

**Richard D. Guyer, M.D.**

**CURRICULUM VITAE**

**Office Address:** Texas Back Institute  
6020 West Parker Road  
Suite 200  
Plano, Texas 75093

**EDUCATION**

1964 to 1967 Wissahickon High School, Ambler, Pennsylvania  
1967 to 1971 Ursinus College, Collegeville, Pennsylvania  
1971 to 1975 University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania

**DEGREES**

1971 B.S., Ursinus College, Collegeville, Pennsylvania  
1975 M.D., University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania

**INTERNSHIP**

7/75 to 6/76 Parkland Memorial Hospital, Southwestern School of Medicine, Dallas, Texas

**RESIDENCY**

7/76 to 6/80 Orthopedic Surgery, Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania

**FELLOWSHIPS**

10/81 Spine Fellowship, Case Western Reserve University with Henry Bohlman, M.D., Cleveland, Ohio  
1/82 to 6/82 Spine Fellowship with Leon Wiltse, M.D., Long Beach, California

**FACULTY APPOINTMENTS**

7/76 to 6/80 Assistant Instructor of Orthopedic Surgery, University of Pennsylvania, Philadelphia, Pennsylvania  
7/76 to 6/77 Research Fellow, Department of Orthopedic Surgery of the University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania

- 7/80 to 10/81 Assistant Professor, Division of Orthopedic Surgery, The University of Texas Medical School at Houston, Houston, Texas
- 7/80 to 10/81 Orthopedic Consultant for the "The Gulf State Hemophilia Diagnostic and Treatment Center", The University of Texas Health Science Center, Houston, Texas
- 10/82 to present Associate Clinical Professor, Southwestern Medical School, Dallas, Texas
- 7/1/86-7/1/93 Co-Director of Spine Clinic, Parkland Hospital, Dallas, Texas
- 7/1/86 to present Fellowship Director, Texas Back Institute, Plano, Texas
- 1/06-1/10 President Texas Back Institute, Plano, Texas
- 1/06 to present Chairman, Texas Back Institute Research Foundation

## **BOARD CERTIFICATION**

American Board of Orthopedic Surgery

## **HONORS AND AWARDS**

- |         |  |
|---------|--|
| 1971    | Graduated Cum Laude from Ursinus College       |
| 1996    | Volvo Award for Low Back Pain Research         |
| 2001    | North American Spine Society David Selby Award |
| 2007    | Best Doctors in Dallas                         |
| 2009-14 | Best Doctors in Dallas                         |
| 2010,13 | Best Doctors in the US                         |
| 2012-15 | Bet Doctors in Collin County                   |

## **PROFESSIONAL ORGANIZATIONS AND BOARD MEMBERSHIPS**

- Texas Medical Association
- Harris Medical Society
- Collin County Medical Society
- Texas Orthopedic Association
- Southern Medical Association
- Western Orthopedic Association
- American Academy of Orthopaedic Surgeons
- Cervical Spine Research Society
- International Intradiscal Therapy Society
- North American Spine Society:
- President
  - Treasurer
  - Board of Directors, Education Committee
  - Fellowship Committee

Chairman, Diagnostic and Therapeutics Committee  
Japanese Spine Research Society: Spine Across the Sea: NASS program chairman  
American Back Society  
Texas Spine Society  
International Society for the Study of the Lumbar Spine  
International Society for Minimal Intervention in Spinal Surgery  
International Society for the Advancement of Spine Surgery:  
Program Co-Chair; Program Committee  
Fellowship Committee: Chairman  
Membership Committee  
American Academy of Orthopaedic Surgeons, Committee on HCFA Request for Evaluation of  
Automated Percutaneous Lumbar Discectomy  
AO Spine  
Transplant Services Center Medical Advisory Board, UT Southwestern Medical Center  
American Academy of Orthopaedic Surgeons, Regional Membership Committee  
Lumbar Spine Research Society  
Private Spine Group  
Institute for Spine & Biomedical Research:  
Chairman of the Board of Directors  
Medical Director  
Texas Health Research Institute: Chairman of the Board of Directors  
Texas Back Institute Research Foundation: Chairman of the Board of Directors

#### **EDITORIAL BOARD MEMBERSHIP**

Associate Editorial Board: *The Spine Journal*  
Associate Editorial Board: *Spine*  
Peer Review Board: *The University of Pennsylvania Orthopaedic Journal*  
Editorial Board: *International Journal of Spine Surgery (IJSS; formerly SAS J)*  
Reviewer: *Clinical Orthopaedics and Related Research*  
Editorial Board: *Chinese Journal of Bone and Joint*

