Visualize Functional Pathology in the Spine. International Society for the Study of the Lumbar Spine. May, 1991; Heidelberg, Germany.
40. Rashbaum RF, Ohnmeiss DD, Stith WJ, Bogdanffy GM, Guyer RD, Hochschuler SH, Regan JJ: Initial Results of Spinal Cord Stimulation in Chronic Pain Patients. International Society for the Study of the Lumbar Spine. May, 1991; Heidelberg, Germany.
41. Bogdanffy GM, Ohnmeiss DD: Strength Testing in Elite Competitive Cyclists. National Strength and Conditioning Association. June, 1991; St. Louis, Missouri.
42. Hochschuler SH, Guyer RD, Ohnmeiss DD, Stith WJ, Rashbaum RF, Regan JJ: Comparison of Single Level Arthroscopic Microdiscectomy to Laminectomy and Discectomy. North American Spine Society. August, 1991; Keystone, Colorado.
43. Hochschuler SH, Guyer RD, Ohnmeiss DD, Rashbaum RF, Regan JJ: Single-level Stabilization with Femur Grafts. North American Spine Society. August, 1991; Keystone, Colorado.
44. Rashbaum RF, Ohnmeiss DD, Stith WJ, Guyer RD, Hochschuler SH, Regan JJ: Initial Results of Spinal Cord Stimulation in Chronic Pain Patients. North American Spine Society. August, 1991; Keystone, Colorado.
45. Guyer RD, Hochschuler SH, Ohnmeiss DD, Stith WJ, Spivey MA, Castleman C, Rashbaum RF, Regan JJ: Cine MRI to Visualize Functional Pathology in the Spine. North American Spine Society. August, 1991; Keystone, Colorado.
46. Guyer RD, Ohnmeiss DD, Stith WJ, Bonnick SL, Hochschuler SH, Rashbaum RF, Regan JJ: Changes in Vertebral Bone Density Following Lumbar Spine Fusion and Post-operative Bracing. North American Spine Society. August, 1991; Keystone, Colorado.
47. Regan JJ, Shelokov AP: Use of the Texas Scottish Rite Hospital System Anteriorly in Adult Scoliosis. North American Spine Society. August, 1991; Keystone Colorado.

48. Guyer RD, Hochschuler SH, Ohnmeiss DD, Stith WJ, Spivey MA, Castleman C, Rashbaum RF, Regan JJ: Dynamic MRI: A New Technique to Identify Functional Pathology in the Spine. Cervical Spine Research Society. December, 1991; Philadelphia, Pennsylvania.
49. Hochschuler SH, Guyer RD, Ohnmeiss DD, Stith WJ, Rashbaum RF, Regan JJ: Comparison of Single Level Arthroscopic Microdiscectomy to Laminectomy and Discectomy. American Academy of Orthopaedic Surgeons. February, 1992; Washington, D.C.
50. Bogdanffy GM, Ohnmeiss DD, Griffith SL, Rashbaum RF: Changes in Isometric Quadriceps Function Following Spinal Cord Stimulation for Intractable Leg Pain. American College of Sports Medicine. May, 1992; Dallas, Texas.
51. Regan JJ, Shelokov AP, Guyer RD, Hochschuler SH, Rashbaum RF: Correction of Lumbar Scoliosis in Adults Using the Texas Scottish Rite Hospital System Anteriorly. International Society for the Study of the Lumbar Spine. May, 1992; Chicago, Illinois.
52. Floyd T, Hochschuler SH, Vanharanta H, Ohnmeiss DD, Guyer RD: The Relationship of Facet Tropism to Degenerative Disc Disease. International Society for the Study of the Lumbar Spine. May, 1992; Chicago, Illinois.
53. Bogdanffy GM, PM McKinley, Griffith SL, Ohnmeiss DD: Isokinetic Lumbar Flexion/Extension Torque in Elite and Competitive Cyclists. National Strength and Conditioning Association. June, 1992; Philadelphia, Pennsylvania.
54. Bogdanffy GM, Ohnmeiss DD, Guyer RD, Griffith SL: Bone Mineral Density Above a Multi-Segmental Lumbar Spinal Fusion. American Society for Bone and Mineral Research. September, 1992; Minneapolis, Minnesota.
55. Guyer RD, Hochschuler SH, Bogdanffy GM, Ohnmeiss DD: Early Changes in Pain and Physical Function Following Lumbar Spinal Fusion. International Society for the Study of the Lumbar Spine. June, 1993; Marseilles, France.
56. Perim DM, Guyer RD, Elliott FT, Ohnmeiss DD, Alfano S: Lumbar Laminectomy-Discectomy: Factors Associated with Increased Cost and Extended Treatment. International Society for the Study of the Lumbar Spine. June, 1993; Marseilles, France.
57. Yrjämä M, Vanharanta H, Ohnmeiss DD, Hochschuler SH, Guyer RD: Vibration of the Spinous Process Provokes Pain Similar to That Produced by Discography. North American Spine Society. October, 1993; San Diego, California.
58. Ohnmeiss DD, Vanharanta H, Guyer RD, Hochschuler SH: The Association Between Pain Drawings and Discordant Discographic Pain Reports. North American Spine Society. October, 1993; San Diego, California.
59. Ohnmeiss DD, Vanharanta H, Guyer RD, Hochschuler SH: The Relationship Between Pain Location and Disc Pathology: A Study of Pain Drawings and CT/Discography. North American Spine Society. October, 1993; San Diego, California.

60. Block AR, Vanharanta H, Ohnmeiss DD, Guyer RD, Hochschuler SH: Discordant CT/Discography Results: Psychological Factors Play a Role. North American Spine Society. October, 1993; San Diego, California.
61. Bogdanffy GM, Ohnmeiss DD, Griffith SL, Guyer RD: Non-Radiological Screening of Bone Quality for Spinal Fusion Candidates. North American Spine Society. October, 1993; San Diego, California.
62. Hochschuler SH, Griffith SL, Weinhover SL, Elliot FT: Compressive strength of hollow, allograft bone cylinders. North American Spine Society. October, 1993; San Diego, California.
63. Weinhover SL, Guyer RD, Herbert M, Griffith SL, Ohnmeiss DD: In-Vitro Intradiscal Pressure Measurements above a Simulated Instrumented Fusion. American Academy of Orthopaedic Surgeons. February, 1994; New Orleans, Louisiana.
64. Bogdanffy GM, Ohnmeiss DD, Guyer RD: Early Changes in Bone Mineral Density above a Combined Anterior-Posterior L4-S1 Lumbar Spinal Fusion In-Vivo. Orthopaedic Research Society. February, 1994; New Orleans, Louisiana.
65. Triano JJ: Motion Segment Bucking: An Evidence-based Hypothesis of the Mechanisms of Manipulation. International Conference of Spinal Manipulation. 1994; Palm Springs, California.
66. Ohnmeiss DD, Hochschuler SH, Guyer RD: Patient Selection Criteria for Laser Disc Decompression. International Society for the Study of the Lumbar Spine. June, 1994; Seattle, Washington.
67. Ohnmeiss DD, Vanharanta H, Estlander A, Jämsén A: The Relationship of Disability (Oswestry) and Pain Drawings to Functional Testing. International Society for the Study of the Lumbar Spine. June, 1994; Seattle, Washington.
68. Weinhover SL, Guyer RD, Griffith SL: In Vitro Intradiscal Pressure Measurements Above a Simulated Instrumented Fusion. International Society for the Study of the Lumbar Spine. June, 1994; Seattle, Washington.
69. Vanharanta H, Ohnmeiss DD, Guyer RD: The Value of Post-Discographic Lidocaine Injection. North American Spine Society. October, 1994; Minneapolis, Minnesota.
70. Ohnmeiss DD, Vanharanta H, Estlander A, Jämsén A: The Relationship of Disability (Oswestry) and Pain Drawings to Functional Testing. North American Spine Society. October, 1994; Minneapolis, Minnesota.
71. Weinhover SL, Griffith SL, Geiger J, Contiliano JH: Fatigue Strength of a New Anterior Cervical Spine Fixation System. North American Spine Society. October, 1994; Minneapolis, Minnesota.
72. Weinhover SL, Griffith SL, Geiger J: Unique Bone Screw Design Compares Favorably to Standard Bone Screw. North American Spine Society. October, 1994; Minneapolis, Minnesota.

73. Weinhoffer SL, Gertzbein SD: Biomechanical Testing Results for a New Thoracolumbar Anterior Surgical Device. North American Spine Society. October, 1994; Minneapolis, Minnesota.
74. Weinhoffer SL, Griffith SL, Geiger J: Biomechanical Testing of a New Anterior Cervical Spine Fixation System. North American Spine Society. October, 1994; Minneapolis, Minnesota.
75. Block AR, Vanharanta H, Ohnmeiss DD, Guyer RD, Hochschuler SH: Discordant CT/Discography Results: Psychological Factors Play a Role. American Pain Society. November, 1994; Orlando, Florida.
76. Vanharanta H, Ohnmeiss DD, Guyer RD: Are Lumbar Flexion-Extension Films Useful in Identifying Discogenic Pain? American Academy of Orthopaedic Surgeons. February, 1995; Orlando, Florida.
77. Bogdanffy GM, Ohnmeiss DD, Guyer RD: The Relationship between Isometric Leg Function and Pain Distribution. American College of Sports Medicine. June, 1995; Minneapolis, Minnesota.
78. Bogdanffy GM, Kime C, Guyer RD: Percutaneous Lumbar Discectomy: A Comparison of Two Nuclear Aspiration Systems *In Vitro*. North American Spine Society. October, 1995; Washington, D.C.
79. Regan JJ, Ohnmeiss DD, Thompson T, Griffith SL: Laparoscopic-Assisted Fusion of the Lumbar Spine: A Comparison to Open Procedures. North American Spine Society. October, 1995; Washington, D.C.
80. Griffith SL, Dalton JE, Weinhoffer SL: Biomechanical Evaluation of a Functional Artificial Disc with a Central Core of Ultra-High Molecular Weight Polyethylene. North American Spine Society. October, 1995; Washington, D.C.
81. Jarolem K, Ohnmeiss DD, Fulp T, Blumenthal SL: Unilateral PLIF/PLF Supplemented with Unilateral Fixation. Schriners Fellow Conference. November, 1995; New Orleans, Louisiana.
82. Mason SL, Shelokov AP, Guyer RD, Ohnmeiss DD: Complications of Cervical Discography: Findings in a Large Series. Cervical Spine Research Society. November-December, 1995; Santa Fe, New Mexico.
83. Guyer RD, Wealtz M: The Effect of Posterior Instrumentation on In Vitro Cervical Intradiscal Pressure. Cervical Spine Research Society. November-December, 1995; Santa Fe, New Mexico.
84. Vanharanta H, Aprill CN, Ohnmeiss DD: Vibration as a Diagnostic Tool for Lumbar Disease. American Academy of Orthopaedic Surgeons. February, 1996; Atlanta, Georgia.
85. Mason SL, Shelokov AP, Guyer RD, Ohnmeiss DD: Complications of Cervical Discography: Findings in a Large Series. American Academy of Orthopaedic Surgeons. February, 1996; Atlanta, Georgia.

86. Jarolem K, Ohnmeiss DD, Fulp T, Blumenthal SL: Results of Combined Posterior Interbody Fusion with Unilateral Posterolateral Fusion Supplemented with Unilateral Fixation. International Society for the Study of the Lumbar Spine. June, 1996; Burlington, Vermont.
87. Guyer RD, Ohnmeiss DD, Vanharanta H, Mason SL: Are Results of Lumbar and Cervical Discography Similar? International Society for the Study of the Lumbar Spine. June, 1996; Burlington, Vermont.
88. Gronblad M, Vanharanta H, Virri J, Rashbaum R, Guyer R, Rytomaa T, Karaharju EO: Cellular and Molecular Mechanisms in Degenerated Intervertebral Disc: An Immunohistochemical Study. International Society for the Study of the Lumbar Spine. June, 1996; Burlington, Vermont.
89. Ohnmeiss DD, Vanharanta H: Degree of Internal Disc Disruption Associated with Lower Extremity Pain. International Association for the Study of Pain. August, 1996; Vancouver, Canada.
90. Block AR, Ware D, Ohnmeiss DD, Guyer RD: Initial Results from a Psycho-Social Screening Package for Spine Surgery Candidates. International Association for the Study of Pain. August, 1996; Vancouver, Canada.
91. Ohnmeiss DD, Vanharanta H: Degree of Disc Disruption Associated with Lower Extremity Pain. North American Spine Society. October, 1996; Vancouver, Canada.
92. Block AR, Ware D, Ohnmeiss DD, Guyer RD: Initial Results from a Psycho-Social Screening Package for Spine Surgery Candidates. North American Spine Society. October, 1996; Vancouver, Canada.
93. Araghi A, Guyer RD, Fulp RT, Ohnmeiss DD, Blumenthal SL, Hochschuler SH, Regan JJ, Shelokov AP, Rashbaum RF: Use of Morphine Paste for Pain Control in Lumbar Laminectomies. Spine + Science + Management. November, 1996; New Orleans, Louisiana.
94. Cartwright TJ, Guyer RD, Ohnmeiss DD, Fulp RT, Mason SL: Results of Anterior Fusion for Equivocal Pathology Clarified by Discography. Spine + Science + Management. November, 1996; New Orleans, Louisiana.
95. Ohnmeiss DD, Vanharanta H: Degree of Disc Disruption Associated with Lower Extremity Pain. American Academy of Orthopaedic Surgeons. February, 1997; San Francisco, California.
96. Guyer RD, Ohnmeiss DD, Vanharanta H, Mason SL: Are Results of Lumbar and Cervical Discography Similar? American Academy of Orthopaedic Surgeons. February, 1997; San Francisco, California.
97. Regan JJ, Mack M, Aronoff RJ, Guyer, RD, Blumenthal, SL, Ahrens JE, Ohnmeiss DD: Development of Video-Assisted Thoracoscopic Spine Surgery. (Scientific Exhibit) at the American Academy of Orthopaedic Surgeons. February, 1997; San Francisco, California.

98. Cartwright TJ, Guyer RD, Ohnmeiss DD, Fulp RT, Mason SL: Results of Anterior Fusion for Equivocal Pathology Clarified by Discography. *Spine Across the Sea*. March, 1997; Hawaii.
99. Vanharanta H, Ohnmeiss DD, Aprill C: Can Vibratory Pain Provocation Improve the Specificity of MRI in the Diagnosis of Symptomatic Lumbar Disc Rupture? *Spine Across the Sea*. March, 1997; Hawaii.
100. Araghi A, Guyer RD, Fulp RT, Ohnmeiss DD, Blumenthal SL, Hochschuler SH, Regan JJ, Shelokov AP, Zigler JE, Rashbaum RF: Use of Morphine Paste for Pain Control in Lumbar Laminectomies. *International Society for the Study of the Lumbar Spine*. June, 1997; Singapore.
101. Triano JJ: An objective model for discriminating neck pain. *World Federation of Chiropractic/Japanese Chiropractic Society World Chiropractic Congress Scientific Symposium*. June, 1997; Tokyo, Japan.
102. Vanharanta H, Ohnmeiss DD, Aprill C: Can Vibratory Pain Provocation Improve the Specificity of MRI in the Diagnosis of Symptomatic Lumbar Disc Rupture? *North American Spine Society*. October, 1997; New York, New York.
103. McCracken K, Regan JJ: Balloon-assisted Endoscopic Retroperitoneal Spinal (BAERS) Approach: Preliminary Results. *North American Spine Society*. October, 1997; New York, New York.
104. Massoud B, Ohnmeiss DD, Rinn C, Guyer RD, Hochschuler SH, Rashbaum RF, Blumenthal SL, Zigler JE, Regan JJ, Fulp T: Results of Hardware Removal in the Lumbar Spine and the Role of Diagnostic Hardware Injection. *Spine + Science + Management*. November, 1997; New Orleans, Louisiana.
105. Hyde J, Ohnmeiss DD, Rinn C, Guyer RD, Rashbaum RF, Blumenthal SL, Zigler JE, Regan JJ, Fulp T: Anterior Cervical Fusion: Factors Related to Outcome. *Spine + Science + Management*. November, 1997; New Orleans, Louisiana.
106. Rinn C, Hyde J, Ohnmeiss DD, Ahrens JE: Femoral Bone Density Not Influenced by the Type of Scoliosis. *International Society for Clinical Densitometry*. January, 1998; Orlando, Florida.
107. Guyer RD: Inhibition of Postoperative Peridural Fibrosis with a Bioresorbable Carbohydrate Gel: ADCON-L. (Scientific Exhibit) *American Academy of Orthopaedic Surgeons*. March, 1998; New Orleans, Louisiana.
108. Hochschuler SH, Hyde J, Ohnmeiss DD: Posterior Lumbar Decompression and Fusion Using Local bone Graft and Spinal Fixation. *International Meeting on Advanced Spine Techniques*. May, 1998; Sorrento, Italy.
109. Ohnmeiss DD, Vanharanta H, Ekholm J: Relationship of Pain Drawings to Invasive Tests Assessing Intervertebral Disc Pathology. *International Society for the Study of the Lumbar Spine*. June, 1998; Brussels, Belgium.
110. Ohnmeiss DD: Repeatability of Pain Drawings in Low Back Pain Patients. *International Society for the Study of the Lumbar Spine*. June, 1998; Brussels, Belgium.

111. Regan JJ, Ohnmeiss DD, Risk D: Prospective Evaluation of Return to Work in a Lumbar Fusion Population. International Society for the Study of the Lumbar Spine. June, 1998; Brussels, Belgium.
112. Ahrens JA, Shelokov AP, Carver JL: Normal Joint Mobility is Maintained with an Artificial Disc Prosthesis. International Society for the Study of the Lumbar Spine. June, 1998; Brussels, Belgium.
113. Massoud B, Ohnmeiss DD, Rinn C, Guyer RD, Hochschuler SH, Rashbaum RF, Blumenthal SL, Zigler JE, Regan JJ, Fulp T: Results of Hardware Removal in the Lumbar Spine and the Role of Diagnostic Hardware Injection. North American Spine Society. October, 1998; San Francisco, California.
114. Floyd T, Ohnmeiss DD: A Meta-Analysis of Autograft versus Allograft in Anterior Cervical Fusion. North American Spine Society. October, 1998; San Francisco, California.
115. Blumenthal SL, Simpson N, Boehler S, Ohnmeiss DD, Risk DE: Anterior Lumbar Interbody Fusion Using Threaded Fusion Cages. North American Spine Society. October, 1998; San Francisco, California.
116. Triano JJ, Hansen DT, Rashbaum RF: Demand & Reward: Incentives to Provider/Payer Partnerships in Spine Care. North American Spine Society. October, 1998; San Francisco, California.
117. Sengupta D, Mulholland R, Ohnmeiss DD: Fulcrum Assisted Soft Stabilization in the Treatment of Activity Related Low Back Pain: A Feasibility Study. Spine + Science + Management. November, 1998; New Orleans, Louisiana.
118. Floyd T, Ohnmeiss DD: A Meta-Analysis of Autograft versus Allograft in Anterior Cervical Fusion. Cervical Spine Research Society. December, 1998; Atlanta, Georgia.
119. Regan JJ, Ohnmeiss DD, Risk D: Laparoscopic Anterior Lumbar Interbody Fusion: Analysis of Learning Curve and Comparison to Open Cage Procedures. International Society for the Study of the Lumbar Spine. June, 1999; Kona, Hawaii.
120. Sengupta D, Ohnmeiss DD, Hyde J, Zigler JE, Regan JJ, Hochschuler SH, Fulp T, Guyer RD: Intrasegmental Repair of Pars Defect – Early Results Using a Simple Technique. International Society for the Study of the Lumbar Spine. June, 1999; Kona, Hawaii.
121. Regan JJ, Aronoff RJ, Ohnmeiss DD, Sengupta D: Laparoscopic Approach to L4-5 for Interbody Fusion Using BAK Cages: Experience in the First 36 Cases. International Society for the Study of the Lumbar Spine. June, 1999; Kona, Hawaii.
122. Blumenthal SL, Simpson NS, Ohnmeiss DD, Risk DE, Boehler S, Guyer RD, Zigler JE, Fulp T, Hochschuler SH: Anterior Lumbar Interbody Fusion with Threaded Fusion Cages. International Society for the Study of the Lumbar Spine. June, 1999; Kona, Hawaii.
123. Sengupta D, Ohnmeiss DD, Guyer RD, Hochschuler SH: Biomechanical Evaluation of Immediate Stability with Rectangular vs. Cylindrical Interbody Fusion Cages in Stabilization of the Lumbar Spine. International Society for the Study of the Lumbar Spine. June, 1999; Kona, Hawaii.

124. Ohnmeiss DD: Repeatability of Pain Drawings in a Low Back Pain Population. International Association for the Study of Pain. August, 1999; Vienna, Austria.
125. Block AR, Guyer RD, Ohnmeiss DD: Use of Presurgical Psychosocial Screening to Predict Spine Surgery Outcome. International Association for the Study of Pain. August, 1999; Vienna, Austria.
126. Rashbaum RF, Ohnmeiss DD: Spinal Cord Stimulation for Predominant Complaints of Chronic Low Back Pain. International Association for the Study of Pain. August, 1999; Vienna, Austria.
127. Ohnmeiss DD, Blumenthal SL, Guyer RD, Zigler JE, Hochschuler SH: Analysis of Threaded Fusion Cage Subsidence. North American Spine Society. October, 1999; Chicago, Illinois.
128. Blumenthal SL, Regan JJ, Hisey MS, Ohnmeiss DD, Guyer RD, Hochschuler SH, Zigler JE: Can Threaded Fusion Cages Be Used Effectively As Stand-Alone Devices? North American Spine Society. October, 1999; Chicago, Illinois.
129. Sengupta D, Ohnmeiss DD, Guyer RD, Hochschuler SH: Biomechanical Evaluation of Immediate Stability with Rectangular vs. Cylindrical Interbody Fusion Cages in Stabilization of the Lumbar Spine. North American Spine Society. October, 1999; Chicago, Illinois.
130. Hochschuler SH, Ohnmeiss DD, Cranford M: Patient Acceptance of Telemedicine Used in a Spine Specialty Clinic. International Society for the Study of the Lumbar Spine. April, 2000; Adelaide, Australia.
131. Blumenthal SL, Hisey MS, Ohnmeiss DD, Regan JJ, Guyer RD, Hochschuler SH, Zigler JE: Can Threaded Fusion Cages Be Used Effectively as Stand-Alone Devices? International Society for the Study of the Lumbar Spine. April, 2000; Adelaide, Australia.
132. Ohnmeiss DD, Blumenthal SL, Guyer RD, Zigler JE, Hochschuler SH: Analysis of Threaded Fusion Cage Subsidence. International Society for the Study of the Lumbar Spine. April, 2000; Adelaide, Australia.
133. Rashbaum RF, Ohnmeiss DD: Spinal Cord Stimulation for Predominant Complaints of Chronic Low Back Pain. International Society for the Study of the Lumbar Spine. April, 2000; Adelaide, Australia.
134. Ohnmeiss DD, Blumenthal SL, Guyer RD, Hochschuler SH, Zigler JE: Can Foraminal Height be Increased and Maintained with Anterior Lumbar Interbody Fusion Using Cages? International Society for the Study of the Lumbar Spine. April, 2000; Adelaide, Australia.
135. Ohnmeiss DD, Blumenthal SL, Guyer RD, Hochschuler SH, Zigler JE: Can Foraminal Height be Increased and Maintained with Anterior Lumbar Interbody Fusion Using Cages? Spine Across the Sea. July, 2000; Kona, Hawaii.
136. Blumenthal SL, Hisey MS, Ohnmeiss DD, Regan JJ, Guyer RD, Hochschuler SH, Zigler JE: Can Threaded Fusion Cages Be Used Effectively as Stand-Alone Devices? Spine Across the Sea. July, 2000; Kona, Hawaii.

137. Hochschuler SH, Ohnmeiss DD, Cranford M: Patient Acceptance of Telemedicine Used in a Spine Specialty Clinic. *Spine Across the Sea*. July, 2000; Kona, Hawaii.
138. Sengupta D, Ohnmeiss DD, Hyde J, Zigler JE, Regan JJ, Hochschuler SH, Fulp T, Guyer RD: Intrasegmental Repair of Pars Defect – Results Using a Simple Technique. *Spine Across the Sea*. July, 2000; Kona, Hawaii.
139. Ohnmeiss DD, Blumenthal SL, Guyer RD, Zigler JE, Hochschuler SH: Analysis of Threaded Fusion Cage Subsidence. *Spine Across the Sea*. July, 2000; Kona, Hawaii.
140. Rashbaum RF, Ohnmeiss DD: Spinal Cord Stimulation for Predominant Complaints of Chronic Low Back Pain. *Pain and Neuromodulation: The New Millennium (in conjunction with the 9th World Congress: The Pain Clinic)*. July, 2000; San Francisco, California.
141. Rashbaum RF, Ohnmeiss DD: Spinal Cord Stimulation in the Treatment of Predominant Complaints of Intractable Low Back Pain. *North American Spine Society*. October, 2000; New Orleans, Louisiana.
142. Burton DC, Ohnmeiss DD, Blumenthal SL, Rashbaum RF, Zigler JE, Guyer RD, Regan JJ: Anterior Cervical Discectomy and Fusion with Allograft Bone and Plate Fixation. *North American Spine Society*. October, 2000; New Orleans, Louisiana.
143. Regan JJ, Ohnmeiss DD: Laparoscopic Lumbar Fusion: Single Surgeon Experience in 127 Consecutive Cases. *American Academy of Orthopaedic Surgeons*. March, 2001; San Francisco, California.
144. Sengupta DK, Ohnmeiss D, Webb J, Mulholland RC: Can Soft Stabilization in the Lumbar Spine Unload the Disc and Retain Mobility? – A Biomechanical Study with Fulcrum Assisted Soft Stabilization on a Cadaver Spine. *International Society for the Study of the Lumbar Spine*. June, 2001; Edinburgh, Scotland.
145. Regan JJ, Ohnmeiss DD, Hochschuler SH, Blumenthal SL, Guyer RD: Comparison of Laparoscopic to Mini-open Fusion at the L4-5 Level. *International Society for the Study of the Lumbar Spine*. June, 2001; Edinburgh, Scotland.
146. Guyer RD, McAfee PC, Hochschuler SH, Blumenthal SL, Fedder I, Ohnmeiss DD: Prospective Evaluation of the SB Charité III Disc Prosthesis. *North American Spine Society*. November, 2001; Seattle, Washington.
147. Tran V, Ohnmeiss DD, Blumenthal SL, Chang Y, Guyer RD, Zigler JE, Hochschuler SH, Hisey MS: Analysis of Re-Operations When Using Cages as Stand-Alone Devices: Minimum Three Year Follow-Up Study. *Spine + Science + Management*. November, 2001; New Orleans, Louisiana.
148. Henry S, Ohnmeiss DD, Guyer RD, Zigler JE, Chang Y, Rashbaum RF, Blumenthal SL: Outcome of Anterior Cervical Fusion for Discographically Proven Pain. *Spine + Science + Management*. November, 2001; New Orleans, Louisiana.
149. Triano JJ: Neck Loads during Spinal Manipulation. *Cervical Spine Research Society*. November, 2001; Monterey, California.

150. Ferrara LA, Zigler JE, Guyer RD: In Vitro Evaluation of Facet Motion Following Anterior Interbody Fusion. Congress of Neurological Surgeons. September-October, 2001; San Diego, California.
151. Block AR, Ohnmeiss DD: Cluster Analysis of MMPI Scores and Their Relationship to Spine Surgery Outcome. (Poster Award Winner) American Pain Society. March, 2002; Baltimore, Maryland.
152. Hochschuler SH, Ohnmeiss DD, Cranford M: Telemedicine: Back Pain Patients' Opinion. Meeting of the Americas. April, 2002; New York, New York.
153. Tran V, Ohnmeiss DD, Blumenthal SL, Chang Y, Guyer RD, Zigler JE, Hochschuler SH, Hisey MS, Rashbaum RF: Analysis of Re-Operations When Using Cages as Stand-Alone Devices: Minimum Three Year Follow-Up Study. Meeting of the Americas. April, 2002; New York, New York.
154. Henry S, Ohnmeiss DD, Guyer RD, Zigler JE, Chang Y, Rashbaum RF, Blumenthal SL: Outcome of Anterior Cervical Fusion For Discographically Proven Pain. American Spinal Injury Association and the IMSOP joint conference. May, 2002; Vancouver, Canada.
155. Tran V, Ohnmeiss DD, Blumenthal SL, Chang Y, Guyer RD, Zigler JE, Hochschuler SH, Hisey MS, Rashbaum RF: Analysis of Re-Operations When Using Cages as Stand-Alone Devices: Minimum Three Year Follow-Up Study. American Spinal Injury Association and the IMSOP joint conference. May, 2002; Vancouver, Canada.
156. Block AR, Ohnmeiss DD: Cluster Analysis of MMPI Scores and Their Relationship to Spine Surgery Outcome. International Society for the Study of the Lumbar Spine. May, 2002; Cleveland, Ohio.
157. Rogers C, Triano JJ: Developing Skilled Performance of Spinal Manipulation/Adjustment. IV World Congress on Biomechanics. August, 2002; Calgary, Alberta, Canada.
158. Triano JJ: Biomechanics of Prone Continuous Passive Motion for Low Back Pain. IV World Congress on Biomechanics. August, 2002; Calgary, Alberta, Canada.
159. Sachs BL, Vialle E, Miller B, Tysmen M, Ledet E, Ohnmeiss DD: A Bone Growth Dose-Response Study of OP-1 Putty in Interbody Fusion. Spine + Science + Management. November, 2002; New Orleans, Louisiana.
160. Henry S, Ohnmeiss DD, Guyer RD, Zigler JE, Chang Y, Rashbaum RF, Blumenthal SL: Outcome of Anterior Cervical Fusion For Discographically Proven Pain. American Academy of Orthopaedic Surgeons. February, 2003; New Orleans, Louisiana.
161. Zigler JE, Chang Y, Ohnmeiss DD, Guyer RD: Open-Door Laminoplasty in the Treatment of Cervical Myelopathy. American Spinal Injury Association. April, 2003; Miami, Florida.
162. Ohnmeiss DD, Hochschuler SH, Guyer RD, Rashbaum RF, Blumenthal SL: Sleep Disturbances in Back Pain Patients. International Society for the Study of the Lumbar Spine. May, 2003; Vancouver, Canada.
163. Blumenthal SL, Guyer RD, Hochschuler SH, Ohnmeiss DD: Prospective Outcome Evaluation of a Total Disc Replacement. International Society for the Study of the Lumbar Spine. May, 2003; Vancouver, Canada.

164. Wacholtz EH, Block AR, Ohnmeiss DD: Spouse's Influence on Treatment Outcome in Spine Surgery Patients. International Society for the Study of the Lumbar Spine. May, 2003; Vancouver, Canada.
165. Triano JJ: Effects of Visual Feedback on Ratings of Manipulation Performance. World Federation of Chiropractic. May, 2003; Orlando, Florida.
166. Zigler JE, Boden S, Ohnmeiss DD, Rogers C: Using CT Scans to Assess Boney Reconstitution of Iliac Crest Bone Graft Donor Site Defects Backfilled With Grafton® Versus Gelfoam. Spine Across the Sea. July, 2003; Maui, Hawaii.
160. Zigler JE, Guyer RD, Chang Y, Ohnmeiss DD: Open-Door Laminoplasty in the Treatment of Cervical Myelopathy. World Spine. August, 2003; Chicago, Illinois.
161. Guyer RD, Henry S, Ohnmeiss DD, Zigler JE, Chang Y, Rashbaum RF, Blumenthal SL: Outcome of Anterior Cervical Fusion for Cervical Discogenic Pain with Confirmatory Discography. Cervical Spine Research Society. December, 2003; Scottsdale, Arizona.
162. Hochschuler SH, Whitaker C, Zigler JE, Guyer RD, Sachs BL, Blumenthal SL, Rashbaum RF, Ohnmeiss DD: Comparison of Return to Work Following Total Disc Arthroplasty vs. Fusion: A Prospective, Randomized Study. Spine Arthroplasty Society. May, 2004; Vienna, Austria.
163. Gottlieb J, Sachs B, Guyer R, Zigler J, Rashbaum R, Hochschuler S, Blumenthal S, Ohnmeiss D: Comparison of Complications Associated with Lumbar Artificial Disc Replacement Versus Fusion at 2 Year Follow-up. International Society for the Study of the Lumbar Spine. June, 2004; Porto, Portugal.
164. Sachs BL, Hisey MS, Zigler JE, Burd T, Ohnmeiss DD: Clinical Comparison of Minimally Invasive Versus Open Pedicle Screw Placement. International Society for the Study of the Lumbar Spine. June, 2004; Porto, Portugal.
165. Blumenthal S, McAfee P, Guyer R, Hochschuler S, Garcia R, Regan J, Ohnmeiss D: Randomized Controlled Trial of the Charité Artificial Disc vs. Fusion for Single-Level Degenerative Disc Disease: A Two-Year Follow-up Study. International Society for the Study of the Lumbar Spine. June, 2004; Porto, Portugal.
166. Guyer R, Zigler JE, Hochschuler S, Rashbaum RF, Hisey M: A Prospective Study Through an Investigational Device Exemption (IDE) Comparing a New Modular Cage with the BAK Cylindrical Cage for Anterior Lumbar Interbody Fusion: 49 Consecutively Operative Cases. International Meeting on Advanced Spinal Techniques (IMAST). July, 2004; Bermuda.
167. Regan J, McAfee PC, Guyer RD, Blumenthal S, Geisler F: Charite Artificial Disc Replacement Evaluation of the Learning Curve and Complications I: A Multicenter Prospective Randomized Controlled FDA IDE Trial. North American Spine Society. October, 2004; Chicago, Illinois.
168. Whitaker MC, Hisey MS: Accuracy of Percutaneous Lumbar Pedicle Screws Using Plastic vs. Metal Dilator Sleeves. American Academy of Orthopaedic Surgeons. February, 2005; Washington, D.C.

169. Blumenthal SL: Spinal Arthroplasty Society. May, 2005; New York, New York.
170. Ohnmeiss DD, Guyer RD: 24 Month Follow-Up for Reporting Results of Spinal Surgery Studies: Is This Guideline Supported by the Literature? International Society for the Study of the Lumbar Spine. May, 2005; New York, New York.
171. Zigler JE Sachs BL, Rashbaum RF, Ohnmeiss DD: Two-level Total Disc Replacement: Results and Comparison to One-Level Cases. International Society for the Study of the Lumbar Spine. May, 2005; New York, New York.
172. Araghi A, Guyer RD, Hisey MS, Bradley WD, Sama A, Sukovich W, Hardenbrook M: Evaluation of a Novel Hydrosurgery System for Disc Preparation in Lumbar Interbody Fusion in a Cadaver Model. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Alberta, Canada.
173. Sachs BL, Ohnmeiss DD, Smith EL: Use of Artificial Discs in the Treatment of Patients with Scoliosis. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Alberta, Canada.
174. Zigler JE, Sachs BL, Rashbaum RF, Ohnmeiss DD: Total Disc Replacement Using ProDisc 24 month Follow-Up Results of a Prospective Randomized Comparison to Fusion. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Alberta, Canada.
175. Musante DB, Elders GJ, Rashbaum RF, Zigler, JE, Ohnmeiss DD, Sachs BL: Range-of-motion for ProDisc II Total Disc Replacement vs. Fusion. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Alberta, Canada.
176. Hochschuler SH: Long-term Retrospective Study of the First-generation Wallis Implant. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Alberta, Canada.
177. Delamarter RB, Zigler JE, Ohnmeiss DD, Kamin LEA, Pradhan B: Lumbar Total Disc Replacement: A 2 To 3 Year Report from 2 Centers in the United States Clinical Trial for the ProDisc-II Prosthesis. North American Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.
178. Perez-Cruel M, Tobler W Jr, Lennarson P, McCafferty R, Spoonamore M, Araghi A: Early Results of a Prospective, Multicenter, Randomized Clinical Trial Evaluating Minimally Invasive and Open Pedicle Screw Implantation Outcomes. North American Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.
179. Whitaker MC, Hisey MS: Accuracy of Percutaneous Lumbar Pedicle Screws Using Plastic vs. Metal Dilation Sleeves. North American Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.
180. Musante D, Zigler J, Sachs B, Rashbaum R, Elders G, Ohnmeiss D: Effect of Disc Height Restoration and Subsidence on Outcome after Total Disc Replacement: Minimum 2-year Follow-up. North American Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.

181. Leahy M, Zigler J, Ohnmeiss D, Sachs B, Rashbaum R: Analysis of Total Disc Replacement in Postdiscectomy Patients and Comparison to Patients with No Previous Lumbar Spine Surgery. North America Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.
182. Guyer R, Tromanhauser S, Toselli R: An Economic Analysis of Lumbar Total Disc Replacement vs. Fusion. North America Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.
183. Zigler JE, Delamarter R, Pradhan B, Sachs BL, Rashbaum RF, Ohnmeiss DD: Lumbar Total Disc Replacement: A 2 To 3 Year Report From 2 Centers In The United States Clinical Trial For The ProDisc-II Prosthesis. Scoliosis Research Society. October, 2005; Miami, Florida.
184. Guyer R, Tromanhauser S, Toselli R: An Economic Analysis of Lumbar Total Disc Replacement vs. Fusion. American Association of Neurological Surgeons and Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves. March, 2006; Lake Buena Vista, Florida
185. Lhamby J, Guyer R, Zigler J, Blumenthal S, Sachs B, Hochschuler S, Rashbaum R, Ohnmeiss D: Patients Undergoing Total Disc Replacement with Spinal Fusion at Different Lumbar Levels. Spine Arthroplasty Society. May, 2006; Montreal, Canada.
186. Ohnmeiss DD, Blumenthal SL, Guyer RD, Hochschuler SH: Analysis of Change in Outcome Measures at Various Follow-Up Periods: Data from a Prospective Trial. Spine Arthroplasty Society. May, 2006; Montreal, Canada.
187. Araghi A, Bradley W, Guyer R, Hardenbrook M, Hisey M, Sukovich W, Taddonio R: Efficacy of Disc Space Preparation for Transforaminal Lumbar Interbody Fusion: A Comparative Study of a Novel Hydrosurgical Technique to Conventional Methods in a Cadaver Model. Spine Arthroplasty Society. May, 2006; Montreal, Canada.
188. Musante D, Guyer RD: Prospective Randomized Controlled Trial of Kineflex versus Charite in Lumbar Total Disc Arthroplasty: 3 to 9 Month Follow-up. Spine Arthroplasty Society. May, 2006; Montreal, Canada.
189. Jeffords P, Zigler J, Sachs B, Rashbaum R, Ohnmeiss D: Relationship between TDR Position, Range of Motion, and Clinical Outcome. Spine Arthroplasty Society. May, 2006; Montreal, Canada.
190. Hochschuler SH: Clinical Outcomes of Patients with the Wallis System: Two Year Follow-Up. Spine Arthroplasty Society. May, 2006; Montreal, Canada.
191. Siddiqui S, Guyer R, Zigler J, Ohnmeiss D, Blumenthal S, Sachs B, Hochschuler S, Rashbaum R: Factors Related to the 20 Best and 20 Worst 24-month Outcomes of Total Disc Replacement in Prospective Trials. International Society for the Study of the Lumbar Spine. June, 2006; Bergen, Norway.
192. Guyer R, Blumenthal S, Geisler R, McAfee P, J Regan J: The First Year Following FDA Approval of the Charite Artificial Disc: "Real World" Adverse Events Outside an IDE Study Environment. International Society for the Study of the Lumbar Spine. June, 2006; Bergen, Norway.

193. Blumenthal SL, Guyer RD, Geisler FH, McAfee PC: One-Level Lumbar Arthroplasty in Patients 18-45 Years of Age vs. Patients 46-60 Years of Age: Is There a Difference in Clinical Outcome? International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
194. Blumenthal SL, Ohnmeiss DD, Lhamby JL, Hochschuler SH, Zigler JE, Guyer RD, Sachs BL, Rashbaum RF: Patients Undergoing Total Disc Replacement with Spinal Fusion at Different Lumbar Levels. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
195. Hochschuler SH, Ohnmeiss DD, Blumenthal SL, Guyer RD: Results of Two-Level Total Disc Replacement Using CHARITÉ Artificial Disc. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
196. Ohnmeiss DD, Hochschuler SH, Blumenthal SL, Guyer RD: Analysis of Change in Outcome Measures at Various Follow-Up Periods: Data from a Prospective Trial. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
197. Ohnmeiss DD, Hochschuler SH, Guyer RD: Analysis of Lumbar Disc-Related Pain Mechanisms. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
198. McAfee PC, Geisler FH, Blumenthal SL, Guyer RD, Regan J, Stadlan N, Dabbah M, Siddiqui F, Hayes V, Ohnmeiss DD: Predicted 5-year Survivorship of the CHARITÉ Artificial Disc vs. Anterior Lumbar Interbody Fusion: A Kaplan-Meier Analysis. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
199. Jenis LG, Banco RJ, Tromanhauser SG, Bitan FD, Hochschuler SH, Guyer RD, Holt RT, Majd ME, McAfee PC, Regan J: Return-to-Work Following Treatment with CHARITÉ Artificial Disc versus Anterior Lumbar Interbody Fusion in Patients with Degenerative Disc Disease. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
200. Blumenthal SL, Guyer RD, Geisler FH, McAfee PC, Regan JJ. The First Year Following FDA Approval of the Charité Artificial Disc: "Real World" Adverse Events Outside an IDE Study Environment. North American Spine Society. September, 2006; Seattle, Washington.
201. Guyer RD, Banco RJ, Bitan FD, Blumenthal SL, Cappuccino A, Geisler FH, Hochschuler SH, Holt RT, Jenis LG, Majd ME, McAfee PC, Mullin BB, Regan JJ, Stadlan N, Tromanhauser SG, Wong D. Lumbar Arthroplasty vs. Anterior Interbody Fusion at One-Level: Clinical Results at 5-Year Follow-Up from the IDE Study of the Charité Artificial Disc. North American Spine Society. September, 2006; Seattle, Washington.
202. Jeffords P, Zigler J, Sachs B, Rashbaum R, Ohnmeiss D: Relationship between TDR Position, Range of Motion, and Clinical Outcome. North American Spine Society. September, 2006; Seattle, Washington.