#### **COURSE CHAIRMAN**

Co-Chairman, 3<sup>rd</sup> Trans Atlantic Spine Congress; November, 2005; Plano, Texas and Zurich,  
Switzerland  
Co-Chairman, First Annual Spine Arthroplasty Summit; February, 2006; Salt Lake City, Utah

Co-Chairman, Fellows Surgical Technique Course; 2009; Denver, Colorado

Co-Chairman, Total Disc 2012; September, 2012; Zurich, Switzerland

## **PUBLICATIONS**

1. Guyer RD, Booth RE, Rothman RH: Pulmonary Embolism Prophylaxis in Total Hip Patients: A study comparing low dose Coumadin and aspirin. *J Bone Joint Surg* 64A:1040-1044, 1982.
2. Guyer RD: Total Joint Replacement: An Update. *Am Fam Phys* XX:196-201, 1982.
3. Heard CS, Guyer RD, Smith TK: Intramedullary Rodding of the Femur: An Update. *Med J St. Joseph's Hospital* 17(1):29-37, 1982.
4. Wiltse LL, Spencer CW, Guyer RD, Glenn WV, Porter IS: Alar-Transverse Process Impingement of the L5 Spinal Nerve: The Far-Out Syndrome. *Spine* 9:31-41, 1984.
5. Barber FA, Guyer RD, Burton WC: The Heparin-Induced Thrombocytopenia and Thrombosis Syndrome. *J Bone Joint Surg* 69A (6):935-937, 1987.
6. 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* 12:287-294, 1987.
7. 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* 12:295-298, 1987.
8. Vanharanta H, Sachs BL, Spivey MA, Hochschuler SH, Guyer RD, Rashbaum RF, Ohnmeiss DD, Mooney V: A Comparison of CT/Discography, Pain Provocation and Radiographic Disc Height. *Spine* 13:321-324, 1988.
9. Loguidice VA, Guyer RD, Stith WJ, Ohnmeiss DD, Hochschuler SH, Rashbaum RF: Anterior Lumbar Interbody Fusion. *Spine* 13:366-369, 1988.
10. Hochschuler SH, Guyer RD, Stith WJ, Ohnmeiss DD, Rashbaum RF, Johnson, RG: Proplast Reconstruction of Iliac Crest Defects. *Spine* 13:378-379, 1988.
11. Guyer RD, Collier RR, Ohnmeiss DD, Stith WJ, Hochschuler SH, Rashbaum RF, Vanharanta H, Loguidice VA: Extrasosseous Spinal Lesions Mimicking Disc Disease. *Spine* 13:328-331, 1988.
12. Guyer RD, Collier R, Stith WJ, Ohnmeiss DD, Hochschuler SH, Rashbaum RF, Regan JJ: Discitis After Discography. *Spine* 13:1352-1354, 1988.
13. Vanharanta H, Guyer RD, Ohnmeiss DD, Stith WJ, Sachs BL, Aprill 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* 13:1349-1351, 1988.
14. 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* 14:420-423, 1989.

15. Sachs BL, Spivey MA, Vanharanta H, Guyer RD, Rashbaum RF, Hochschuler SH, Smith GV, Scala AD: Techniques for Lumbar Discography and CT/Discography in Clinical Practice. *J Applied Radiology* Nov, 1989.
16. 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.
17. Stith WJ, Judy MM, Hochschuler SH, Guyer RD: Choice of Lasers for Minimally Invasive Spinal Surgery. *Orthop Rev* 22(2):137-142, 1991.
18. Sasso RC, Cotler HB, Guyer RD: Diagnostic Imaging Studies for Low Back Pain. *J Musculoskeletal Medicine* 8(5):21-37, 1991.
19. Guyer RD, Ohnmeiss DD: Lumbar Discography and CT/Discography. *The University of Pennsylvania Orthopaedic J* 7:61-63, 1991.
20. Shea DD, Ohnmeiss DD, Stith WJ, Guyer RD, Hochschuler SH, Rashbaum RF: The Effect of Sensory Deprivation on the Reduction of Pain in Chronic Low Back Patients. *Spine* 16(5):560-561, 1991.
21. Guyer RD: Selective Discography, CT/Discography, and Pain Provocation Testing. *Seminars in Orthopaedics* 6(2):90-91, 1991.
22. 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.
23. 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.
24. Guyer RD, Ohnmeiss DD: The Role of Discography and Interdiscal Therapy. *Current Opinion in Orthopaedics*. 5(II):49-53, 1994.
25. Guyer RD, Hochschuler SH: Minimally Invasive Surgical Techniques for the Treatment of the Herniated Lumbar Disc. *Seminars Spine Surg* 6(4):256-261, 1994.
26. Ohnmeiss DD, Guyer RD, Hochschuler SH: Laser Disc Decompression: The Importance of Proper Patient Selection. *Spine* 19(18):2054-2059, 1994.
27. 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.
28. Weinhoffer SL, Guyer RD, Herbert M, Griffith SL: In-Vitro Intradiscal Pressure Measurements Above a Simulated Instrumented Fusion. *Spine* 20(5):526-531, 1995.
29. Ohnmeiss DD, Vanharanta H, Guyer RD: The Association Between Pain Drawings and CT/Discographic Pain Responses. *Spine* 20(6):729-733, 1995.
30. 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.