203. Lhamby J, Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD, Sachs BL, Hochschuler SH, Rashbaum RF. Patients Undergoing Total Disc Replacement with Spinal Fusion at Different Lumbar Levels. North American Spine Society. September, 2006; Seattle, Washington.
204. Musante D, Elders G, Rashbaum RF, Zigler JE, Sachs BL, Ohnmeiss DD: Comparison of Operative and Adjacent Level Motion Following Disc Replacement Versus Fusion and Their Association with Clinical Outcome: 2-Year Follow-Up. North American Spine Society. September, 2006; Seattle, Washington.
205. Tobler Jr W, Perez-Cruet M, Spoonamore M, Araghi A, McCafferty R, Lennarson P. Early Results of a Prospective, Multi-Center, Randomized Clinical Trial Evaluating Minimally Invasive and Open Pedicle Screw Implantation Outcomes. North American Spine Society. September, 2006; Seattle, Washington.
206. Wood KB, Kovalsky D, Perkins P, Burd T, Huddleston P, Robbins S, Sachs BL, Weinstein M, Cheng J. Interim Evaluation of Prospective Multi-Center Outcome Study of Anterior Lumbar Plating for One and Two Level Degenerative Disc Disease. North American Spine Society. September, 2006; Seattle, Washington.
207. Zigler J, Gill K, Balderston R, Cammisa F, Linovitz R: Two-year Follow-up from 5 Centers on the ProDisc-C IDE Trial. North American Spine Society. September, 2006; Seattle, Washington.
208. Zigler JE, Delamarter R, Spivak J, Linovitz R, Danielson G, Haider T, Cammisa F, Zucherman J, Balderston R, Kitchel S, Foley K, Watkins R, Bradford D, Yue J, Yuan H, Herkowitz H, Geiger D. IDE Clinical Results of the ProDisc-L: Comparison of Training Cases to Randomized Trial. North American Spine Society. September, 2006; Seattle, Washington.
209. Zigler JE, Guyer R, Gill K, Balderson B, Cammisa F, Linovitz R: Two-year Follow-up from 5 Centers Participating in the ProDisc-C IDE Trial. Cervical Spine Research Society. November-December, 2006; Palm Beach, Florida.
210. Geisler FH, Guyer RD, Blumenthal SL, McAfee PC, Cappuccino A, Bitan F, Regan JJ: Patient Selection for Lumbar Arthroplasty and Arthrodesis: The Crossover Effect in a Controlled, Multi-Center, Randomized Study. Congress of Neurological Surgeons/American Association of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves. April, 2007; Washington, D.C.
211. Ohnmeiss DD, Guyer RD, Rashbaum RF: What Constitutes Success in Lumbar Spine Surgery? Spine Arthroplasty Society. May, 2007; Berlin, Germany.
212. Blumenthal SB, Zigler JE, Guyer RD, Ohnmeiss DD: Comparison of Charite vs. ProDisc for the Treatment of Single-level Symptomatic Disc Degeneration: Prospective Data from One Center. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
213. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: A Prospective Randomized Study Comparing Two Lumbar Total Disc Replacement Devices. Spine Arthroplasty Society. May, 2007; Berlin, Germany.

214. Zigler JE, Tay B, Gill K, Cammisa F, Linovitz R: ProDisc–C Results from 5 Centers with Average Follow-Up Greater than 2 Years. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
215. Roybal R, Hisey MS, Zigler JE, Sachs BL, Rashbaum RF, Guyer RD, Ohnmeiss DD: Minimally Invasive Pedicle Screw Placement: A Comparison to Open Surgery. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
216. Ellis L, Zigler JE, Ohnmeiss DD, Sachs BL, Rashbaum RF: Analysis of SF-36 Scores in Patients Undergoing Total Disc Replacement vs. Fusion. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
217. Hochschuler SH, Lieberman IH, Mayanja MM: Importance of Device Positioning in Total Disc Replacement Surgery. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
218. Rohan MX, Ohnmeiss DD, Guyer RD, Zigler JE, Blumenthal SL, Hochschuler SH, Sachs BL, Rashbaum RF: Relationship between the Length of Time Off Work Pre-operatively and Clinical Outcome at 24-month Follow-up. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
219. Guyer RD, Blumenthal SL, Geisler FH, McAfee PC: The Effect of Age on Outcomes in Patients with One-level Arthroplasty. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
220. Geisler FH, Guyer RD, Blumenthal SL, McAfee PC, Cappuccino A, Bitan F, Regan JJ: Patient Selection for Lumbar Arthroplasty and Arthrodesis: The Crossover Effect in a Controlled, Multi-Center, Randomized Study. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
221. McAfee PC, Cunningham B, Geisler FH, Guyer RD, Regan JJ, Blumenthal SL, Cappuccino A: Correlation of the Global Range of Motion (L3 to S1) between In Vitro Bench Top ROM and Clinical ROM from the Charite Artificial Disc FDA Level I Data. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
222. Lorenz M, Zindrick M, Radebaugh M, Blumenthal SL: Novel Artificial Cervical Disc Arthroplasty – Chronic Sheep Study, Six Month Results. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
223. Roybal R, Hisey MS, Zigler JE, Sachs BL, Rashbaum RF, Guyer RD, Ohnmeiss DD: Minimally Invasive Pedicle Screw Placement: A Comparison to Open Surgery. International Society for the Study of the Lumbar Spine. June, 2007; Hong Kong, China.
224. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: A Prospective Randomized Study Comparing Two Lumbar Total Disc Replacement Devices. International Society for the Study of the Lumbar Spine. June, 2007; Hong Kong, China.
225. Blumenthal SL, Zigler JE, Guyer RD, Ohnmeiss DD: Similarities and Differences in Clinical and Radiographic Outcomes of Two US IDE Trials for Lumbar Disc Replacement. International Society for the Study of the Lumbar Spine. June, 2007; Hong Kong, China.

226. Ohnmeiss DD, Guyer RD, Rashbaum RF: What Constitutes Success in Lumbar Spine Surgery? International Meeting on Advanced Spinal Techniques (IMAST). July, 2007; Paradise, Bahamas.
227. Yakel D, Guyer RD, Zigler JE, Ohnmeiss DD: Complications, Re-operations, and Outcome of Anterior Cervical Fusion Using Plates. World Spine. July, 2007; Istanbul, Turkey.
228. Rohan MX, Ohnmeiss DD, Guyer RD, Zigler JE, Blumenthal SL, Hochschuler SH, Sachs BL, Rashbaum RF: Relationship between the Length of Time Off Work Pre-operatively and Clinical Outcome at 24-month Follow-up. North American Spine Society. October, 2007; Austin, Texas.
229. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: A Prospective Randomized Study Comparing Two Lumbar Total Disc Replacement Devices. North American Spine Society. October, 2007; Austin, Texas.
230. Ohnmeiss D, Guyer R, Blumenthal S, Hochschuler S: Analysis of Total Disc Replacement Data with Respect to Published MCID (Minimal Clinically Important Difference) Values. North American Spine Society. October, 2007; Austin, Texas.
231. McAfee PC, Geisler F, Cunningham BW, Guyer RD, Blumenthal SL, Regan JJ: Global Range of Motion Distribution Following One-Level Lumbar Arthroplasty —2 to 5 year Radiographic Follow up of 375 Consecutive Patients Enrolled in an Artificial Disc FDA Level I Pivotal Trial. North American Spine Society. October, 2007; Austin, Texas.
232. Lieberman I, Hardenbrook M, Wang J, Guyer R, Khanna J: Radiation Exposure Using Miniature Robotic Guidance for Spinal Surgery. North American Spine Society. October, 2007; Austin, Texas.
233. Zigler J: Does “Quality Of Life” Differ Following ProDisc®-C Surgery Compared to ACDF? North American Spine Society. October, 2007; Austin, Texas.
234. Yonemura KS, Araghi A, Carrino J, Khoo LT, Perez-Cruet M, Von Jako R, Finn M: Electromagnetic Pedicle Screw Navigation and Radiation Exposure. North American Spine Society. October, 2007; Austin, Texas.
235. Bradley WD, Roush TF, Hisey MS, Ohnmeiss DD: Minimally Invasive Trans-sacral Approach to L5-S1 Interbody Fusion: Technique and Clinical Results. Society for Minimally Invasive Surgery. November, 2007; San Diego, California.
236. Zigler J: Does Quality of Life Differ Following ProDisc-C Surgery Compared to ACDF? Cervical Spine Research Society. November, 2007; San Francisco, California.
237. Guyer R, Laurysen C, Blumenthal S: Cervical Total Disc Replacement: A Prospective Randomized Comparison to Fusion. Asia Pacific Spine Arthroplasty Society. January, 2008; Seoul, South Korea.

238. Geisler FH, Guyer RD, McAfee PC, Regan JJ, Blumenthal SL, Majd ME, Holt RT, Banco RJ: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Effect at 5-year Follow-up of Prior Discectomy on Clinical Outcomes Following Lumbar Arthroplasty. Congress of Neurological Surgeons/American Association of Neurological Surgeons. February, 2008; Orlando, Florida.
239. Regan JJ, Geisler FH, Majd ME, Blumenthal SL, Holt RT, Jenis LG, Banco RJ: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ™ Artificial Disc vs. Lumbar Fusion: Comparison of the Clinical Outcome of Patients Implanted at L4-L5 vs. L5-S1. Congress of Neurological Surgeons/American Association of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves. February, 2008; Orlando, Florida.
240. Araghi A, Hisey MS, Zigler JE, Guyer RD, Sachs BL, Rashbaum RF, Ohnmeiss DD: Comparison of Open vs. Minimally Invasive Surgical Technique for Posterior Lumbar Fusion. Congress of Neurological Surgeons/American Association of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves. February, 2008; Orlando, Florida.
241. Guyer RD, Laurysen C, Blumenthal SL: A Prospective Randomized Study Comparing Cervical Total Disc Replacement to Fusion. Spine Arthroplasty Society. May, 2008; Miami, Florida.
242. Guyer RD: A Clinical Evaluation of Anular Repair Post Lumbar Discectomy. Spine Arthroplasty Society. May, 2008; Miami, Florida.
243. Ohnmeiss DD, Guyer RD, Blumenthal SL, Hochschuler SH: Analysis of Total Disc Replacement Outcomes When Applying MCID (Minimal Clinically Important Difference) Criteria. Spine Arthroplasty Society. May, 2008; Miami, Florida.
244. Zigler JE, Ohnmeiss DD: Is There a “Euphoric Bias” Effecting the Outcomes of Randomized vs. Non-randomized Patients Enrolling in New Technology Trials? Spine Arthroplasty Society. May, 2008; Miami, Florida.
245. Roush TF, Blumenthal SL, Guyer RD, Ohnmeiss DD: Analysis of Hybrid (Total Disc Replacement / Fusion Constructs) in the Lumbar Spine: A Comparison with Two-Level Total Disc Replacement. Spine Arthroplasty Society. May, 2008; Miami, Florida.
246. Zigler JE, Ohnmeiss DD: Analysis of the Height and Angulation of the L5-S1 Disc Space and the Relationship to Range of Motion and Clinical Outcome in Total Disc Replacement Patients. Spine Arthroplasty Society. May, 2008; Miami, Florida.
247. Bradley WD, Roush TF, Hisey MS, Ohnmeiss DD: Minimally Invasive Trans-sacral Approach to L5-S1 Interbody Fusion: Technique and Clinical Results. Spine Arthroplasty Society. May, 2008; Miami, Florida.
248. Araghi A, Hisey MS, Zigler JE, Guyer RD, Sachs BL, Rashbaum RF, Ohnmeiss DD: Comparison of Open vs. Minimally Invasive Surgical Technique for Posterior Lumbar Fusion. Spine Arthroplasty Society. May, 2008; Miami, Florida.

249. Blumenthal SL, Bitan FD, Cappuccino A, Geisler FH, Guyer RD, McAfee PC: A New Registry for the Advancement of Arthroplasty: The Center for Arthroplasty Research and Education (CARES). Spine Arthroplasty Society. May, 2008; Miami, Florida.
250. McAfee PC, Banco RJ, Blumenthal SL, Geisler FH, Guyer RD, Holt RT, Majd ME: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Effect at 5-year Follow-up of Prior Surgery on Clinical Outcomes Following Lumbar Arthroplasty. Spine Arthroplasty Society. May, 2008; Miami, Florida.
251. Regan JJ, Banco RJ, Blumenthal SL, Jenis LG, Geisler FH, Holt RT, Majd ME, Hetzell B: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Comparison of the Clinical Outcome of Patients Implanted at L4-L5 vs. L5-S1. Spine Arthroplasty Society. May, 2008; Miami, Florida.
252. Zigler J, Delamarter R, Janssen M, Murrey D: Evidence of Lower Adjacent Level Changes after ProDisc-C Compared to ACDF. Spine Arthroplasty Society. May, 2008; Miami, Florida.
253. Ohnmeiss DD, Blumenthal SL, Guyer RD, Hochschuler SH: Analysis of Total Disc Replacement Outcomes When Applying MCID (Minimal Clinically Important Difference) Criteria. International Society for the Study of the Lumbar Spine. May 2008; Geneva, Switzerland.
254. Ohnmeiss DD, Zigler JE: Analysis of the Height and Angulation of the L5-S1 Disc Space and the Relationship to Range of Motion and Clinical Outcome in Total Disc Replacement Patients. International Society for the Study of the Lumbar Spine. May 2008; Geneva, Switzerland.
255. Ohnmeiss DD, Roush TF, Blumenthal SL, Guyer RD: Analysis of Hybrid (Total Disc Replacement/Fusion Constructs) in the Lumbar Spine: A Comparison with Two-level Total Disc Replacement. North American Spine Society SpineWeek. May 2008; Geneva, Switzerland.
256. Guyer RD, McAfee PC, Banco RJ, Bitan F, Cappuccino A, Geisler FH, Hochschuler SH, Jenis LG, Regan JJ, Blumenthal SL: Prospective, Randomized, Multi-center Food and Drug Administration Investigational Device Exemption Study of Lumbar Total Disc Replacement with the Charite Artificial Disc versus Lumbar Fusion. Eurospine. May, 2008; Geneva, Switzerland.
257. Hardenbrook M, Lieberman I, Khanna AJ, Guyer RD, Wan J: Accuracy, Radiation and Procedure Time – Efficacy of Miniature Robotic Guidance in Spinal Surgery. Eurospine. May, 2008; Geneva, Switzerland.
258. Banco RJ, Geisler FH, Guyer RD, Hetzell BM, Holt RT, Majd ME: Prospective, Randomized, Multi-center FDA IDE Study of Charite Artificial Disc vs. Lumbar Fusion: Fusion: Effect at 5-year Follow-up of Age on Clinical Outcomes Following Lumbar Arthroplasty. Eurospine. May, 2008; Geneva, Switzerland.

259. Regan JJ, Banco RJ, Blumenthal SL, Jenis LG, Geisler FH, Holt RT, Majd ME: Prospective, Randomized, Multi-center FDA IDE Study of Charite Artificial Disc vs. Lumbar Fusion: Comparison of the Clinical Outcome of Patients Implanted at L4-5 vs. L5-S1. Eurospine. May, 2008; Geneva, Switzerland.
260. Blumenthal SL, Arnold P, Rhyne A, Wang J, Kim K: Oxiplex Reduces the Incidence of Back Pain, Leg Pain, and Associated Symptoms 6 Months Following Single-level Lower Lumbar Surgery for Removal of A Herniated Disc. North American Spine Society SpineWeek. May, 2008; Geneva, Switzerland.
261. Webb S, Brown CW, Sachs BL, Wiles D, Castellvi A, Wingo C, Halperin M, Bajares G, Perez Oliva A, Prejbeanu R: The Total Facet Arthroplasty System® (TFAS®) in the Treatment of Spinal Stenosis: Worldwide Experience with Longest Follow-up of 24 Months. Eurospine. May, 2008; Geneva, Switzerland.
262. Theofilos C, Araghi A, Hisey M, Sasso R: Flexicore® Disc Replacement vs. Fusion for Lumbar Degenerative Disc Disease: Pain Relief Results from Four Study Sites in a Prospective, Randomized Controlled Trial. North American Spine Society SpineWeek. May, 2008; Geneva, Switzerland.
263. Wong DC, Jenis LG, Guyer RD, Banco RJ, Geisler FH, Holt RT, Majd ME, Regan JJ, Blumenthal SL, DeMuth GE, Hetzell BC: Is Preoperative Disc Height a Contributing Factor in 5-year Success Rate with Arthrodesis and Arthroplasty? International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
264. Guyer RD, Geisler FH, Majd ME, Holt RT, Regan JJ, Blumenthal SL, Wong DC, Jenis LG, Banco RJ: The Impact of Preoperative DEXA Scores Following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
265. Blumenthal S, Zigler J, Guyer R, Waldrip A, Ohnmeiss D: A Prospective Randomized Comparison of Cervical Disc Replacement and Anterior Cervical Fusion. North American Spine Society. October, 2008; Toronto, Canada.
266. Majd M, Holt R, Guyer RD, Banco R, Geisler F, Jenis L, Regan J, Wong D, Blumenthal S: Two- and Five-year Lumbar Index-level Motion Following Arthroplasty: Impact of Heterotopic Ossification. North American Spine Society. October, 2008; Toronto, Canada.
267. Guyer RD, Geisler F, Holt RT, Majd M, Regan J, Wong D, Jenis L, Banco R, Blumenthal S, Demuth G, Hetzell B: The Impact of Postoperative Disc Height following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. North American Spine Society. October, 2008; Toronto, Canada.
268. Guyer RD, Laurysen C, Blumenthal S: Prospective Randomized Study Comparing Cervical Total Disc Replacement to Anterior Cervical Fusion. North American Spine Society. October, 2008; Toronto, Canada.
269. Bradley WD, Roush TF, Hisey MS, Ohnmeiss DD. L5-S1 Fusion Performed Using a Minimally Invasive Trans-Sacral Approach. Society for Minimally Invasive Spine Surgery. November, 2008; Henderson, Nevada.

270. Marchetti J, Verma-Kurvari S, Patel N, Gibbs S, Lankford C, Ohnmeiss D: Do EMG Readings Predict Patient's Response to ESI? American Academy of Physical Medicine and Rehabilitation. November, 2008; San Diego, California.
271. Guyer RD, Blumenthal SL, Zigler JE, Waldrip AM, Ohnmeiss DD: A Prospective Randomized Comparison of Cervical Disc Replacement and Anterior Cervical Fusion. Cervical Spine Research Society. December, 2008; Austin, Texas.
272. Guyer RD, Lauryssen C, Blumenthal SL: Cervical Total Disc Replacement: A Prospective, Randomized Comparison to Anterior Cervical Fusion. Cervical Spine Research Society. December, 2008; Austin, Texas.
273. Majd M, Holt R, Guyer RD, Banco R, Geisler F, Jenis L, Regan J, Wong D, Blumenthal S: Two- and Five-year Lumbar Index-level Motion Following Arthroplasty: Impact of Heterotopic Ossification. American Association of Neurological Surgeons / Congress of Neurological Surgeons. March, 2009; Phoenix, Arizona.
274. Wong DC, Jenis LG, Guyer RD, Banco RJ, Geisler FH, Holt RT, Majd ME, Regan JJ, Blumenthal SL, DeMuth GE, Hetzell BC: Is Preoperative Disc Height a Contributing Factor in 5-year Success Rate with Arthrodesis and Arthroplasty? American Association of Neurological Surgeons / Congress of Neurological Surgeons. March, 2009; Phoenix, Arizona.
275. Guyer RD, Geisler FH, Majd ME, Holt RT, Regan JJ, Blumenthal SL, Wong DC, Jenis LG, Banco RJ: The Impact of Preoperative DEXA Scores Following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. American Association of Neurological Surgeons / Congress of Neurological Surgeons. March, 2009; Phoenix, Arizona.
276. Guyer RD, Geisler F, Holt RT, Majd M, Regan J, Wong D, Jenis L, Banco R, Blumenthal S, Demuth G, Hetzell B: The Impact of Postoperative Disc Height following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. American Association of Neurological Surgeons / Congress of Neurological Surgeons. March, 2009; Phoenix, Arizona.
277. Guyer RD, Rodriguez M, Blumenthal SL, Zigler JE, Atanasov AM, Ohnmeiss DD: A Prospective Randomized Comparison of Cervical Disc Replacement and Anterior Cervical Fusion. Spine Arthroplasty Society. April, 2009; London, England
278. Guyer RD, Auer PB, Zigler JE, Blumenthal SL, Ohnmeiss DD: Relationship between Endplate Morphology and Clinical Outcome of Single-Level Lumbar Disc Arthroplasty. Spine Arthroplasty Society. April, 2009; London, England.
279. Guyer RD, Geisler FH, Majd ME, Holt RT, Regan JJ, Blumenthal SL, Wong DC, Jenis LG, Banco RJ: The Impact of Preoperative DEXA Scores Following Arthroplasty on Long-term Clinical and Radiographic Outcomes – A 5-Year Follow-up Study. Spine Arthroplasty Society. April, 2009; London, England.

280. Guyer RD, Geisler FH, Holt RT, Majd ME, Regan JJ, , Wong DC, Jenis LG, Banco RJ, Blumenthal SL, DeMuth G, Hetzell BH: The Impact of Postoperative Disc Height following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. Spine Arthroplasty Society. April, 2009; London, England.
281. Ohnmeiss DD, Waldrip A, Blumenthal S, Zigler J, Guyer RD: Cervical Total Disc Replacement: Is It Effective in Treating Patients' Greatest Self-reported Functional Limitations? Spine Arthroplasty Society. April, 2009; London, England.
282. Majd ME, Holt RT, Guyer RD, Banco RJ, Geisler FH, Jenis LG, Regan JJ, Wong DC, Blumenthal SL: Two- and Five-year Lumbar Index-level Motion Following Arthroplasty: Impact of Heterotopic Ossification. Spine Arthroplasty Society. April, 2009; London, England.
283. Block AR, Austin S, Ohnmeiss DD: Presurgical Psychological Screening in Total Disc Replacement Patients. Spine Arthroplasty Society. April, 2009; London, England.
284. Li B, Guyer RD, Blumenthal S, Zigler J, Ohnmeiss DD: Is Pre-operative Disc Height Related to Lumbar Total Disc Replacement Outcome? Spine Arthroplasty Society. April, 2009; London, England.
285. Kicinski S, Guyer RD, Zigler JE, Verma-Kurvari S, Ohnmeiss DD: Sacroiliac Joint Dysfunction in Patients Enrolled in Lumbar Total Disc Replacement Trials. Spine Arthroplasty Society. April, 2009; London, England.
286. Guyer RD, Geisler FH, Holt RT, Majd ME, Regan JJ, Wong DC, Jenis LG, Banco RJ, Blumenthal SL, DeMuth G, Hetzell BH: The Impact of Postoperative Disc Height Following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. Spine Society of Australia. April, 2009; Brisbane, Australia.
287. Guyer RD, Geisler FH, Majd ME, Holt RT, Regan JJ, Blumenthal SL, Wong DC, Jenis LG, Banco RJ: The Impact of Preoperative DEXA Scores Following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. Spine Society of Australia. April, 2009; Brisbane, Australia.
288. Block AR, Austin S, Ohnmeiss DD: Presurgical Psychological Screening in Total Disc Replacement Patients. International Society for the Study of the Lumbar Spine. May, 2009; Miami, Florida.
289. Li B, Guyer RD, Blumenthal S, Zigler J, Ohnmeiss DD: Is Pre-operative Disc Height Related to Lumbar Total Disc Replacement Outcome? International Society for the Study of the Lumbar Spine. May, 2009; Miami, Florida.
290. Guyer RD, Cappuccino A, Blumenthal SL: 24-month Follow-up of a Prospective Randomized Comparison of Two Lumbar Total Disc Replacements. International Society for the Study of the Lumbar Spine. May, 2009; Miami, Florida.
291. Guyer RD, Shellock J, MacLennan B, Hanscom D, Knight RQ, McComb P, Jacobs J, Bradford D: Early Failure of Metal-on-Metal Artificial Discs Due to Metal Hypersensitivity: The Diagnostic and Treatment Approach in Four Collected Cases. International Society for the Study of the Lumbar Spine. May, 2009; Miami, Florida.

292. Zigler JE, Guyer RD, Ohnmeiss DD, Blumenthal SL: Anterior Re-operation at the Same Level Following Lumbar Total Disc Replacement. International Society for the Study of the Lumbar Spine. May, 2009; Miami, Florida.
293. Guyer RD, Auer PB, Zigler JE, Ohnmeiss DD, Blumenthal SL: Relationship between Endplate Morphology and Clinical Outcome of Single-Level Lumbar Disc Arthroplasty. International Meeting on Advanced Spine Techniques (IMAST). July, 2009; Vienna, Austria.
294. Murrey D, Janssen M, Delamarter R, Goldstein JA, Zigler J, Tay B, Darden B: Five-Year Results of the FDA IDE ProDisc®-C TDR Clinical Trial. International Meeting on Advanced Spine Techniques (IMAST). July, 2009; Vienna, Austria.
295. Guyer RD, Pettine K, Duffy M, Blumenthal SL: A Prospective Randomized Comparison of Two Lumbar Total Disc Replacements: Results at 24-Month Follow-Up. North American Spine Society. October, 2009; San Francisco, California.
296. Guyer RD, Auer PB, Zigler JE, Blumenthal SL, Ohnmeiss DD: Relationship between Endplate Morphology and Clinical Outcome of Single-Level Lumbar Disc Arthroplasty. North American Spine Society. October, 2009; San Francisco, California.
297. Garcia R, Blumenthal SL, Guyer RD, Yue J: Prospective Randomized US Trial Comparing an Unconstrained, Semi-Constrained, and Constrained TDR in the Treatment of Single Level Discogenic Pain: Results from Two Centers in an FDA IDE Study. North American Spine Society. October, 2009; San Francisco, California.
298. Zigler JE, Blumenthal SL, Guyer RD, Atanasov A, Rodriguez M, Ohnmeiss DD: Comparison of Cervical Disc Replacement and Anterior Cervical Fusion: 24-month Results from Five Prospective Randomized Studies. Asia Pacific Spine Arthroplasty Society. January, 2010; Sanya, China.
299. Zigler JE, Blumenthal SL, Guyer RD, Ohnmeiss DD: Analysis of Re-operations in Lumbar Total Disc Replacement: Experience with 900 Consecutive Cases Including First Case Experience. Asia Pacific Spine Arthroplasty Society. January 2010; Sanya, China.
300. Lindley EM, Sherman BP, Ohnmeiss D, Zigler J, Kasow DB, Janssen ME, Patel VV: The Positive Predictive Value of Provocative Discography in Artificial Disc Replacement. American Association of Neurological Surgeons/Congress of Neurological Surgeons: Disorders of the Spine and Peripheral Nerves. February, 2010; Orlando, Florida.
301. Blumenthal SL, Guyer RD: Anular Repair after Lumbar Discectomy: Preliminary Observations from an Ongoing, Prospective, Randomized, Controlled Clinical Trial. Spine Society of Australia. April, 2010; Christchurch, New Zealand.
302. Guyer RD, Pettine K, Knight RQ, Coric D, McAfee PC, Gordon CR, Cappuccino A, Buckley RA, Nunley P, Geisler FH, Peppers TA, Rappaport JR, Laurysen C: Direct Compression of Two Lumbar Total Disc Replacement Devices: Results from a Prospective, Randomized, Multicenter FDA-Regulated Trial. International Society for the Study of the Lumbar Spine. April, 2010; Auckland, New Zealand.

303. Guyer RD, Pettine K, Knight RQ, Coric D, McAfee PC, Gordon CR, Cappuccino A, Buckley RA, Nunley P, Geisler FH, Peppers TA, Rappaport JR, Laurysen C: Radiographic Comparison of Two Lumbar Total Disc Replacement Devices: Results from a Prospective, Randomized, Controlled, Multicenter FDA-Regulated Trial. International Society for the Study of the Lumbar Spine. April, 2010; Auckland, New Zealand.
304. Ohnmeiss DD, Guyer RD, Blumenthal SL: Analysis of Change in Scores in commonly used Outcome Measures: What Can We Legitimately Assume about the Stability of Individual Patient Scores Based on Group Mean Scores? International Society for the Study of the Lumbar Spine. April, 2010; Auckland, New Zealand.
305. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE: Intra-Operative Conversion of Attempted Lumbar Total Disc Replacement to Fusion: Incidence and Causes. International Society for the Study of the Lumbar Spine. April, 2010; Auckland, New Zealand.
306. Blumenthal SL, Saqqa S, Guyer RD, Zigler JE, Ohnmeiss DD: Hybrid Combined Total Disc Replacement and Fusion Procedures in the Lumbar Spine: Clinical and Radiographic Outcome. International Society for the Study of the Lumbar Spine. April, 2010; Auckland, New Zealand.
307. Blumenthal SL, Rainey S, Zigler JE, Guyer RD, Ohnmeiss DD: Analysis of Adjacent Segment Re-Operation Following Lumbar Total Disc Replacement. International Society for the Study of the Lumbar Spine. April, 2010; Auckland, New Zealand.
308. Ohnmeiss DD, Hume CS, Guyer RD, Zigler JE, Blumenthal SL: Cost Comparison of Total Disc Replacement vs. Fusion in Patients with Insurance Denial for Disc Replacement. International Society for the Study of the Lumbar Spine. April, 2010; Auckland, New Zealand.
309. Ohnmeiss DD, Guyer RD, Blumenthal SL: Analysis of Change in Scores in Commonly Used Outcome Measures: What Can We Legitimately Assume about the Stability of Individual Patient Scores Based on Group Mean Scores? Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
310. Guyer RD, Pettine K, Knight RQ, Coric D, McAfee PC, Gordon CR, Cappuccino A, Buckley RA, Nunley P, Geisler FH, Peppers TA, Rappaport JR, Laurysen C: Direct Comparison of Two Lumbar Total Disc Replacement Devices: Results from a Prospective, Randomized, Multicenter FDA-Regulated Trial. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
311. Guyer RD, Pettine K, Knight RQ, Coric D, McAfee PC, Gordon CR, Cappuccino A, Buckley RA, Nunley P, Geisler FH, Peppers TA, Rappaport JR, Laurysen C: Radiographic Comparison of Two Lumbar Total Disc Replacement Devices: Results from a Prospective, Randomized, Controlled Multicenter FDA-Regulated Trial. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
312. Guyer RD, Ohnmeiss DD, Blumenthal SL: Lumbar Total Disc Replacement: Results of a Comprehensive Review of Clinical Outcomes, Radiographic Measures, and Complications/Re-Operations. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.

313. Blumenthal SL, Saqqa S, Guyer RD, Zigler JE, Ohnmeiss DD: Hybrid Combined Total Disc Replacement and Fusion Procedures in the Lumbar Spine: Clinical and Radiographic Outcome. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
314. Blumenthal SL, Ohnmeiss DD, Zigler JE, Guyer RD: Intra-Operative Conversion of Attempted Lumbar Total Disc Replacement to Fusion: Incidence and Causes. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
315. Guyer RD, Shellock J, Kugler C, Hisey MS, Bradley WD, Ohnmeiss DD: Indirect Decompression of Lumbar Spondylolisthesis using Anterior Lumbar Interbody Fusion and Minimally Invasive Pedicle Screw Fixation. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
316. Bradley WD, Hisey MS, Ohnmeiss DD: Minimally Invasive L5-S1 Fusion Performed Using a Trans-Sacral Approach. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
317. Glenn JS, Guyer RD: Anterior Discectomy and Total Disc Replacement for Patients with Third and Fourth Recurrent Lumbar Disc Herniations. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
318. Zigler JE: What is the “Real World” Experience of Pro-Disc®-L Revision Surgery? Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
319. Araghi A, Sugden CE: The Effects of Anular Repair on Sciatica Patients Receiving a Micro-Discectomy Procedure. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
320. Janssen ME, Zigler JE, Delamarter R, Krop MA, Balderston RA, Spivak JM, Goldstein JA, Linovitz RJ, Zucherman JF, Yue JJ, Haider TT, Kitchel SH, Cammisa FP, Danielson GO, Geiger D, Watkins R, Yuan H, Sherman JE, Herkowitz HN: Results from the Prospective, Randomized, Multicenter IDE Study of 2-Level ProDisc®-L: Randomized Patients versus Continued Access Patients at 2 Years. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
321. Lindley EM, Sherman BP, Ohnmeiss D, Zigler J, Kasow DB, Janssen ME, Patel VV: The Positive Predictive Value of Provocative Discography in Artificial Disc Replacement. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
322. Blumenthal SL, Rainey S, Guyer RD, Zigler JE, Ohnmeiss DD: Analysis of Adjacent Re-Operation Following Lumbar Total Disc Replacement. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
323. Duffy M, Saqqa SG, Blumenthal SL, Zigler JE, Guyer RD, Ohnmeiss DD: Treatment Options for Two-Level Symptomatic Disc Degeneration: Comparison of Total Disc Replacement, Fusion, and Hybrids. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
324. Blumenthal SL, Saqqa SG, Guyer RD, Zigler JE, Ohnmeiss, DD: Hybrid Combined Total Disc Replacement and Fusion Procedures in the Lumbar Spine: Clinical and Radiographic Outcome. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.

325. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE, Hume CS: Intra-Operative Conversion of Attempted Lumbar Total Disc Replacement to Fusion: Incidence and Causes. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
326. Zigler JE, Guyer RD, Blumenthal SL, Ohnmeiss DD: Analysis of Re-Operations after Lumbar Total Disc Replacement: Experience in 1,000 Consecutive Cases Beginning with First Case Experience of 11 Surgeons. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
327. Bradley WD, Hisey M, Ohnmeiss DD: Minimally Invasive L5-S1 Fusion Performed using a Trans-Sacral Approach. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
328. Guyer RD, Shellock J, Kugler C, Hisey M, Bradley WD, Ohnmeiss DD: Indirect Decompression of Lumbar Spondylolisthesis using Anterior Lumbar Interbody Fusion and Minimally Invasive Pedicle Screw Fixation. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
329. Guyer RD, Pettine KA, Coric D, Nunley PD, Musante D: Radiographic Comparison of Two Lumbar Total Disc Replacement Devices: Results from a Prospective, Randomized, Controlled Multicenter FDA-Regulated Trial. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
330. Araghi A: Effect of Annular Repair on Sciatica: A Report of 317 Cases. North American Spine Society. October, 2010; Orlando, Florida.
331. Bradley WD, Blumenthal S, Miller LE: Early Outcomes of Lumbar Spinal Stenosis Treatment with the Superior Interspinous Spacer. Society for Minimally Invasive Spine Surgery. November, 2010; Las Vegas, Nevada.
332. Ohnmeiss DD, Zigler JE, Guyer RD, Blumenthal SL: Meta-Analysis of Cervical Total Disc Replacement Compared With Anterior Cervical Fusion: Data from Four Prospective Randomized Multicenter FDA IDE Trials. Cervical Spine Research Society. December, 2010; Charlotte, North Carolina.
333. Thongthagen I: Evaluating Symptomatic Lumbar Disc Degeneration and Its Treatment in the Context of Other Medical Conditions. AOSpine Fellows Forum. Banff, Alberta, Canada.
334. Coric D, Guye RD, Nunley PD, Gordon C, Dimmig T, Carmody C, Ohnmeiss DD, Boltes M: Prospective, Randomized, Multicenter Study of Cervical Arthroplasty: 269 Patients from the Kineflex/C Metal-on-Metal Artificial Disc IDE Study with Minimum Two-Year Follow-up. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. March, 2011; Phoenix, Arizona.
335. Zigler JE, Guyer RD, Ohnmeiss DD: Three-Level Total Disc Replacement. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.

336. Guyer RD, Blumenthal SL, Zigler JE, Verma-Kurvari S, Atanasov A, Ohnmeiss DD: Bone Mineral Density Scanning in Potential Lumbar Total Disc Replacement Patients. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
337. Ohnmeiss DD, Blumenthal SL, Guyer RD: Investigating the Potential Effect of “Euphoric Bias” for the New Technology on Results of Randomized Lumbar Total Disc Replacement Trials. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
338. Guyer RD, Darwish A, Blumenthal SL, Zigler JE, Ohnmeiss DD: Lumbar Total Disc Replacement vs. Fusion: Analysis of Cost Comparison Studies. International Society for the Advancement of Spine Surgery April, 2011; Las Vegas, Nevada.
339. Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD, Verma-Kurvari S: Reported Re-Operations in Lumbar Total Disc Replacement: Analysis of the Literature. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
340. Hyder Z, Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Meta-Analysis of Lumbar Total Disc Replacement FDA-Regulated Trials: A Missed Opportunity. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
341. Blumenthal S, Guyer R, Zigler J, Ohnmeiss D: Anterior Re-Operation at the Same Level Following Lumbar Total Disc Replacement. International Society for the Lumbar Spine. June, 2011; Gothenburg, Sweden.
342. Duffy M, Saqqa S, Zigler J, Guyer R, Ohnmeiss D, Blumenthal S: Treatment Options for Two-Level Symptomatic Disc Degeneration: Comparison of Total Disc Replacement, Fusion, and Hybrid. International Society for the Lumbar Spine. June, 2011; Gothenburg, Sweden.
343. Ohnmeiss D, Blumenthal S, Guyer R: Investigating the Potential Effect of “Euphoric Bias” for the New Technology on Results of Randomized Lumbar Total Disc Replacement Trials. International Society for the Lumbar Spine. June, 2011; Gothenburg, Sweden.
344. Guyer R, Darwish A, Blumenthal S, Ohnmeiss D, Zigler J: Lumbar Total Disc Replacement vs. Fusion: Analysis of Cost Comparison Studies. International Society for the Lumbar Spine. June, 2011; Gothenburg, Sweden.
345. Hisey M: Results of US FDA-IDE Clinical Trial Validate Early European Experience with Mobi-C® Artificial Cervical Disc. Cervical Spine Research Society-European Section. June, 2011; Istanbul, Turkey.
346. Guyer RD, Thongtrangan I, Ohnmeiss DD, Zigler JE, Atanasov AM: Health-Related Quality of Life: How Does Symptomatic Disc Degeneration and Its Treatment with Total Disc Replacement Compare to Other Medical Conditions? International Meeting on Advanced Spine Techniques. July, 2011; Copenhagen, Denmark.
347. Guyer RD, Darwish A, Blumenthal SL, Zigler JE, Ohnmeiss DD: Lumbar Total Disc Replacement vs. Fusion: Analysis of Cost Comparison Studies. International Meeting on Advanced Spine Techniques. July, 2011; Copenhagen, Denmark.

348. Guyer RD, Blumenthal SL, Zigler JE, Ohnmeiss DD: Investigating the Potential Effect of “Euphoric Bias” for the New Technology on Results of Randomized Lumbar Total Disc Replacement Trials. International Meeting on Advanced Spine Techniques. July, 2011; Copenhagen, Denmark.
349. Hyder Z, Guyer RD, Ohnmeiss DD, Blumenthal SL, Zigler JE: Meta-Analysis of Lumbar Total Disc Replacement FDA-Regulated Trials: A Missed Opportunity. International Meeting on Advanced Spine Techniques. July, 2011; Copenhagen, Denmark.
350. Guyer RD, Samocha Y, Ohnmeiss DD, Blumenthal SL, Zigler JE: Cervical Total Disc Replacement vs. Anterior Cervical Fusion: Data from Four Prospective, Randomized, Multicenter Trials. International Meeting on Advanced Spine Techniques. July, 2011; Copenhagen, Denmark.
351. Lieberman IH, Ohnmeiss DD. Robotic-Assisted Pedicle Screw Placement in Complex Spinal Surgery: What was Learned from the First 35 Consecutive Patients. International Meeting on Advanced Spine Techniques. July, 2011; Copenhagen, Denmark
352. Block AR, Ben-Porath Y, Burchett D, Ohnmeiss DD: Presurgical Psychological Screening: A New Algorithm, including the MMPI-2-RF, for Predicting Surgery Results. North American Spine Society. November, 2011; Chicago, Illinois.
353. Guyer RD, Samocha Y, Ohnmeiss DD, Zigler JE, Blumenthal SL: Cervical Total Disc Replacement vs. Anterior Cervical Fusion: Data from Four Prospective, Randomized, Multicenter Trials. North American Spine Society. November, 2011; Chicago, Illinois.
593. Morrison T, Guyer RD, Hisey MS, Atanasov A, Ohnmeiss DD, Zigler JE, Blumenthal SL: Clinical Outcomes of Stand-Alone Anterior Lumbar Interbody Fusion. AO Spine Fellows’ Forum. March, 2012; Banff, Alberta, Canada.
594. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Impact of Cervical Symptoms on Ability to Participate in Recreational Activities. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.
595. Edwards K, Hisey MS, Bradley WD, Ohnmeiss DD, Zigler JE, Guyer RD: Extreme Lateral Interbody Fusion (XLIF): Clinical Results from One Center. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.
596. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Analysis of Outcome Stability Following Surgery Involving a Cervical Spine Implant. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.
597. Lieberman I, Hu X: Does Maintenance/Restoration of Segmental Lordosis Contribute to the Outcome of ACDF Patients? A Pilot Study. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.
598. Whang PG, Bradley WD, Miller LE, Block JE: Mid-term Results of a Minimally Invasive Interspinous Spacer in Patients with Lumbar Spinal Stenosis: A Randomized Controlled IDE Trial. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.
599. Davis RJ, Gaede SE, Hisey MS, Kim KD, Nunley DP, Peterson DL, Stokes JK: Functional Improvement After Total Disc Arthroplasty at 1 and 2 Levels of the Cervical Spine: 36

- Month Follow-Up of an FDA IDE Clinical Trial. AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. March, 2012; Orlando, Florida.
600. Block AR, Ohnmeiss DD, Guyer RD, Atanasov A, Ben-Porath Y: Relationship between Pain, Patient Expectations, and Satisfaction Following Spine Surgery. SpineWeek - International Society for the Study of the Lumbar Spine Section. May, 2012; Amsterdam, The Netherlands.
 601. Lieberman IH, Sparks J, Ohnmeiss DD, Verma-Kurvari S, Guyer RD, Zigler JE: Comparison of Manual and OfficePACS-Based Digital Methods for Cobb Angle Measurements in Patients with Spinal Deformity. SpineWeek - International Society for the Study of the Lumbar Spine Section. May, 2012; Amsterdam, The Netherlands.
 602. Ohnmeiss DD, Thongthang I, Guyer RD, Zigler JE, Atanasov AM: Evaluating Symptomatic Lumbar Disc Degeneration and Its Treatment in the Context of Other Medical Conditions. SpineWeek - International Society for the Study of the Lumbar Spine Section. May, 2012; Amsterdam, The Netherlands.
 603. Block AR, Ohnmeiss DD, Guyer RD, Atanasov A, Ughwanogho E, Ben-Porath Y: Workers Compensation Versus Non Workers Compensation: Personality Differences. SpineWeek - International Society for the Study of the Lumbar Spine Section. May, 2012; Amsterdam, The Netherlands.
 604. Morrison T, Guyer RD, Hisey MS, Atanasov A, Ohnmeiss DD, Blumenthal SL, Zigler JE: Clinical Outcomes of Stand-Alone Anterior Lumbar Interbody Fusion. SpineWeek - International Society for the Study of the Lumbar Spine Section. May, 2012; Amsterdam, The Netherlands.
 605. Guyer RD, Blumenthal SL, Zigler JE, Ohnmeiss DD, Verma-Kurvari S: Re-operations in Lumbar Total Disc Replacement: Analysis of the Literature. SpineWeek - North American Spine Society Section. May, 2012; Amsterdam, The Netherlands.
 606. Guyer RD, Ohnmeiss DD, Blumenthal SL, Zigler JE: Comparison of Re-Operations in Cervical Total Disc Replacement Versus Anterior Cervical Fusion. SpineWeek - North American Spine Society Section. May, 2012; Amsterdam, The Netherlands.
 607. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Impact of Cervical Symptoms on Ability to Participate in Recreational Activities. SpineWeek - North American Spine Society Section. May, 2012; Amsterdam, The Netherlands.
 608. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Analysis of Outcome Stability Following Surgery Involving Cervical Spine Implant. SpineWeek - North American Spine Society Section. May, 2012; Amsterdam, The Netherlands.
 609. Hisey MS, Edwards K, Ohnmeiss DD, Verma-Kurvari S, Guyer RD, Zigler JE: Extreme Lateral Interbody Fusion (XLIF): Clinical Results. SpineWeek - North American Spine Society Section. May, 2012; Amsterdam, The Netherlands.
 610. Lieberman IH, Sparks J, Hu X, Ohnmeiss DD, Verma-Kurvari S, Guyer RD, Zigler JE: Comparison of Manual and OfficePACS-Based Digital Methods for Cobb Angle Measurements in Patients with Spinal Deformity. International Meeting on Advanced Spine Techniques. July, 2012; Istanbul, Turkey.