31. 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.
32. 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.
33. Griffith SL, Weinhover 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.
34. 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.
35. Block AR, Vanharanta H, Ohnmeiss DD, Guyer RD: Discographic Pain Reports: Influence of Psychological Factors. *Spine* 21(3):334-338, 1996.
36. 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.
37. 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):459-68, 1996.
38. Guyer RD, Ohnmeiss DD: [letter] Response to Fraser's comments on Lumbar Discography Position Statement. *Spine* 21(10):1275-1276, 1996.
39. 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.
40. Jarolem K, Tucker WA, Fulp T, Guyer RD: Rigid Intra-segmental 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.
41. Regan JJ, Guyer RD: Endoscopic Techniques in Spinal Surgery. *Clin Orthop* (335):122-39, 1997.
42. 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.
43. Ohnmeiss DD, Guyer RD, Mason SL: Relationship of Cervical Discographic Pain Responses to Radiographic Images. *Clin J Pain* 16(1):1-5, 2000.
44. 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.

45. 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.
46. 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.
47. 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.
48. 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.
49. 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.
50. Guyer RD, Ohnmeiss DD: Intervertebral Disc Prostheses. *Spine* 28(15S):S15-S23, 2003.
51. 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.
52. Guyer RD, Ohnmeiss DD: Contemporary Concepts Reviews: Lumbar Discography. *Spine J* 3(3S):11S-17S, 2003.
53. Herzog RJ, Ghanayem AJ, Guyer RD, Graham-Smith A, Simmons ED: Contemporary Concepts Reviews: Radiographic Assessment for Patients with Low Back Pain. *Spine J* 3(3S):6S-10S, 2003.
54. Simmons ED, Guyer RD, Graham-Smith A, Herzog R: Contemporary Concepts Reviews: Magnetic Resonance Imaging: Use in Patients with Low Back Pain or Radicular Pain. *Spine J* 3(3S):3S-5S, 2003.
55. 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.
56. 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 Charité Intervertebral Disc. *J Neurosurg Spine* 1(2):143-154, 2004.
57. 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.
58. 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.

59. McAfee PC, Cunningham B, Holtsapple G, Bussard-Adams K, Blumenthal S, Guyer RD, Dmietriev A, Maxwell J, Regan J, 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.
60. McAfee PC, Guyer RD: History and Design Rationale for the CHARITÉ Artificial Disc. *Lumbar Spine Arthroplasty: Volume I*. Quality Medical Publishing. St. Louis, MO, 2005; pp. 13-28.
61. Blumenthal SL, Guyer RD: Indications, Contraindications, and Radiographic Evaluation. *Lumbar Spine Arthroplasty: Volume II*. Quality Medical Publishing. St. Louis, MO, 2005; pp. 3-16.
62. 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.
63. Blumenthal SL, Guyer RD, Cappuccino A: Discectomy. *Lumbar Spine Arthroplasty: Volume III*. Quality Medical Publishing. St. Louis, MO, 2005; pp. 17-39.
64. 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.
65. 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.
66. Guyer RD, Elders G: Disc Prosthesis for Lumbar Degenerative Disease and Axial Instability –CHARITÉ Artificial Disc. *Seminars in Spine Surgery* 17(4):297-309, 2005.
67. Dickerman RD, Guyer RD: [Letter to the Editor] Intraoperative Electromyography for Lateral Mass and Pedicle Screws: Technique is the Key! *J Spinal Disord Tech* 19(6):463, 2006.
68. 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.
69. Dickerman RD, Guyer RD, Hisey MS: [Letter to the Editor commenting on article: Automated Intraoperative EMG Testing during Percutaneous Pedicle Screw Placement.] *Spine J* 6(4):473, 2006.
70. 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.
71. Guyer RD, Patterson M, Ohnmeiss DD: Failed Back Surgery Syndrome: Diagnostic Evaluation. *J Am Acad Orthop Surg* 14(9):534-43, 2006.