611. Lieberman IL, Hu X: Does Maintenance/Restoration of Cervical Lordosis Improve Outcome after ACDF? International Meeting on Advanced Spine Techniques. July, 2012; Istanbul, Turkey.
612. Lieberman IL, Hu X: Use of Ultrasonic BoneScalpel in Spine Surgeries: Experience from the First 58 Patients. International Meeting on Advanced Spine Techniques. July, 2012; Istanbul, Turkey.
613. Block AR, Ben-Porath Y, Ohnmeiss DD, Guyer RD, Marek R: Psychosocial Factors and Expectancy Contribute Separately to Spine Surgery Outcome. North American Spine Society. October, 2012; Dallas, Texas.
614. Delamarter R, Zigler JE: Does Two-Level 360° Lumbar Spinal Fusion Improve Long-Term Clinical Outcomes After Failure of Conservative Treatment in Patients with Functionally Disabling Two-Level Degenerative Lumbar Disc Disease? Results of Five-Year Follow-Up in Fifty-Two Randomized Postoperative Patients. North American Spine Society. October, 2012; Dallas, Texas.
615. Davis R, Araghi A, Bae H, Hisey MS, Nunley PD: Comparison of Complication Rates Associated with Two-Level Cervical Arthroplasty Versus Two-Level Anterior Cervical Discectomy and Fusion North American Spine Society. October, 2012; Dallas, Texas.
616. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE: Impact of Cervical Symptoms on Ability to Participate in Recreational Activities. Cervical Spine Research Society. December, 2012; Chicago, Illinois.
617. Bonsignore C, Bradley WD, Hisey MS, Verma-Kurvari S, Ohnmeiss DD: Clinical Outcome Following a Minimally Invasive Lumbar Decompression Technique for the Treatment of Lumbar Spinal Stenosis. AO Spine Fellows' Forum. March, 2013; Banff, Alberta, Canada.
618. Hu X, Lieberman IH: Safety and Efficacy of a Novel Ultrasonic Osteotome Device in Spine Surgeries. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
619. Lieberman IH, Sparks J, Ohnmeiss DD, Verma-Kurvari S, Guyer RD, Zigler JE: Cobb Angle Measurements in Patients with Spinal Deformity: OFFICEPACS-based Digital Method Compared with Traditional Manual Measurements. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
620. Hu X, Lieberman IH: The Learning Curve of Robotic Assisted Pedicle Screw Placement in Spine Surgery. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
621. Ughwanogho E, Hu X, Lieberman IH: Robotic Assisted Surgeries for the Treatment of Metastatic Spine Tumors: Experience in Five Cases. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
622. Ohnmeiss DD: The Peer-reviewed Publication Rate of Abstracts Presented at ISASS and Comparison with Other Conferences. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.

623. Spivak JM, Delamarter RB, Murrey DB, Zigler JE, Janssen M, Goldstein JA: Adjacent Level Radiographic Degenerative Changes Following Single Level Artificial Disc Replacement or ACDF at 5-7 Year Follow-up. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
624. Bae HW, Beaurain J, Bernard P, Thierry D, Fuentes JM, Hovorka A, Huppert J, Jodaitis A, Kim K, Rashbaum R, Steib JP, Vital JM: Biomechanical Testing of the Mobi-C® Cervical Artificial Disc. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
625. Bradley WD, Whang PG: Prospective, Randomized, Multicenter Study Comparing the Clinical Outcomes of Two Minimally Invasive Interspinous Devices for the Treatment of Lumbar Spinal Stenosis. International Society for the Study of the Lumbar Spine. May, 2013; Scottsdale, Arizona.
626. Guyer RD, Shivers J, Ohnmeiss DD, Zigler JE: Implementation and Impact of Pre-operative Peer Case Review in a Spine Practice. International Society for the Study of the Lumbar Spine. May, 2013; Scottsdale, Arizona.
627. Belanger TA, Ohnmeiss DD: Impact of Cervical Symptoms on Recreational Activities. Cervical Spine Research Society – European Section. May, 2013; Bordeaux, France.
628. Whang PG, Patel VV, Bradley WD, Block JE: Midterm Outcomes of a Prospective Multicenter Randomized Controlled Trial Comparing the Clinical Efficacy of Interspinous Spacers as a Treatment for Moderate Lumbar Spinal Stenosis. North American Spine Society. October, 2013; New Orleans, Louisiana.
629. Davis RJ, Hoffman GA, Bae HW, Hisey MS, Rashbaum RF, Nunley PD, Peterson DL, Stokes J: Risk Factors and Clinical Outcomes of Patients with Adjacent Segment Degeneration After CDA or ACDF at Two Levels. North American Spine Society. October, 2013; New Orleans, Louisiana.
630. Davis RJ, Hoffman GA, Bae HW, Hisey MS, Rashbaum RF, Nunley PD, Peterson DL, Stokes J: Cervical Disc Arthroplasty Results in Fewer Secondary Surgeries Through 48 Months Compared to ACDF: Results for a Prospective Randomized IDE Study for Two-Level Use. North American Spine Society. October, 2013; New Orleans, Louisiana.
631. Davis RJ, Bae H, Gaede S, Hisey MS, Kim K, Nunley P: Cervical Disc Arthroplasty and ACDF at Two Levels: Four Year Results from an Investigational Device Exemption. Cervical Spine Research Society. December, 2013; Los Angeles, California.
632. Davis RJ, Bae H, Hisey MS, Kim K, Nunley P, Gaede S: Cervical Total Disc Replacement Results in Lower Incidence of Radiographic Degeneration than ACDF at Two Levels. Cervical Spine Research Society. December, 2013; Los Angeles, California.
633. Rogers RW, Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Clinical Outcomes Following Anterior Cervical Hybrid Surgery Using Total Disc Replacement Combined with Anterior Cervical Fusion at the Adjacent Segment. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.

634. Blumenthal SL: Randomized Study of Anular Repair Readmission Rates Following Discectomy. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
635. Rashbaum RF, Verma-Kurvari S, Ohnmeiss DD: Spinal Cord Stimulator Re-operations: Review of Cases from One Practice. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
636. Lieberman IH, Siemionow K, Hu X: Thoracic and Lumbar Vertebrae Morphology in Lenke Type 1 Female Adolescent Idiopathic Scoliosis Patients: A Fine CT Scan Based Analysis. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
637. Owusu A, Zigler JE, Ohnmeiss DD, Guyer RD: Pregnancy after Lumbar Total Disc Replacement. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
638. Blumenthal SL: Replacement of Cervical Total Disc Replacement International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
639. Lieberman IH, Hu X: Spinal Myeloid Sarcoma "Chloroma" Presenting as Cervical Radiculopathy: A Case Report. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
640. Lieberman IH, Hu X: Research Publication Trends in Five Major Spine Journals. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
641. Lieberman IH, Hu X: Primary or Metastatic Spine Tumors with Back/Neck and/or Radicular Pain as Initial Presentation: Experience from a Scoliosis and Spine Tumor Center at a Community Hospital. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
642. Carmody C, Ohnmeiss DD: Clinical Outcomes of Lumbar Fusion Using a Truss Technology Based Interbody Fusion Cage. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.

Presentations at Major Symposia

1. Guyer RD: Discography and CT/Discography. Clinical Orthopedic Society, October, 1986; Fort Worth, Texas.
2. Hochschuler SH: "PERC" (Percutaneous Discectomy). Keystone Spine Meeting. March, 1990; Keystone, Colorado.
3. Guyer RD: Injection Techniques. Keystone Spine Meeting. March, 1990; Keystone, Colorado.
4. Guyer RD: Post-op Care. Keystone Spine Meeting. March, 1990; Keystone, Colorado.
5. Hochschuler SH: Diagnosing Low Back Pain. Keystone Spine Meeting. March, 1990; Keystone, Colorado.

6. Hochschuler SH: The Spine in Sports. North American Spine Society Instructional Course lecture. August, 1990; Monterey, California.
7. Guyer RD, Ohnmeiss DD, Hochschuler SH, Stith WJ, Rashbaum RF, Regan JJ: The Use of CT/Discography to Identify Recurrent Disc Herniation Not Visualized by Gadolinium Enhanced MRI. Mid-American Orthopaedic Association. April, 1991; Palm Springs, California.
8. Hochschuler SH: Laser Therapy: What, How, and When? American Academy of Orthopaedic Surgeons Course: Problems in Spine Surgery. June, 1993; San Diego, California.
9. Hochschuler SH: (Pro) Non-Automated Perc/Laser; Success and Role. American Academy of Orthopaedic Surgeons Course: Problems in Spine Surgery. June, 1993; San Diego, California.
10. Hochschuler SH: Discography (Pro): Value and Indications. American Academy of Orthopaedic Surgeons Course: Problems in Spine Surgery. June, 1993; San Diego, California.
11. Hochschuler SH: Reflex Sympathetic Dystrophy. American Academy of Orthopaedic Surgeons Course: Problems in Spine Surgery. June, 1993; San Diego, California.
12. Triano JJ: Chronic Low Back Pain: A Clinical Trial of Benefits from SMT. International Conference on Spinal Manipulation. 1994; Palm Springs, California.
13. Triano JJ: Rating of Skill in SMT. International Conference on Spinal Manipulation. 1994; Palm Springs, California.
14. Triano JJ: Respiratory Burst (RB) Activity as a Function of Manipulation Site. International Conference on Spinal Manipulation. 1994; Palm Springs, California.
15. Triano JJ: Transmitted Loads during Lumbosacral SMT. International Conference on Spinal Manipulation. 1994; Palm Springs, California.
16. Triano JJ: Biomechanical Parameters of Skill in Lumbar SMT. International Conference on Spinal Manipulation. 1994; Palm Springs, California.
17. Triano JJ: Rating of Skill in Lumbar SMT. International Conference on Spinal Manipulation. 1994; Palm Springs, California.
18. Triano JJ: Motion segment Buckling: An Evidence-Based Hypothesis of the Mechanisms of Manipulation. International Conference on Spinal Manipulation. 1994; Palm Springs, California.
19. Guyer RD: Mini Open Spinal Fusion. New Frontiers in Spine Surgery. April, 1996; Strasbourg, France.
20. Zigler JE: Cervical Spondylotic Myelopathy. Brazilian Spinal Injury Association. June, 1998; Foz Iguassu, Brazil.
21. Zigler JE: Instructor, Spine Course. January, 1999; Whistler, British Columbia, Canada.

22. Zigler JE: Rheumatoid Arthritis of the Cervical Spine. Brazilian Spine Societies. September, 1999; Commandatuba, Brazil.
23. Guyer RD: Lumbar Interbody Fusion Cages in the Management of Chronic Low Back Pain. JPSSSTS Conference. September, 2000; Tokyo, Japan.
24. Zigler JE: Spinal Cord Injury Treatment. SBOT 2000. November, 2000; Rio de Janeiro, Brazil.
25. Zigler JE: Spinal Surgery in the Elderly. JPSSSTSS. September, 2001; Kyoto, Japan.
26. Patterson M: Estimulacion electrica intradiscal. Curso Annual De La Sociedad De Ortopedia Y Traumatologia De Nuevo Leon A.C. June, 2001; Monterrey, Mexico.
27. Hochschuler S: Historia del desarrollo del disco artificial. Curso Annual De La Sociedad De Ortopedia Y Traumatologia De Nuevo Leon A.C. June, 2001; Monterrey, Mexico.
28. Hochschuler S: Parametros racionales y biomecanicos en el reemplazo del disco intervertebral. Curso Annual De La Sociedad De Ortopedia Y Traumatologia De Nuevo Leon A.C. June, 2001; Monterrey, Mexico.
29. Rashbaum R: Causas del syndrome de cirugia fallida. Curso Annual De La Sociedad De Ortopedia Y Traumatologia De Nuevo Leon A.C. June, 2001; Monterrey, Mexico.
30. Rashbaum R: Estimulacion de la medula espinal como tratamiento del syndrome de cirugia fallida. Curso Annual De La Sociedad De Ortopedia Y Traumatologia De Nuevo Leon A.C. June, 2001; Monterrey, Mexico.
31. Hochschuler S: Experiencia temprana en norteamerica con el disco SB Charite 3. Curso Annual De La Sociedad De Ortopedia Y Traumatologia De Nuevo Leon A.C. June, 2001; Monterrey, Mexico.
32. Hochschuler SH: Facet Joint Replacement. (Symposium: Artificial Intervertebral Discs and Beyond). North American Spine Society. November, 2001 Seattle, Washington.
33. Ohnmeiss DD: Preparing Educational Materials. (Symposium: Information Technology). North American Spine Society. November, 2001; Seattle, Washington.
34. Sachs BL: Robotics in Spine Surgery (Symposium: Information Technology). North American Spine Society. November, 2001; Seattle, Washington.
35. Blumenthal SL: Artificial Discs and Beyond" (Symposium Moderator and Organizer). North American Spine Society. November, 2001; Seattle, Washington.
36. Guyer RD: General Indications and Contraindications for Disc Replacement (Symposium: Artificial Intervertebral Discs and Beyond). North American Spine Society. November, 2001; Seattle, Washington.
37. Zigler JE: ProDisc Total Disc Replacement. (Symposium) American Academy of Orthopaedic Surgeons. February, 2002; Dallas, Texas.
38. Hochschuler SH: Facet Joint Replacement. (Symposium) American Academy of Orthopaedic Surgeons. February, 2002; Dallas, Texas.

39. Sachs BL: Disc Nucleus Replacement. (Symposium) American Academy of Orthopaedic Surgeons. February, 2002; Dallas, Texas.
40. Guyer RD: Early US Experience with the Charité Artificial Disc. (Symposium) American Academy of Orthopaedic Surgeons. February, 2002; Dallas, Texas.
41. Rashbaum RF: Failed Back Surgery Syndrome: How Did we Get Here? (Symposium: Failed Back Syndrome). American Pain Society. March, 2002; Baltimore, Maryland.
42. Block AR: Psychological Screening of Spine Surgery Candidates (Symposium: Failed Back Syndrome). American Pain Society. March, 2002; Baltimore, Maryland.
43. Ohnmeiss DD: Treatment of Failed Back Surgery Syndrome. (Symposium: Failed Back Surgery Syndrome). American Pain Society. March, 2002; Baltimore, Maryland.
44. Zigler JE: Cervical Fusion with Allograft. Lumbar Disc Arthroplasty. Clinical Challenges and Advancements in Spine Surgery. July, 2002; Carlsbad, California.
45. Zigler JE: ProDisc. Emerging Technologies in Spine. October, 2002; Washington, D.C.
46. Guyer RD: Diagnostic Work-up of Spinal Instability. Dynamic Spine Stabilization. October, 2002; Plano, Texas.
47. Triano JJ: Keynote Lecture: Chiropractic Research, People, Era, Trends. Second Canadian Chiropractic Scientific Symposium. October, 2000; Toronto, Canada.
48. Guyer RD: Experience with Allografts in Spine Surgery. What's New in Orthopaedic Grafting Techniques and Tissue Banking. November, 2002; Dallas, Texas.
49. Zigler JE: Surgical Approaches for Cervical Myelopathy. Brazilian Spinal Injury Association. December, 2002; Sao Paulo, Brazil.
50. Hochschuler SH: Future of New Product Development and Growth in the Spine Market. Dynamic Spine Stabilization. November, 2002; Plano, Texas.
51. Rashbaum FR: Instructor at the 15th Annual Disorders of the Spine. Whistler, Canada; January, 2003.
52. Blumenthal SL: Artificial Disc Update. Texas Spine Society. April, 2003; Austin, Texas.
53. Triano JJ: Bare Bones of Subluxation: Modern Evidence of Behavior and Mechanisms. European Chiropractors' Union. May, 2003; Heidelberg, Germany.
54. Triano JJ: Skills in Spinal Manipulation: Improving Clinical Effectiveness. European Chiropractors' Union. May, 2003; Heidelberg, Germany.
55. Triano JJ: Evaluation and Management of Sacroiliac Joint Disorders. European Chiropractors' Union. May, 2003; Heidelberg, Germany.
56. Guyer RD: Disc Replacement and Early US Results. Brazilian Spine Society. June, 2003; Fortaleza, Brazil.
57. Guyer RD: Vertebroplasty. Brazilian Spine Society. June, 2003; Fortaleza, Brazil.

58. Guyer RD: Preliminary results of the prospective randomized FDA Study Comparing Fusion Versus SB Charité Total Disc Arthroplasty. Non-Fusion Technology “A State of the Art Debate”. December, 2003; New York, New York/Zurich, Switzerland.
59. Sachs BL: Preliminary results of the prospective randomized FDA Study comparing fusion versus ProDisc Arthroplasty. Non-Fusion Technology “A State of the Art Debate”. December, 2003; New York, New York/Zurich, Switzerland.
60. Blumenthal SL: Preliminary Results of the Prospective Randomized FDA Study Comparing Fusion versus SB Charité Total Disc Arthroplasty. Non-Fusion Technology “A State of the Art Debate”. December, 2003; New York, New York/Zurich, Switzerland.
61. Blumenthal SL: Debate about the Conversion Process from Fusion to Total Disc Arthroplasty. Non-Fusion Technology “A State of the Art Debate”. December, 2003; New York, New York/Zurich, Switzerland.
62. Hochschuler SH: Complications and potential Problems in Current Total Disc Replacement Devices. Non-Fusion Technology “A State of the Art Debate”. December, 2003; New York, New York/Zurich, Switzerland.
63. Guyer RD: Principles of Dynamic Stabilization. Non-Fusion Technology “A State of the Art Debate”. December, 2003; New York, New York/Zurich, Switzerland.
64. Sachs BL: Clinical Indications for Dynamic Stabilization. Non-Fusion Technology “A State of the Art Debate”. December, 2003; New York, New York/ Zurich, Switzerland.
65. Hochschuler SH: The future of New Product Development and Growth in Spinal Market. Non-Fusion Technology “A State of the Art Debate”. December, 2003; New York, New York/Zurich, Switzerland.
66. Araghi A: Anatomy & Physiology: DDD Related to the Pathophysiology of Specific Non-Fusion Surgical Treatment Options. Dynamic Spine Stabilization. November, 2003; Plano, Texas.
67. Zigler JE: The Lumbar Spinal Instability Syndrome. Dynamic Spine Stabilization. November, 2003; Plano, Texas.
68. Guyer RD: Clinical Diagnostics for Spinal Motion Abnormality. Dynamic Spine Stabilization. November, 2003; Plano, Texas.
69. Sachs BL: Repair of Abnormal Anatomy Defines the Technical Surgical Approaches: Annulus, Nucleus, Facets and Ligaments. Dynamic Spine Stabilization. November, 2003; Plano, Texas.
70. Sachs BL: History of Disc Replacement Technology. Dynamic Spine Stabilization. November, 2003; Plano, Texas.
71. Hisey MS: Principles of Dynamic Stabilization. Dynamic Spine Stabilization. November, 2003; Plano, Texas.
72. Sachs BL: History of Nuclear Disc Replacement Technology. Dynamic Spine Stabilization. November, 2003; Plano, Texas.

73. Guyer RD: Unconstrained: Link SB Charité' III Disc (U.S. Experience). Dynamic Spine Stabilization. November, 2003; Plano, Texas.
74. Zigler JE: Semi-Constrained: ProDisc (U.S. Experience). Dynamic Spine Stabilization. November, 2003; Plano, Texas.
75. Blumenthal SL: Biomechanics of the Charité Artificial Disc. Dynamic Spine Stabilization. November, 2003; Plano, Texas.
76. Triano JJ: Posterior Lumbar Column Disease Syndromes: Evaluation, Diagnosis, Thoughts on Future. Dynamic Spine Stabilization. November, 2003; Plano, Texas.
77. Triano JJ: Rehabilitation Considerations for Dynamic Spine Stabilization. Dynamic Spine Stabilization. November, 2003; Plano, Texas.
78. Hochschuler SH: The Future of New Product Development and Growth in the Spine Market. Dynamic Spine Stabilization. November, 2003; Plano, Texas.
79. Guyer RD: Results of Charite Total Disc Replacement: Historical. Curso Internacional Chileno Norteamericano de Columna Vertebral. August, 2004; Santiago, Chile.
80. Guyer RD: History of Total Lumbar Disc Replacement. Curso Internacional Chileno Norteamericano de Columna Vertebral. August, 2004; Santiago, Chile.
81. Guyer RD: The Role of ALIF. Curso Internacional Chileno Norteamericano de Columna Vertebral. August, 2004; Santiago, Chile.
82. Guyer RD: Clinical and Radiological Diagnostics for Spinal Motion Abnormalities. Curso Internacional Chileno Norteamericano de Columna Vertebral. August, 2004; Santiago, Chile.
83. Hochschuler SH: The Spine Arthroplasty Society and Education for New Devices. Curso Internacional Chileno Norteamericano de Columna Vertebral. August, 2004; Santiago, Chile.
84. Hochschuler SH: Front and Back Lumbar Fusion: Front and Back Lumbar Fusion the 360°. Curso Internacional Chileno Norteamericano de Columna Vertebral. August, 2004; Santiago, Chile.
85. Hochschuler SH: Can Threaded Fusion Cages Be Used as Stand Alone Devices? Curso Internacional Chileno Norteamericano de Columna Vertebral. August, 2004; Santiago, Chile.
86. Zigler JE: Results of ProDisc Total Disc Replacement: Historical. Curso Internacional Chileno Norteamericano de Columna Vertebral. August, 2004; Santiago, Chile.
87. Zigler JE: Cervical Artificial Disc: ProDisc "C". Curso Internacional Chileno Norteamericano de Columna Vertebral. August, 2004; Santiago, Chile.
88. Zigler JE: Surgical Options for Cervical Spondylotic Myelopathy. Curso Internacional Chileno Norteamericano de Columna Vertebral. August, 2004; Santiago, Chile.
89. Guyer RD: Charite. Innovative Techniques in Spine Surgery. August, 2004; Los Cabos, Mexico.

90. Zigler JE: ProDisc. Innovative Techniques in Spine Surgery. August, 2004; Los Cabos, Mexico.
91. Hochschuler SH: Indications for 360 Fusion in Degenerative Disc Disease. Chinese Speaking Orthopaedic Society and American Academy of Orthopaedic Surgeons. September, 2004; Beijing, China.
92. Hochschuler SH: Charite Disc Replacement, Biomechanics, and Clinical. Chinese Speaking Orthopaedic Society and American Academy of Orthopaedic Surgeons. September, 2004; Beijing, China.
93. Guyer RD: Surgical techniques and FDA data. International Symposium Non-Fusion techniques in Spinal Surgery. September, 2004; Milan, Italy.
94. Guyer RD: Unconstrained Lumbar Disc Prosthesis Long Term Follow-up. Non-Fusion Techniques in Spinal Surgery. September, 2004; Milan, Italy.
95. Guyer RD: The Case for Motion. Emerging Technologies in Spine Surgery. September - October, 2004; Washington, D.C.
96. Guyer RD: Clinical Experience with Charite. Emerging Technologies in Spine Surgery. September - October, 2004; Washington, D.C.
97. Guyer RD: SB Charité III Study. 2nd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2004; Dallas, Texas/Basel, Switzerland.
98. Zigler JE: ProDisc Study. 2nd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2004; Dallas, Texas/Basel, Switzerland.
99. Araghi A: Surgical Decision Making and Upright MRI. 2nd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2004; Dallas, Texas/Basel, Switzerland.
100. Hisey MS: Interspinous Device Review. 2nd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2004; Dallas, Texas/Basel, Switzerland.
101. Rashbaum RF: Spinal Cord Stimulation. 2nd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2004; Dallas, Texas/Basel, Switzerland.
102. Sachs BL: Nucleus Replacement. 2nd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2004; Dallas, Texas/Basel, Switzerland.
103. Rashbaum RF: Chemonucleolysis. 2nd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2004; Dallas, Texas/Basel, Switzerland.
104. Hochschuler SH: Robotics and Image Guidance in Spine S. 2nd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2004; Dallas, Texas/Basel, Switzerland.
105. Guyer RD: MIS Approach with Atavi. 2nd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2004; Dallas, Texas/Basel, Switzerland.
106. Sachs BL: ADR Complications. 2nd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2004; Dallas, Texas/Basel, Switzerland.

107. Zigler JE: Lumbar Disc Arthroplasty. Current Concepts in Spinal Disorders. February, 2005; Las Vegas Lakes, Nevada.
108. Hochschuler SH: Experience with Spine Arthroplasty. Preservation of Motion in the Lumbar Spine. March, 2005; Duck Key, Florida.
109. Blumenthal SL: Charite. Texas Spine Society. April, 2005; Austin, Texas.
110. Rashbaum RF: ProDisc. Texas Spine Society. April, 2005; Austin, Texas.
111. Hochschuler SH: Minimally Invasive Spine Surgery. International Spine Patient Symposium. May, 2005; New York, New York.
112. Hochschuler SH: Failed Back Surgery Syndrome. International Spine Patient Symposium. May, 2005; New York, New York.
113. Hochschuler SH: Rehabilitation. International Spine Patient Symposium. May, 2005; New York, New York.
114. Hochschuler SH: Spinewave. International Spine Patient Symposium. May, 2005; New York, New York.
115. Blumenthal SL: X-STOP (IPD) Interspinous Process Decompression. Live Instructional Non-Fusion Spine Course. May, 2005; New York, New York.
116. Guyer RD: Live Surgery: Total Artificial Disc Prosthesis – Lumbar (broadcast from Switzerland). Live Instructional Non-Fusion Spine Course. May, 2005; New York, New York.
117. Zigler JE: Live Surgery: Total Artificial Disc Prosthesis –(broadcast from Switzerland). Live Instructional Non-Fusion Spine Course. May, 2005; New York, New York.
118. Guyer RD, Stoll J: Debate: Artificial Lumbar Disc vs. Traditional Fusion. Emerging Technologies in Spine Surgery. June, 2005; Las Vegas, Nevada.
119. Hisey HS: The Role of Image Guidance in Minimally Invasive Spine Procedures. Emerging Technologies in Spine Surgery. June, 2005; Las Vegas, Nevada.
120. Guyer RD: Charite. Innovative Techniques in Spine Surgery. July, 2005; Los Cabos, Mexico.
121. Zigler JE: ProDisc. Innovative Techniques in Spine Surgery. July, 2005; Los Cabos, Mexico.
122. Guyer RD: Clinical Issues with the Charite. Emerging Technology meeting. September, 2005; Washington, D.C.
123. Guyer RD: Teeth Anchoring. 3rd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2005; Dallas, Texas/Zurich, Switzerland.
124. Zigler JE: Keel Anchoring. 3rd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2005; Dallas, Texas/Zurich, Switzerland.
125. Hisey MS: Nuclear Replacements. 3rd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2005; Dallas, Texas/Zurich, Switzerland.

126. Bradley WD: Biological Therapies. 3rd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2005; Dallas, Texas/Zurich, Switzerland.
127. Sachs BL: Facet Joint Replacements. 3rd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2005; Dallas, Texas/Zurich, Switzerland.
128. Rashbaum RF: Mobi-C. 3rd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2005; Dallas, Texas/Zurich, Switzerland.
129. Rashbaum RF: Mobidisc. 3rd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2005; Dallas, Texas/Zurich, Switzerland.
130. Guyer RD: Update on Charite. 3rd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2005; Dallas, Texas/Zurich, Switzerland.
131. Zigler JE: Update on ProDisc. 3rd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2005; Dallas, Texas/Zurich, Switzerland.
132. Guyer RD: Charité. Non Fusion Technologies in Spinal Surgery. November, 2005; Brussels, Belgium.
133. Guyer RD: The TOPS System. Non Fusion Technologies in Spinal Surgery. November, 2005; Brussels, Belgium.
134. Hisey MS: IRB Protocols. Disorders of the Spine. January, 2006; Whistler, Canada.
135. Hochschuler SH: Revision Strategies for Spinal Arthroplasty. Disorders of the Spine. January, 2006; Whistler, Canada.
136. Blumenthal SL: Disorders of the Spine. January, 2006; Whistler, Canada.
137. Hochschuler SH: Spine Centers of Excellence. Current Concepts in Spinal Disorders. February, 2006; Las Vega, Nevada.
138. Zigler JE: ProDisc Artificial Disc Replacement (Cervical). Current Concepts in Spinal Disorders. February, 2006; Las Vega, Nevada.
139. Zigler JE: ProDisc. Current Concepts in Spinal Disorders. February, 2006; Las Vega, Nevada.
140. Blumenthal S: 5-year Follow-up of Patients Enrolled in the Charite Artificial Disc IDE Study. Spine Arthroplasty Summit. February, 2006; Salt Lake City, Utah.
141. Guyer RD: An Economic Analysis of Lumbar Arthroplasty vs. Fusion. Spine Arthroplasty Summit. February, 2006; Salt Lake City, Utah.
142. Guyer RD: Patient Selection: L4/5 / Patients Aged 45-60. Spine Arthroplasty Summit. February, 2006; Salt Lake City, Utah.
143. Zigler JE: Arthroplasty (Pro, debate on Motion vs. Fusion). Spinal Cord Injury. March, 2006, Japan.
144. Hochschuler SH: Interspinous Stabilization: Rational, Technique & Results. The Lumbar Intervertebral Disc: Current Concepts in Non Fusion Technology. April, 2006; Denver, Colorado.

145. Hochschuler SH: Horizons of New Technology: How This All Fits Together. The Lumbar Intervertebral Disc: Current Concepts in Non Fusion Technology. April, 2006; Denver, Colorado.
146. Blumenthal SL: Total Disc Replacement. Preservation of Motion in the Spine. April, 2006; Duck Key, Florida.
147. Guyer RD: Indications and Results of the S.B. Charite Arthroplasty Device Advanced Lumbar Spine Surgery: Minimally Invasive Surgery and Motion Preservation: A Hands-On Course. June, 2006; Memphis, Tennessee.
148. Hochschuler SH: Economics of Motion Preservation Surgery - The Future. Innovative Techniques in Spine Surgery. June, 2006; Los Cabos, Mexico.
149. Hochschuler SH: Wallis. Innovative Techniques in Spine Surgery. June, 2006; Los Cabos, Mexico.
150. Guyer RD: Charite. Innovative Techniques in Spine Surgery. June, 2006; Los Cabos, Mexico.
151. Guyer RD: Anterior Cervical Fusion. Simpósio Internacional de Coluna (SINCOL). August, 2006; Rio de Janeiro, Brazil.
152. Guyer RD: Dynamic Screw Fixation non-constrictive (Dynesys). Simpósio Internacional de Coluna (SINCOL). August, 2006; Rio de Janeiro, Brazil.
153. Guyer RD: Pseudoarthrosis – Diagnostic and Treatment. Simpósio Internacional de Coluna (SINCOL). August, 2006; Rio de Janeiro, Brazil.
154. Guyer RD: News Perspectives on the treatment of Degenerative Disc Disease. Simpósio Internacional de Coluna (SINCOL). August, 2006; Rio de Janeiro, Brazil.
155. Guyer RD: Spine Arthroplasty – Economic Impact. Simpósio Internacional de Coluna (SINCOL). August, 2006; Rio de Janeiro, Brazil.
156. Hisey M: Comparison of Existing Systems: Interspinous and Dynamic Screw Based. Guiding Panel for Spine. December, 2006; Jackson Hole, Wyoming.
157. Hochschuler SH: Clinical data on DS: Where is the Proof? Guiding Panel for Spine. December, 2006; Jackson Hole, Wyoming.
158. Araghi A: Pathfinder and Paramount: A Review and Comparison. Guiding Panel for Spine. December, 2006; Jackson Hole, Wyoming.
159. Bradley D: Alternate approaches: AxiaLIF and XLIF – Definition and Indications. Guiding Panel for Spine. December, 2006; Jackson Hole, Wyoming.
160. Blumenthal SL: Motion Preservation and Artificial Disk Technology: What Did the FDA IDE Data Demonstrate about TDR? Disorders of the Spine. January, 2007; Whistler, Canada.
161. Sachs BL: Adjacent Segment Degeneration – How Much of a Problem is This? Disorders of the Spine. January, 2007; Whistler, Canada.

162. Blumenthal S: Rationale for Arthroplasty. Controversies in Spine Surgery. February 2007; Cancun, Mexico.
163. Guyer RD: Lumbar Disc Replacement: Long-term Clinical and Radiographic Results. Current Concepts in Emerging Technologies in Spine. February, 2007; Vail, Colorado.
164. Guyer RD: Lumbar Motion vs. Fusion. Current Concepts in Emerging Technologies in Spine. February, 2007; Vail, Colorado.
165. Hochschuler SH: Charite Lumbar Artificial Disc. Current Concepts in Spinal Disorders. March, 2007; Las Vegas, Nevada.
166. Hochschuler SH: Wallis. Current Concepts in Spinal Disorders. March, 2007; Las Vegas, Nevada.
167. Hochschuler SH: Facet Arthroplasty. Current Concepts in Spinal Disorders. March, 2007; Las Vegas, Nevada.
168. Guyer RD: How Disc Replacement Fits in the Treatment Algorithm for Degenerative Disc Disease: Refining Indications for Disc Replacement. Stryker Spine International Symposium. April, 2007; Lisbon, Portugal.
169. Bradley D: Cervical Discs – LDR Mobi-C and Others. Texas Spine Society. May, 2007; Austin, Texas.
170. Hochschuler SH: Debate - Economics of Motion Preservation Surgery –The Future. Innovative Techniques in Spine Surgery. June, 2007; Los Cabos, Mexico.
171. Zigler JE: Lumbar Clinical Experience - ProDisc. Innovative Techniques in Spine Surgery. June, 2007; Los Cabos, Mexico.
172. Guyer RD: Myths of Spine Surgery. Neuroscience Lecture Series. August, 2007; Plano, Texas.
173. Guyer RD: Future of Healthcare in the US. Emerging Technologies Spine Education Summit. February, 2008; Jackson Hole, Wyoming.
174. Hochschuler SH: Indications – Patient Selection - Contraindications (Lumbar ADR). Current Concepts in Spinal Disorders. February, 2008; Las Vegas, Nevada.
175. Hochschuler SH: MobiDisc. Current Concepts in Spinal Disorders. February, 2008; Las Vegas, Nevada.
176. Hochschuler SH: L5-S1 TDR Better than Fusion (Debate). Current Concepts in Spinal Disorders. February, 2008; Las Vegas, Nevada.
177. Guyer RD: Charite Data. Current Concepts in Spinal Disorders. February, 2008; Las Vegas, Nevada.
178. Guyer RD: Kineflex. Current Concepts in Spinal Disorders. February, 2008; Las Vegas, Nevada.
179. Guyer RD: TDR Technology is Economically Feasible (Debate). Current Concepts in Spinal Disorders. February, 2008; Las Vegas, Nevada.

180. Guyer RD: Off-label Use of Innovative Medical Technologies. (Keynote Lecture) Current Concepts in Spinal Disorders. February, 2008; Las Vegas, Nevada.
181. Sachs BL: Cervical TDR is Not Better than Fusion (Debate). Current Concepts in Spinal Disorders. February, 2008; Las Vegas, Nevada.
182. Guyer RD: Future of Healthcare in the US. Emerging Technologies Spine Education Summit. February, 2008; Jackson Hole, Wyoming.
183. Guyer RD: Off-label Use of Innovative Medical Technology. Lumbar Spine Research Society. April, 2008; Chicago, Illinois.
184. Zigler JE: Medical Device Reporting: Issues with Class III Devices. Lumbar Spine Research Society. April, 2008; Chicago, Illinois.
185. Hochschuler SH: Lumbar Arthroplasty. World Congress on Minimally Invasive Spine Surgery Techniques. June, 2008; Honolulu, Hawaii.
186. Hochschuler SH: Annular Repair. World Congress on Minimally Invasive Spine Surgery Techniques. June, 2008; Honolulu, Hawaii.
187. Zigler JE: ProDisc. Innovative Techniques in Spine Surgery. June, 2008; Los Cabos, Mexico.
188. Hochschuler SH: Wallis. Innovative Techniques in Spine Surgery. June, 2008; Los Cabos, Mexico.
189. Hochschuler SH: Anatomic Design Facet Arthroplasty Device. Innovative Techniques in Spine Surgery. June, 2008; Los Cabos, Mexico.
190. Araghi A: Axient Dynamic Fixation. Innovative Techniques in Spine Surgery. June, 2008; Los Cabos, Mexico.
191. Guyer RD: Kineflex. Innovative Techniques in Spine Surgery. June, 2008; Los Cabos, Mexico.
192. Guyer RD: Total Disc Replacement: One Clinic's Experience with Almost 1,000 Patients in Eight Years (Key Note Lecture). South Africa Cineplex Congress Meeting. July, 2008; Cape Town, South Africa.
193. Guyer RD: Surgical Options for the Degenerative Cascade. Simposio Internacional de Coluna. July, 2008; Rio de Janeiro, Brazil.
194. Guyer RD: New Surgical Options for Spinal Stenosis. Simposio Internacional de Coluna. July, 2008; Rio de Janeiro, Brazil.
195. Guyer RD: Outcomes of Nearly 1000 Total Disc Replacements with 2-8 Year Follow up (Guest Lecture). Simposio Internacional de Coluna. July, 2008; Rio de Janeiro, Brazil.
196. Guyer RD: Fusion versus Hybrid Total Disc Replacement for Degenerative Disc Disease. Simposio Internacional de Coluna. July, 2008; Rio de Janeiro, Brazil.
197. Guyer RD : Eighteen Years of Total Disc Replacement in TBI. First Capital Summit on Orthopaedics. October, 2008; Beijing, China.

198. Guyer RD: Indications of Semi-rigid Fixation. Brussels International Spine Symposium. November, 2008; Brussels, Belgium.
199. Guyer RD: Overview of Existing Pedicle Based Dynamic Systems. Brussels International Spine Symposium. November, 2008; Brussels, Belgium.
200. Blumenthal SL: Why Preserving Motion? Brussels International Spine Symposium. November, 2008; Brussels, Belgium.
201. Blumenthal SL: Fusion Topping. Brussels International Spine Symposium. November, 2008; Brussels, Belgium.
202. Guyer RD: Considerations in Physician-Owned Companies: Divesting or Disclosure? Emerging Technologies Spine Education Summit. February, 2009; Steamboat Springs, Colorado.
203. Hochschuler SH: Overview and Indications for Facet Replacement Devices. Current Concepts in Spinal Disorders. February, 2009; Las Vegas, Nevada.
204. Guyer RD: Lumbar TDR: Indications - Patient Selection - Contra-Indications. Current Concepts in Spinal Disorders. February, 2009; Las Vegas, Nevada.
205. Guyer RD: Is There A Role for Hybrid Constructs? Current Concepts in Spinal Disorders. February, 2009; Las Vegas, Nevada.
206. Hochschuler SH: Counterpoint – L5-S1 TDR is Better Than Fusion. Current Concepts in Spinal Disorders. February, 2009; Las Vegas, Nevada.
207. Hochschuler SH: Nucleus Repair. Current Concepts in Spinal Disorders. February, 2009; Las Vegas, Nevada.
208. Guyer RD: Surgeon's Perspective on Avoiding TDR Complications? Current Concepts in Spinal Disorders. February, 2009; Las Vegas, Nevada.
209. Guyer RD, Auer B, Zigler JE, Ohnmeiss DD, Blumenthal SL: Relationship between Endplate Morphology and Clinical Outcome of Single-Level Lumbar Disc Arthroplasty. Lumbar Spine Research Society. April, 2009; Chicago, Illinois.
210. Guyer RD, Shellock J, MacLennan B, Hanscom D, Knight RQ, McComb P, Jacobs J, Bradford D: Early Failure of Metal-on-Metal Artificial Discs Due to Metal Hypersensitivity: The Diagnostic and Treatment Approach in 4 Collected Cases. Lumbar Spine Research Society. April, 2009; Chicago, Illinois.
211. Hochschuler SH: Lumbar Provocative Discography. Relevance and Controversy. Preservation of Motion in the Spine. April, 2009; Duck Key, Florida.
212. Hochschuler SH: Interspinous devices. Preservation of Motion in the Spine. April, 2009; Duck Key, Florida.
213. Blumenthal SL: Charite Total Disc Replacement. Preservation of Motion in the Spine. April, 2009; Duck Key, Florida.

214. Zigler JE: How Have the Approved Lumbar Arthroplasty Devices Performed Clinically since FDA Approval? Outcomes and Complications. Controversies in Contemporary Spine Surgery. May, 2009; Washington, D.C.
215. Hochschuler SH: MIS, Innovation, and the Spine Business. International Intradiscal Therapy Society. May, 2009; Scottsdale, Arizona.
216. Blumenthal SL: Why Artificial Disc of the Lumbar Spine Run into a Predicament in Clinical Application. International Symposium on Orthopaedic Translational Research and Technical Advance. May, 2009; Shanghai, China.
217. Hochschuler S: Anulex Anular Repair. Innovative Techniques in Spine Surgery. October, 2009; Scottsdale, Arizona.
218. Hochschuler S: Facet Replacement: Does it Make Sense? Design, Indications, Goals. Innovative Techniques in Spine Surgery. October, 2009; Scottsdale, Arizona.
219. Araghi A: MIS Posterior Decompression. Innovative Techniques in Spine Surgery. October, 2009; Scottsdale, Arizona.
220. Guyer RD: Muscle Sparing Approaches. Brussels International Spine Symposium. November, 2009; Brussels, Belgium.
221. Guyer RD: The Future of Nucleus Replacement. Brussels International Spine Symposium. November, 2009; Brussels, Belgium.
222. Blumenthal SL: Oxioplex. Brussels International Spine Symposium. November, 2009; Brussels, Belgium.
223. Blumenthal SL: Anulex. Brussels International Spine Symposium. November, 2009; Brussels, Belgium.
224. Guyer RD: Arthroplasty: Update and Current Evidence. Evidence and Technology Spine Summit. January, 2010; Steamboat Springs, Colorado.
225. Guyer RD: Evidence for Facet Replacement. Evidence and Technology Spine Summit. January, 2010; Steamboat Springs, Colorado.
226. Guyer RD: Lumbar ADR: Indications – Patient Selections – Contra-Indications. Current Concepts in Spinal Disorders. February, 2010; Las Vegas, Nevada.
227. Guyer RD: Lumbar ADR: Charite. Current Concepts in Spinal Disorders. February, 2010; Las Vegas, Nevada.
228. Guyer RD: Cervical ADR: Kineflex-C. Current Concepts in Spinal Disorders. February, 2010; Las Vegas, Nevada.
229. Hochschuler SH: Interspinous Spacers: Wallis. Current Concepts in Spinal Disorders. February, 2010; Las Vegas, Nevada.
230. Hochschuler SH: Facet Replacement Devices: Overview and Indications for Facet Replacement Devices. Current Concepts in Spinal Disorders. February, 2010; Las Vegas, Nevada.

231. Hochschuler SH: Facet Replacement Devices: Total Facet Arthroplasty System. Current Concepts in Spinal Disorders. February, 2010; Las Vegas, Nevada.
232. Zigler JE: Lumbar ADR: ProDisc. Current Concepts in Spinal Disorders. February, 2010; Las Vegas, Nevada.
233. Shellock J: Re-Operations in a Consecutive Series of 900 Total Disc Replacement Patients. Preservation of Motion in the Spine. April, 2010; Duck Key, Florida.
234. Shellock J: Minimally Invasive Decompression and Fusion for Degenerative Spondylolisthesis. Preservation of Motion in the Spine. April, 2010; Duck Key, Florida.
235. Hochschuler SH: TOPS - Clinical Results. Preservation of Motion of the Spine. April, 2010; Duck Key, Florida.
236. Rashbaum RF: Pain of Spinal Origin: When to Refer a Patient to a Spine Surgeon. TexMed Conference. April, 2010; Fort Worth, Texas.
237. Hochschuler SH: The Role of Biologics in the MIS Treatment of Spinal Conditions. World Congress of Minimally Invasive Spine Surgery and Techniques. May-June, 2010; Las Vegas, Nevada.
238. Araghi A: Early Clinical Experience of the Interbody Implant – Fusion with Confidence – Optimal Markings, Minimum Aperture. World Congress on Minimally Invasive Spine Surgery and Technologies. May-June, 2010; Las Vegas, Nevada.
239. Lieberman IH: MIS Fusion I: Biomechanical and Fatigue Properties of Percutaneous Transpedicular-Transdiscal Fixation Accompanied by Facet Screw Fixation in the Lumbar. World Congress of Minimally Invasive Spine Surgery and Techniques. May-June, 2010; Las Vegas, Nevada.
240. Lieberman IH: MIS Fusion II: Robotic Surgery in MIS Spine. World Congress of Minimally Invasive Spine Surgery and Techniques. May-June, 2010; Las Vegas, Nevada.
241. Lieberman IH: Complications and Avoidance: Complications in MIS Spine Surgery. World Congress of Minimally Invasive Spine Surgery and Techniques. May-June, 2010; Las Vegas, Nevada.
242. Zigler JE: Do We Need New Technologies to Treat Back Pain? Innovative Techniques in Spine Surgery. June, 2010; Los Cabos, Mexico.
243. Hochschuler SH: Spine Surgery: A failure of Messaging? Innovative Techniques in Spine Surgery. June, 2010; Los Cabos, Mexico.
244. Lieberman IH: Interspinous Devices: Does Anyone Still Believe? Innovative Techniques in Spine Surgery. June, 2010; Los Cabos, Mexico.
245. Guyer RD: Innovations in Anular Repair. Innovative Techniques in Spine Surgery. June, 2010; Los Cabos, Mexico.
246. Guyer RD: Lumbar TDR: Adoption challenges. Innovative Techniques in Spine Surgery. June, 2010; Los Cabos, Mexico.

247. Zigler JE: Posterior Motion Preservation. Innovative Techniques in Spine Surgery. June, 2010; Los Cabos, Mexico.
248. Zigler JE: Cervical TDR: ProDisc-C. Innovative Techniques in Spine Surgery. June, 2010; Los Cabos, Mexico.
249. Lieberman IH: Complications and Avoidance with MIS. Innovative Techniques in Spine Surgery. June, 2010; Los Cabos, Mexico.
250. Hochschuler SH: Stand-alone ALIF. Innovative Techniques in Spine Surgery. June, 2010; Los Cabos, Mexico.
251. Araghi A: Initial Clinical Experience with a Sagittally Stable Monoplanar Polyaxial Screw. Innovative Techniques in Spine Surgery. June, 2010; Los Cabos, Mexico.
252. Guyer RD: Current State of Dynamic Stabilization. Simpósio Internacional de Coluna (SINCOL). August, 2010; Rio de Janeiro, Brazil.
253. Guyer RD: MIS Indirect Decompression for Spondylolisthesis. Simpósio Internacional de Coluna (SINCOL). August, 2010; Rio de Janeiro, Brazil.
254. Guyer RD: Is Total Disc Replacement an MIS Alternative to Fusion? Simpósio Internacional de Coluna (SINCOL). August, 2010; Rio de Janeiro, Brazil.
255. Guyer RD: Cervical Total Disc Replacement: TBI Experience. Simpósio Internacional de Coluna (SINCOL). August, 2010; Rio de Janeiro, Brazil.
256. Hochschuler SH: Development of a Spine Center of Excellence. Chinese International Congress of Lumbar Spine Surgery. September, 2010; Changsha City, China.
257. Hochschuler SH: Approaches for the Dynamic Stabilization of the Spine. Chinese International Congress of Lumbar Spine Surgery. September, 2010; Changsha City, China.
258. Blumenthal SL: Interspinous Devices. Instructional Course: State of the Art on the Advances of Research of the Lumbar Spine. October, 2010; Beijing, China.
259. Guyer RD: Anular Repair. Instructional Course: State of the Art on the Advances of Research of the Lumbar Spine. October, 2010; Beijing, China.
260. Blumenthal SL: Ten Years of Lumbar Total Disc Replacement. Instructional Course: State of the Art on the Advances of Research of the Lumbar Spine. October, 2010; Beijing, China.
261. Guyer RD: Difficulty of Adoption of Lumbar TDR in the United States. Instructional Course: State of the Art on the Advances of Research of the Lumbar Spine. October, 2010; Beijing, China.
262. Ohnmeiss DD: Outcome Assessment, Evidence-Based Practice and Biostatistics. AAOS Board Maintenance of Certification Preparation and Review. November, 2010; Boston, Massachusetts.
263. Guyer RD: What is "Dynamic Fusion"? Brussels International Spine Symposium. November, 2010; Brussels, Belgium.

264. Guyer RD, Mayer M: Debate: Is Fusion Still the Gold Standard? Brussels International Spine Symposium. November, 2010; Brussels, Belgium.
265. Guyer RD: What Have We Learned from the Medicare Coverage Advisory Committee Meeting on Spinal Fusion? Brussels International Spine Symposium. November, 2010; Brussels, Belgium.
266. Blumenthal SL: Alternative to Fusion. Brussels International Spine Symposium. November, 2010; Brussels, Belgium.
267. Blumenthal SL: Can Motion Sparing Technology Surpass the Outcomes for Fusion for LBP? Brussels International Spine Symposium. November, 2010; Brussels, Belgium.
268. Hochschuler SH: Healthcare Economics: A Surgeon's Perspective. (Keynote Address). Current Concepts in Spinal Disorders. February, 2011; Las Vegas, Nevada.
269. Lieberman I: Debate: MIS Surgery is a Gimmick: A Look at the Complications. Current Concepts in Spinal Disorders. February, 2011; Las Vegas, Nevada.
270. Lieberman I: Viscoelastic Disc Replacement. Current Concepts in Spinal Disorders. February, 2011; Las Vegas, Nevada.
271. Guyer RD: Lumbar Surgery - Case Presentations. Current Concepts in Spinal Disorders. February, 2011; Las Vegas, Nevada.
272. Guyer RD: Lumbar TDR: Difficulties with Adoption 11 Years Later in the US. Current Concepts in Spinal Disorders. February, 2011; Las Vegas, Nevada.
273. Zigler JE: Single Center Cost Analysis for ADR vs. Fusion in a Matched Patient Set. Current Concepts in Spinal Disorders. February, 2011; Las Vegas, Nevada.
274. Guyer RD: Making the Best of the Worst: Lumbar Surgery Cases. Current Concepts in Spinal Disorders. February, 2011; Las Vegas, Nevada.
275. Hisey MS: Alternatives to Interbody Fusion: Motion Preservation Procedures. Winter Clinics for Cranial and Spinal Surgery. February, 2011; Snowmass, Colorado.
276. Zigler JE, Blumenthal SL, Guyer RD, Hisey MS, Atanasov A, Ohnmeiss DD: A Prospective Randomized Comparison of Cervical Disc Replacement and Anterior Cervical Fusion: Combined Results from Five FDA IDE Trials from a Single Site. AO Spine Global Spine Congress. March, 2011; Barcelona, Spain.
277. Zigler JE, Guyer RD, Blumenthal SL, Ohnmeiss DD: Analysis of Re-operations after Lumbar Total Disc Replacement: Experience in 1,000 Consecutive Cases Beginning with First Case Experience of 11 Surgeons. AO Spine Global Spine Congress. March, 2011; Barcelona, Spain.
278. Guyer RD: Role of Disc Height Restoration with DDD Desiccation. Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.
279. Guyer RD: 5 Year Index Level Motion in LTDR. Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.

280. Guyer RD: Lumbar Disc Disease: Introduction With Case Presentation. Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.
281. Guyer RD: Impact of Pre-Op DEXA Scores in 5 Year Follow Up. Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.
282. Blumenthal SL: Role of Discography. Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.
283. Blumenthal SL. Squishy Disc. Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.
284. Blumenthal SL: Is Surgery for DDD Useful, Efficacious and Cost Effective? Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.
285. Zigler JE: Total Disc Replacement (ProDisc) IDE Results 5 Years. Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.
286. Zigler JE: CTDR with Myelopathy. Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.
287. Zigler JE: Fears and Expectations from year 2000 Now Unfolded in 2010. Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.
288. Hochschuler SH: Revision Spine Surgery. China International Conference on Lumbar Spine Surgery. June, 2011; Tianjin, China.
289. Lieberman IH: When Does Spine Surgery Work? Innovative Techniques in Spine Surgery: "Think Tank 2011." June, 2011; Los Cabos, Mexico.
290. Guyer RD: DDD with Low Back Pain. Surgery is a Valuable Treatment. Innovative Techniques in Spine Surgery: "Think Tank 2011." June, 2011; Los Cabos, Mexico.
291. Hochschuler SH: Spine Surgery: Failed Messaging – Where do we go? Innovative Techniques in Spine Surgery: "Think Tank 2011." June, 2011; Los Cabos, Mexico.
292. Araghi A: MIS Posterior Lumbar Decompression. Innovative Techniques in Spine Surgery: "Think Tank 2011." June, 2011; Los Cabos, Mexico.
293. Lieberman IH: Review of Evidence for MIS? Innovative Techniques in Spine Surgery: "Think Tank 2011." June, 2011; Los Cabos, Mexico.
294. Guyer RD: Lumbar TDR: Is there a future? Innovative Techniques in Spine Surgery: "Think Tank 2011." June, 2011; Los Cabos, Mexico.
295. Zigler JE: Total Motion Segment Preservation. Innovative Techniques in Spine Surgery: "Think Tank 2011." June, 2011; Los Cabos, Mexico.
296. Zigler JE: ProDisc-C. Innovative Techniques in Spine Surgery: "Think Tank 2011." June, 2011; Los Cabos, Mexico.
297. Araghi A: Segmental Lumbar Lordotic Reduction with a Sagittally Stable Screw. Innovative Techniques in Spine Surgery: "Think Tank 2011." June, 2011; Los Cabos, Mexico.

298. Rashbaum RF: Surgical Treatment for Spondylolisthesis. International Spine Intervention Society. August, 2011; Chicago, Illinois.
299. Guyer RD: Lumbar Artificial Disc Surgery for Chronic Low Back Pain: Indications and Techniques. Annual Temple Spine Symposium: Low Back Pain. September, 2011: Philadelphia, Pennsylvania.
300. Guyer RD: Mini Invasive and Indirect Decompression for Spondylolisthesis. Brussels International Spine Symposium. November, 2011; Brussels, Belgium.
301. Blumenthal SL: Mini 360 versus Open 360. Brussels International Spine Symposium. November, 2011; Brussels, Belgium.
302. Guyer RD: Perc Screws and Radiation. To Patient and Surgeon. Brussels International Spine Symposium. November, 2011; Brussels, Belgium.
303. Blumenthal SL: MIS Spinal Stenosis Decompression via Interspinous Devices. Brussels International Spine Symposium. November, 2011; Brussels, Belgium.
304. Guyer RD: What to Expect from a Fellowship. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
305. Duffy M: Adjusting to New Roles and Relationships. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
306. Duffy M: Diagnostic Evaluation: Lumbar. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
307. Duffy M: Indications for Decompression. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
308. Duffy M: Building Your Practice. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
309. Zigler J: Diagnostic Evaluation: Cervical. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
310. Zigler J: Motion Preserving Technologies: Cervical. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
311. Zigler J: Fellowship Interview Strategies. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
312. Block A: Pre-surgical Psychosocial Screening. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
313. Lieberman I: Indications for Lumbar Fusion. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
314. Lieberman I: Avoiding Complications: Where Do Things Go Wrong? Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
315. Lieberman I: Intra-Operative Imaging, Navigation, & Robotics. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.

316. Guyer RD: Advocacy: Getting Involved to Shape Your Own Future. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
317. Guyer RD: Motion Preserving Technologies: Lumbar. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
318. Guyer RD: Radiation Exposure in the OR: Start Early to Protect Yourself. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
319. Ohnmeiss DD: Incorporating Research into Private Practice. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
320. Guyer RD: Incorporating Research into Private Practice. Spine Fellows Course. January, 2012; Vail, Colorado.
321. Guyer RD: Myths of Spine Surgery. Spine Fellows Course. January, 2012; Vail, Colorado.
322. Hochschuler SH: Oxygen Scaffolding and Stem Cells. Current Concepts in Spinal Disorders. February, 2012; Las Vegas, Nevada.
323. Bradley WD: MIS Treatment of Spinal Stenosis. Selby Spine. February, 2012; Park City, Utah.
324. Lieberman IH: Is MIS a Gimmick? Current Concepts in Spinal Disorders. February, 2012; Las Vegas, Nevada.
325. Zigler JE: Five Year Adjacent Level Degenerative Changes Comparing Lumbar Total Disc Replacement to Fusion. Current Concepts in Spinal Disorders. February, 2012; Las Vegas, Nevada.
326. Guyer RD: The Future of Artificial Disc Replacement. Current Concepts in Spinal Disorders. February, 2012; Las Vegas, Nevada.
327. Rashbaum RF: Don't Let Treating Back Pain Be a Pain in the Neck! TexMed Conference. May, 2012; Dallas, Texas
328. Hochschuler SH: Value in Spine: Who is Talking, Who is Listening? "State of Spine Surgery: A Think Tank". June, 2012; Carlsbad, California.
329. Hochschuler SH: New Spinal Technologies: Challenges and Opportunities: Surgeon Perspective. "State of Spine Surgery: A Think Tank". June, 2012; Carlsbad, California.
330. Lieberman IH: Debate: Con: SI Fusion for Back Pain is Effective. "State of Spine Surgery: A Think Tank". June, 2012; Carlsbad, California.
331. Lieberman IH: My Worst Lumbar Complication. "State of Spine Surgery: A Think Tank". June, 2012; Carlsbad, California.
332. Guyer RD: Implementing a Quality Assurance Program for your Practice. "State of Spine Surgery: A Think Tank". June, 2012; Carlsbad, California.
333. Guyer RD: Lumbar TDR: Is There Any Future? "State of Spine Surgery: A Think Tank". June, 2012; Carlsbad, California.

334. Guyer RD: Kineflex|C. "State of Spine Surgery: A Think Tank". June, 2012; Carlsbad, California.
335. Zigler JE: Total Motion Segment Replacement. "State of Spine Surgery: A Think Tank". June, 2012; Carlsbad, California.
336. Zigler JE: Mobi-C. "State of Spine Surgery: A Think Tank". June, 2012; Carlsbad, California.
337. Duffy MF, Ohnmeiss DD, Belanger TA, Guyer RD, Blumenthal SL, Zigler JE: Impact of Cervical Symptoms on Ability to Participate in Recreational Activities. State of Spine Surgery: A Think Tank". June, 2012; Carlsbad, California.
338. Guyer RD: Mini-Invasive 360 and Indirect Decompression for Spondylolisthesis. China International Conference on Lumbar Spine Surgery and International Society for the Study of the Lumbar Spine (Instructional Course). June, 2012; Beijing, China.
339. Guyer RD: Lumbar Total Disc Replacement: Update on Comparative FDA Studies. Total Disc 2012. September, 2012; Zurich, Switzerland.
340. Guyer RD: Lumbar Total Disc Replacement: Problems of Adoption in the USA. Total Disc 2012. September, 2012; Zurich, Switzerland.
341. Guyer RD: Cost of TDR and Fusion. Total Disc 2012. September, 2012; Zurich, Switzerland.
342. Guyer RD: Cervical Total Disc Replacement: Update on Comparative FDA Studies. Total Disc 2012. September, 2012; Zurich, Switzerland.
343. Blumenthal SL: Iatrogenic Stenosis. Brussels International Spine Symposium. November, 2012; Brussels, Belgium.
344. Blumenthal SL: Loss of Fixation. Brussels International Spine Symposium. November, 2012; Brussels, Belgium.
345. Guyer RD: Incorporating Research into Private Practice. Spine Fellows Course. January, 2013; Vail, Colorado.
346. Guyer RD: Myths of Spine Surgery - Doctor-Patient Relationships-Decision Making. Spine Fellows Course. January, 2013; Vail, Colorado.
347. Lieberman IH: MIS Hype or Hope? Symposium on Spinal Disorders. January-February, 2013; Las Vegas, Nevada.
348. Blumenthal SL: What Have We Learned From the Debacle of the Charite Disc? Symposium on Spinal Disorders. January-February, 2013; Las Vegas, Nevada.
349. Lieberman IH: Application of Spinal-Pelvis Radiographic Parameters in Surgical Planning. Symposium on Spinal Disorders. January-February, 2013; Las Vegas, Nevada.
350. Blumenthal SL: My Worst Motion Preservation Complication and What I Learned. Symposium on Spinal Disorders. January-February, 2013; Las Vegas, Nevada.
351. Zigler JE: Cervical Arthroplasty: Present and Future. Symposium on Spinal Disorders. January-February, 2013; Las Vegas, Nevada.

352. Guyer RD: Controversy of Metal on Metal Disc Replacements. Symposium on Spinal Disorders. January-February, 2013; Las Vegas, Nevada.
353. Guyer RD: Future Innovations in Spine: Opportunities and Challenges. Symposium on Spinal Disorders. January-February, 2013; Las Vegas, Nevada.
354. Blumenthal SL: Iatrogenic Stenosis. China International Conference on Lumbar Spine. Xi'an, China; May, 2013.
355. Blumenthal SL: Loss of Fixation. China International Conference on Lumbar Spine. Xi'an, China; May, 2013.
356. Blumenthal SL: Lumbar Total Disc Replacement: Complications and Their Prevention. China International Conference on Lumbar Spine. Xi'an, China; May, 2013.
357. Guyer RD: Stand Alone Anterior Interbody Fusion. China International Conference on Lumbar Spine. Xi'an, China; May, 2013.
358. Guyer RD: Peer Review and Quality Assurance for Spine Surgery. China International Conference on Lumbar Spine. Xi'an, China; May, 2013.
359. Guyer RD: Lumbar Total Disc Replacement Long Term Outcomes. China International Conference on Lumbar Spine. Xi'an, China; May, 2013.
360. Lieberman IH: MIS Treatment of Idiopathic Scoliosis. State of Spine Surgery: "Think Tank." June, 2013; Los Cabos, Mexico.
361. Hochschuler SH: Value in Spine: Who is Talking, Who is Listening? State of Spine Surgery: "Think Tank". June, 2013; Los Cabos, Mexico.
362. Guyer RD: Lumbar TDR: Is It Alive? State of Spine Surgery: "Think Tank." June, 2013; Los Cabos, Mexico.
363. Zigler JE: Discography: Does It Still Have a Role? State of Spine Surgery: "Think Tank." June, 2013; Los Cabos, Mexico.
364. Zigler JE: What's New in Motion Preservation. State of Spine Surgery: "Think Tank." June, 2013; Los Cabos, Mexico.
365. Shellock J, Guyer RD, Shivers J, Ohnmeiss DD, Zigler JE: Implementation and Impact of a Pre-operative Peer Case Review Process in a Spine Practice. State of Spine Surgery: "Think Tank." June, 2013; Los Cabos, Mexico.
366. Guyer RD: How Computers Have Changed the Practice of Medicine Over the Last 20 Years. Brussels International Spine Symposium. November, 2013; Brussels, Belgium.
367. Guyer RD: Newer Techniques of Diagnosis and Surgery Have Led to Better Patient Outcomes Over The Last 20 Years, True or False? Brussels International Spine Symposium. November, 2013; Brussels, Belgium.
368. Blumenthal SL: Cervical HNP-Is Disc Replacement the New Gold Standard? What Does the Evidence Say? Brussels International Spine Symposium. November, 2013; Brussels, Belgium.

369. Blumenthal SL: Are We Better Scientists Today with Current Outcomes Measurements Compared to 20 Years Ago? Brussels International Spine Symposium. November, 2013; Brussels, Belgium.
370. Zigler JE: Lumbar Arthroplasty: Does It Protect the Adjacent Level? Symposium on Current Concepts in Spinal Disorders. January-February, 2014; Las Vegas, Nevada.
371. Guyer RD: Is Lumbar Arthroplasty Dead in the USA or Will There Be a Renaissance? Symposium on Current Concepts in Spinal Disorders. January-February, 2014; Las Vegas, Nevada.
372. Blumenthal SL: Can ADR Surgery Be Supported in Value Based Medicine? Symposium on Current Concepts in Spinal Disorders. January-February, 2014; Las Vegas, Nevada.
373. Blumenthal SL: Cervical Arthroplasty: The New Standard for Cervical HNP. Mazama Spine Summit. February, 2014; Winthrop, Washington.
374. Guyer RD: Strategies Ensuring Uniform Quality of Care among Spine Surgeons without Stifling Creativity. Spine/Ortho Business Summit. February, 2014; Dallas, Texas.
375. Lieberman IH: How to Get Orthopaedists and Neurosurgeons to Work Together. Spine/Ortho Business Summit. February, 2014; Dallas, Texas.
376. Blumenthal SL: Current Innovations in Spine: Successes and Challenges. Spine/Ortho Business Summit. February, 2014; Dallas, Texas.
377. Hochschuler SH: Keynote Address. Spine/Ortho Business Summit. February, 2014; Dallas, Texas.
378. Guyer RD: Percutaneous Screws and Radiation: To Patient and Surgeon. International Society for the Study of the Lumbar Spine Instructional Course. March, 2014; Santiago, Chile.
379. Guyer RD: Motion Preservation Surgery: Is It Worthy? International Society for the Study of the Lumbar Spine Instructional Course. March, 2014; Santiago, Chile.
380. Guyer RD: Is There Still a Place for BMP? International Society for the Study of the Lumbar Spine Instructional Course. March, 2014; Santiago, Chile.
381. Guyer RD: Debate: Fusion for Low Back Pain? (Yes) International Society for the Study of the Lumbar Spine Instructional Course. March, 2014; Santiago, Chile.
382. Hochschuler SH: Hochschuler SH: Keynote Address: State of the Union of Medical Practice. Current Solutions in Spine Surgery. April, 2014; Duck Key, Florida.
383. Zigler JE: Cervical Total Disc Replacement. Current Solutions in Spine Surgery. April, 2014; Duck Key, Florida.
384. Guyer RD: Stand-alone ACDF vs. Plate and Screw Constructs. Current Solutions in Spine Surgery. April, 2014; Duck Key, Florida.
385. Lieberman IH: Mazor Experience. Current Solutions in Spine Surgery. April, 2014; Duck Key, Florida.

386. Blumenthal SL: Complications of Lumbar Total Disc Replacement. Current Solutions in Spine Surgery. April, 2014; Duck Key, Florida.
387. Lieberman IH: Complications of Deformity. Current Solutions in Spine Surgery. April, 2014; Duck Key, Florida.
388. Guyer RD: Lumbar Total Disc Replacement: Alive and Well. Current Solutions in Spine Surgery. April, 2014; Duck Key, Florida.
389. Hochschuler SH: Spine, Orthopedic and Pain Management-Driven ASC Conference + The Business of Spine. June, 2014; Chicago, Illinois.
390. Blumenthal SL: Cervical Disc Replacement: The New Gold Standard in Treating Cervical Disc Herniations? Becker's Spine and Ortho conference. June, 2014; Chicago, Illinois.
391. Guyer RD: Lumbar Total Disc Replacement: Alive and Well. Current Solutions in Spine Surgery. April, 2014; Duck Key, Florida.
392. Zigler JE: Spine Societies. Have They Lost Their Way? *State of Spine Surgery: A Think Tank*. June, 2014; Los Cabos, Mexico.
393. Zigler JE: Cervical TDR is the gold standard for cervical spondylosis. *State of Spine Surgery: A Think Tank*. June, 2014; Los Cabos, Mexico.
394. Guyer RD: The CPT Process. What Data Do We Need for Reimbursement? *State of Spine Surgery: A Think Tank*. June, 2014; Los Cabos, Mexico.
395. Guyer RD: Can New Technologies be Cost Saving? Disc Replacement. *State of Spine Surgery: A Think Tank*. June, 2014; Los Cabos, Mexico.
396. Lieberman IH: Pedicle Screws are the Gold Standard in the Treatment of Spinal Stenosis with Spondylolisthesis. *State of Spine Surgery: A Think Tank*. June, 2014; Los Cabos, Mexico.
397. Lieberman IH: Techniques to Achieve Sagittal Balance in Adult Deformity Surgery. *State of Spine Surgery: A Think Tank*. June, 2014; Los Cabos, Mexico.
398. Hochschuler SH: Contracting with Payers based on Quality and Value. *State of Spine Surgery: A Think Tank*. June, 2014; Los Cabos, Mexico.

Internal and Local Conferences

1. Guyer RD: Orthopedic Injuries to the Extremities. Texas Trial Lawyers Association. March, 1984; Dallas, Texas.
2. Guyer RD: Spinal Disorders - Neck and Back. Orthopedic Surgery Lecture, Introduction to Disease Course, Southwestern Medical School. April, 1984; Dallas, Texas.
3. Guyer RD: Management of Chymopapain Failures. Western Orthopedic Association, September, 1984; Forth Worth, Texas.
4. Guyer RD: Treatment of Low Back Pain. Kaufman County Medical Society. November, 1985; Terrell, Texas.

5. Guyer RD: The Far-Out Syndrome. The John Hopkins University Lectureship. November, 1986.
6. Guyer RD: Extraosseous Spinal Lesions Mimicking HNP. Grand Rounds, University of Texas Health Science Center, Southwestern Medical School. March, 1988; Dallas, Texas.
7. Guyer RD: Symptoms and Pathogenesis of Lumbar Herniated Disc. Automated Percutaneous Discectomy Workshop, Division of Orthopaedic Surgery, University of Texas Southwestern Medical School. November, 1988; Dallas, Texas.
8. Guyer RD: Spinal Surgery. Resident Teaching Conference. April, 1990; Dallas, Texas.
9. Guyer RD: State of the Art Diagnostic Techniques for the Lumbar Spine. American Bar Association - Work Place Remedies II. May, 1990; Dallas, Texas.
10. Guyer RD: Evaluation of Low Back Pain. Texas College of Osteopathic Medicine. May, 1990; Fort Worth, Texas.
11. Guyer RD: Selective Discography, Discography, and Pain Provocation. Arthroscopic Microdiscectomy Course. November, 1990; Philadelphia, Pennsylvania.
12. Guyer RD: Metabolic Bone Disease. University of Texas Southwestern Medical School; Orthopaedic Board Examination Review Course. April, 1991; Dallas, Texas.
13. Ohnmeiss DD: Spinal Cord Stimulation: Evaluation Methods and Initial Results. Spinal Cord Stimulation Workshop. June, 1991; Plano, Texas.
14. Guyer RD: Metabolic Bone Disease. University of Texas Southwestern Medical School; Orthopaedic Board Examination Review Course. June, 1992; Dallas, Texas.
15. Ohnmeiss DD: Results of Spinal Cord Stimulation: One Year Follow-up. Spinal Cord Stimulation Workshop. October, 1992; Plano, Texas.
16. Ohnmeiss DD: Spinal Cord Stimulation: Evaluation Methods and Initial Results. Spinal Cord Stimulation Workshop. January, 1992; Plano, Texas.
17. Ohnmeiss DD: Results of Spinal Cord Stimulation for Intractable Leg Pain. RING-EBI Workers Compensation Specialist meeting. January, 1993; Plano, Texas.
18. Ohnmeiss DD: Pain Drawings. ASG (Austrian-Swiss-German) Traveling Fellows Conference. March, 1994; Plano, Texas.
19. Guyer RD: Metabolic Bone Disease. University of Texas Southwestern Medical School; Orthopaedic Board Examination Review Course. May, 1994; Dallas, Texas.
20. Ohnmeiss DD: Pain Drawings in Back Pain Patients: Collaborative Work with Karolinska Institute. Neuroscience Conference. December, 1994; Plano, Texas.
21. Guyer RD: The Myths of Spine Surgery. Neuroscience. August, 1995; Plano, Texas.
22. Ohnmeiss DD: Relationship of Pain Drawings to Lumbar Disc Pathology. Neuroscience Conference; May 23, 1997; Plano, Texas.
23. Ohnmeiss DD: Report from the International Society for the Study of the Lumbar Spine Meeting. Neuroscience Conference. June 19, 1998; Plano, Texas.

24. Ohnmeiss DD: Pain Drawings and Lumbar Discogenic Pain. Department of Rehabilitation, Karolinska Institute. November, 1998; Stockholm, Sweden.
25. Ohnmeiss DD: Statistics in Medical Literature. Journal Club. January, 1998; Plano, Texas.
26. Guyer RD: Postero-lateral Fusion: Indications & Technique. Complications in Spinal Fusion. March, 1999; Olympic Valley, California.
27. Guyer RD: Minimally Invasive Spine Surgery. American Academy of Orthopaedic Surgeons Practical Anatomy and Surgery Technique Workshop. April, 1999; St. Louis, Missouri.
28. Guyer RD: Degenerative Lumbar Spondylolisthesis. Clinical Lecture. University of Texas Southwestern Medical Center. May, 1999; Dallas, Texas.
29. Guyer RD: Metabolic Bone Disease. University of Texas Southwestern Medical School; Orthopaedic Board Examination Review Course. May, 1999; Dallas, Texas.
30. Guyer RD: Laparoscopic vs. Open Procedures. Minimally Invasive Technologies: Medicine in the 21st Century Symposium. May, 1999; Dallas, Texas.
31. Ohnmeiss DD: Pain Drawings in the Evaluation of Lumbar Disc-related Pain. Neuroscience Conference. June, 2000; Plano, Texas.
32. Ohnmeiss DD: Questionnaires Used in the Evaluation of Low Back Pain Patients. Neuroscience Conference. June, 2001; Plano, Texas.
33. Ohnmeiss DD: Highlights from the International Society for the Study of the Lumbar Spine Annual Conference. Neuroscience Conference. June, 2001; Plano, Texas.
34. Ohnmeiss DD: Frequently Used Questionnaires for Back Pain Patients. Neuroscience Conference. March, 2002; Plano, Texas.
35. Ohnmeiss DD: Research and Emerging Medical Technology. Tarlatan State University – Pre-medical and Pre-veterinary Sciences Club lecture series. April, 2002; Stephenville, Texas.
36. Rashbaum RF: Vertebral Body Stabilization Techniques. Pain Symposium. June, 2002; Lubbock, Texas.
37. Guyer RD: The Multidisciplinary Approach to Work Comp Injuries. Spine Care of the Injured Worker conference. June, 2002; Plano, Texas.
38. Guyer RD: Spine Anatomy and Disc Related Pain. Spine Care of the Injured Worker conference. June, 2002; Plano, Texas.
39. Bradley WD: Diagnostic Evaluation: Imaging, Discography, Injections. Spine Care of the Injured Worker conference. June, 2002; Plano, Texas.

40. Hisey MS: Non-traditional Spine Surgery: Intradiscal Electrothermal Therapy, Minimally Invasive Procedures, Spinal Cord Stimulation, Artificial Discs. Spine Care of the Injured Worker conference. June, 2002; Plano, Texas.
41. Watson P, Blackwood J: Physical Therapy & FCE Interpretation. Spine Care of the Injured Worker conference. June, 2002; Plano, Texas.
42. Triano JJ, Patel NR: Multidisciplinary Treatment of Back Pain: Why Physical Therapy & Chiropractic. Spine Care of the Injured Worker conference. June, 2002; Plano, Texas.
43. Rashbaum RF: Innovations in Spine Surgery. Texas Association of Perianesthesia Nurses (TAPAN). Plano, Texas; June, 2002.
44. Guyer RD: SB Charite III: Cirugia de Reemplazo Por Disco Artificial. Curso Teorico Practico. August, 2002; Santiago, Chile.
45. Ohnmeiss DD: Writing for Scientific Publication. Neuroscience Conference. September, 2002; Plano, Texas.
46. Zigler JE: Spinal Instability Syndrome. Lumbar Disc Replacement with ProDisc. Arthroplasty Techniques and Technology. October, 2002; Dallas, Texas.
47. Guyer RD: Assessing the Damage: Diagnostic Imaging. Managing the Low Back "Train Wreck" Conference. November, 2002; Plano, Texas.
48. Ohnmeiss DD: Failed Back Patients: Who and How. Managing the Low Back "Train Wreck" symposium. November, 2002; Plano, Texas.
49. Hisey MS: Back on Track: Surgery Solutions. Managing the Low Back "Train Wreck" Conference. November, 2002; Plano, Texas.
50. Jasinski G: Tools for Managing "Train Wrecks": Chiropractic. Managing the Low Back "Train Wreck" Conference. November, 2002; Plano, Texas.
51. Keller JM: Tools for Managing "Train Wrecks": Physical Therapy. Managing the Low Back "Train Wreck" Conference. November, 2002; Plano, Texas.
52. Ohnmeiss DD: "Train Wrecks": Who and How. Managing the Low Back "Train Wreck" Conference. November, 2002; Plano, Texas.
53. Rashbaum RF: Long Haul Maintenance: Pharmacology and Spinal Cord Stimulation. Managing the Low Back "Train Wreck" Conference. November, 2002; Plano, Texas.
54. Zigler JE: Diagnostic Injections. Managing the Low Back "Train Wreck" Conference. November, 2002; Plano, Texas.
55. Hochschuler SH: Diagnostic Evaluation: Imaging, Discography, Injections. Spine Care of the Injured Worker conference. November, 2002; Phoenix, Arizona.
56. Hochschuler SH: The Multidisciplinary Approach to Work Comp Injuries. Spine Care of the Injured Worker conference. November, 2002; Phoenix, Arizona.
57. Araghi A: Non-traditional Spine Surgery: Intradiscal Electrothermal Therapy, Minimally Invasive Procedures, Spinal Cord Stimulation, Artificial Discs. Spine Care of the Injured Worker conference. November, 2002; Phoenix, Arizona.

58. Araghi A: Spine Anatomy and Disc Related Pain. Spine Care of the Injured Worker conference. November, 2002; Phoenix, Arizona.
59. Zigler JE: Lumbar Disc Arthroplasty with ProDisc. University of Texas Southwestern Medical Center, Department of Orthopaedics. Visiting Professor Symposium. May, 2003; Dallas, Texas.
60. Araghi A: Analysis of Failed Back Surgery Syndrome. Solutions for Workplace Spine Injuries. September, 2003; Phoenix, Arizona.
61. Araghi A: Spine Anatomy. Solutions for Workplace Spine Injuries. September, 2003; Phoenix, Arizona.
62. Hochschuler SH: Diagnostic Imaging of the Spine. Solutions for Workplace Spine Injuries. September, 2003; Phoenix, Arizona.
63. Hochschuler SH: Arizona Workplace Back Injuries: Who and How. Solutions for Workplace Spine Injuries. September, 2003; Phoenix, Arizona.
64. Hochschuler SH: New Techniques in Spine Surgery. Solutions for Workplace Spine Injuries. September, 2003; Phoenix, Arizona.
65. Blumenthal SL: Lumbar Fusions: Instrumentation and Techniques. Blackstone Workshop at EuroSpine. October, 2003; Prague, Czechoslovakia.
66. Blumenthal SL: Cervical Fusions and Instrumentation: Anterior Cervical Plating and a New Posterior Occipital-Cervical-Thoracic System. Blackstone Workshop at EuroSpine. October, 2003; Prague, Czechoslovakia.
67. Zigler JE: Surgical Treatment of Lumbar Disc Disease. American Airlines. January, 2004; DFW Airport.
68. Guyer RD: Principles of Dynamic Stabilization with Special Reference to the Posterior Column. 4th Dynesys Meeting. May, 2004; Vienna, Austria.
70. Rashbaum RF: Vertebral Body Stabilization Techniques. Pain Symposium. Texas Tech University. June, 2004; Lubbock, Texas.
71. Guyer RD: Lumbar Disc Replacement. Emerging Technologies in Spinal Care - Fifth Annual Herman Lohman Memorial Symposium. November, 2004; Livingston, New Jersey.
72. Blumenthal SL: Results of TDA: The Combined Charite FDA Results. Elevating Best Practice in Spine: New Technology in the Surgical Treatment of Spine Pain. November, 2004; Melbourne, Australia.
73. Blumenthal SL: Indications and Contraindications: The FDA Experience. Elevating Best Practice in Spine: New Technology in the Surgical Treatment of Spine Pain. November, 2004; Melbourne, Australia.
74. Blumenthal SL: Complications in the Charite FDA Experience. Elevating Best Practice in Spine: New Technology in the Surgical Treatment of Spine Pain. November, 2004; Melbourne, Australia.

75. Blumenthal SL: Osteobiologics: A US Perspective. Elevating Best Practice in Spine: New Technology in the Surgical Treatment of Spine Pain. November, 2004; Melbourne, Australia.
76. Ohnmeiss DD: Management of Clinical Trials: Basics & Trends. Neuroscience Lecture Series. March, 2004; Plano, Texas.
77. Ohnmeiss DD: AMA & AdvaMed Guidelines for Gifts to Physicians. Neuroscience Lecture Series. October, 2004; Plano, Texas.
78. Gibbs SJ: Evaluating the Injury. Case Management Society of America Symposium. March, 2004; Dallas, Texas.
79. Jasinski G: Therapeutic Chiropractic Tools. Case Management Society of America Symposium. March, 2004; Dallas, Texas.
80. Bradley WD: Diagnostic Evaluation: Imaging, Discography, & Injections. Case Management Society of America Symposium. March, 2004; Dallas, Texas.
81. Bosita RV Jr: Surgical Solutions. Case Management Society of America Symposium. March, 2004; Dallas, Texas.
82. Guyer RD: Motion Preservation Systems: Tips on Matching the Right Device to the Right Patient. Impliant workshop at the Spinal Arthroplasty Society. Austria May, 2004; Vienna, Austria.
83. Ohnmeiss DD: Clinical Research: Compliance Update. Neuroscience Lecture Series. January, 2005; Plano, Texas.
84. Zigler JE: The Role of Chiropractic in a Spine Center. Presentation to Board of Directors. Florida State University. January, 2005; Tallahassee, Florida.
85. Zigler JE: Minimally Invasive Pedicle Screw Fixation. Spine Conference. January, 2005; Madrid, Spain.
86. Blumenthal SL: The Charite Disc. PHorum conference (Texas Health Resources). February, 2005; Dallas, Texas.
87. Zigler JE: Department of Orthopaedics and Traumatology. Visiting Professor; University of Sao Paulo. March, 2005; Sao Paulo, Brazil.
88. Guyer RD: Total Artificial Disc Prosthesis Lumbar: Live Surgery. Live Instructional Non-Fusion Spine Course. May, 2005; New York, York.
89. Zigler JE: Total Artificial Disc Prosthesis: Live Surgery. Live Instructional Non-Fusion Spine Course. May, 2005; New York, York.
90. Zigler JE: Arthroplasty Adjacent to Fusion. Chicago Trauma Symposium. August, 2005; Chicago, Illinois.
91. Hisey MS: NIH - Ethics Training. Neuroscience lecture series. March, 2005; Plano, Texas.
92. Hochschuler SH, Rogers M: Managing New Technology Adaptation in Your Spine Clinic. Building & Integrating Spine Centers of Excellence. September, 2005; Las Vegas, Nevada.

93. Guyer RD: Lumbar Disc Arthroplasty: Past, Present, and Future. John McCulloch Memorial Denver Spine Institute Winter Conference. February, 2006; Denver, Colorado.
94. Guyer RD: Difficult Decision Making in Total Disc Replacement. John McCulloch Memorial Denver Spine Institute Winter Conference. February, 2006; Denver, Colorado.
95. Hisey MS: NIH - Ethics Training. Neuroscience lecture series. March, 2006; Plano, Texas.
96. Rashbaum RF: How do We Create FBSS? Neuroscience lecture series. March, 2006; Plano, Texas.
97. Rashbaum RF: Complex Regional Pain Syndrome. Texas Orthopaedic Association. May, 2006; Houston, Texas.
98. Hochschuler SH: Interspinous Dynamic Stabilization. Emerging Technologies Meeting. August, 2006; Las Vegas, Nevada.
99. Rashbaum RF: Mobidisc. Asia-Pacific Mobidays, September 2006; Kuala Lumpur, Malaysia.
100. Rashbaum RF: Spinal Cord Stimulation for Treatment of Low Back Pain. November, 2006; South Bend, Indiana.
101. Hisey MS: NIH - Ethics Training. Neuroscience lecture series. March, 2007; Plano, Texas.
102. Hochschuler SH: Tips and Tricks to Anterior Lumbar Surgery: Choosing the Implant, Patient Positioning, and Special Techniques. Desert Spine Conference. June, 2007; Las Vegas, Nevada.
103. Rashbaum RF: ProDisc. Desert Spine Conference. June, 2007; Las Vegas, Nevada.
104. Hochschuler SH: Establishing a Spine Center of Excellence. Michigan Association of Neurological Surgeons. June, 2007; Mackinac Island, Michigan.
105. Zigler JE: Update on Single Level ProDisc vs. 360° Lumbar Fusion. Neuroscience Lecture Series. August, 2007; Plano, Texas.
106. Guyer RD: Myths of Spine Surgery. Neuroscience Lecture Series. August, 2007; Plano, Texas.
107. Ohnmeiss DD: Clinical Research: Data Collection and Application. Neuroscience lecture series. October, 2007; Plano, Texas.
108. Marchetti J: Worker's Compensation Update. Neuroscience Lecture Series. November, 2007; Plano, Texas.
109. Rashbaum RF: Lumbar Spinal Stenosis. Neuroscience Lecture Series. January, 2008; Plano, Texas.
110. Blumenthal SL: Total Disc Arthroplasty Update. Neuroscience Lecture Series. February, 2008; Plano, Texas.
111. Hisey MS: Human Participant Protection for Research - NIH Training. Neuroscience Lecture Series. February, 2008; Plano, Texas.

112. Bradley WD: Minimally Invasive Fusion of L5-S1. Neuroscience Lecture Series. March, 2008; Plano, Texas.
113. Rashbaum RF: Minimally Invasive Spine Surgery. June, 2008; Lubbock, Texas.
114. Guyer RD: Eighteen Years of Total Disc Replacement in TBI. Grand Rounds – Hospital 304 of Peoples' Liberation Army. October, 2008; Beijing, China.
115. Rashbaum RF: Failed Spine Surgery. Neuroscience Lecture Series. March, 2011; Plano, Texas.
116. Guyer RD: Inside an FDA Clinical Trial. Texas Health Center for Diagnostics and Surgery. January, 2012; Plano, Texas.
117. Guyer RD: Inside an FDA Clinical Trial. Texas Health Center for Diagnostics and Surgery. February, 2013; Plano, Texas.
118. Ohnmeiss DD: Compliance in Clinical Research and Physician-Industry Relationships. Neuroscience Lecture Series. March, 2013; Plano, Texas.
119. Ohnmeiss DD: Compliance in FDA Trials: Review of Where Things Go Wrong. Inservice for Clinical Research Coordinators. March, 2013; Plano, Texas.