72. 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.
73. Guyer RD, Tromanhauser SG, Regan JJ: An Economic Model of One-Level Lumbar Arthroplasty vs. Fusion. *Spine J* 7(5):558-562, 2007.
74. 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.
75. 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.
76. 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.
77. 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(1):13-16, 2008.
78. 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 CHARITÉ artificial disc compared with fusion. *J Neurosurg Spine* 8(1):7-12, 2008.
79. 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.
80. 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.
81. 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.
82. 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.
83. 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.
84. 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.
85. 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 CHARITÉ Artificial Disc Versus Lumbar Fusion: Five-Year Follow-up. *Spine J* 9(5):374-386, 2009.
  86. 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.
  87. Dickerman RD, Reynolds A, Zigler J, Guyer R: [Letter] Adjacent Segment Degeneration. *J Neurosurg Spine* 10(2):177, 2009.
  88. Guyer RD, Ohnmeiss DD: Advancements in Spinal Surgery. *US Musculoskeletal Review* 4:47-50, 2009.
  89. 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.
  90. 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. *Amer J Med Quality* 24:(6 Suppl): 25S-31S, 2009.
  91. Guyer RD: Re: "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* 10(4):360, 2010.
  92. 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-E497. 2011.
  93. 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.
  94. 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.
  95. 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.
  96. 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.

97. McGrory J, Guyer RD: Can Fusion for Back Pain Alone Be Defended? *Seminars Spine Surg* 23:227-234, 2011.
98. Tepper G, Ohnmeiss DD, Guyer RD: Retrograde Ejaculation—Make It Count. *SpineLine* XII(6):37-38, 2011.
99. Guyer RD, Thongtrangan I, Ohnmeiss DD: Anterior Lumbar Arthroplasty. *Seminars Spine Surg* 24:32-36, 2012.
100. 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.
101. Rainey S, Blumenthal SL, Zigler JE, Guyer RD, Ohnmeiss DD: Analysis of Adjacent Segment Re-Operation Following Lumbar Total Disc Replacement. *Int J Spine Surg* 6:140-144, 2012.
102. 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.
103. 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. *Spine* 39(12):925-931, 2014.
104. Büttner-Janzen K, Guyer RD, Ohnmeiss DD: Indications for Lumbar Total Disc Replacement: Selecting the Right Patient with the Right Indication for the Right Total Disc. *Int J Spine Surg* 8:doi: 10.14444/1012, 2014.
105. Hipp J, Guyer RD, Zigler JE, Ohnmeiss DD, Wharton ND: Development of a Novel Radiographic Measure of Lumbar Instability and Validation Using the Facet Fluid Sign. *Int J Spine Surg* 9:37; doi: 10.14444/2037, 2015.
106. Lieberman IH, Hu X, Ohnmeiss DD, Guyer RD, Zigler JE: Restoration of Cervical Alignment Is Associated with Improved Clinical Outcome after One and Two Level Anterior Cervical Discectomy and Fusion. *Int J Spine Surg* 9:61, 2015.
107. Guyer RD, Pettine K, Roh JS, Dimmig TA, Coric D, McAfee, PC, Ohnmeiss DD: Five-year Follow-up of a Prospective, Randomized Trial Comparing Two Lumbar Total Disc Replacements. *Spine* 41(1):3-8, 2016.
108. Musacchio MJ, Lauryssen C, Davis RJ, Bae HW, Pelozo JH, Guyer RD, Zigler JE, Ohnmeiss DD, Leary S: Evaluation of Decompression and Interlaminar Stabilization Compared with Decompression and Fusion for the Treatment of Lumbar Spinal Stenosis: 5-year Follow-up of a Prospective, Randomized, Controlled Trial. *Int J Spine Surg* 10:6 doi: 10.14444/3006, 2016.
109. Guyer RD: Cervical Coronal Alignment Matters. *Spine J* 16(4):480-481, 2016.
110. Guyer RD, Abitbol JJ, Ohnmeiss DD, Yao C: Evaluating Osseointegration into a Deeply Porous Titanium Scaffold: A Biomechanical Comparison with PEEK and Allograft. *Spine* 41(19):E1146-E1150, 2016.

111. Nunley PD, Shamie N, Blumenthal SL, Orndorff D, Block JE, Geisler FH: Interspinous Process Decompression: Expanding Treatment Options for Lumbar Spinal Stenosis. *BioMed Research Internat* 2016:3267307, 2016.
112. Guyer R, Musacchio M, Cammisa Jr, FP, Lorio ML: ISASS Recommendations/Coverage Criteria for Decompression with Interlaminar Stabilization – Coverage Indications, Limitations, and/or Medical Necessity. *Int J Spine Surg* 10:doi:10.14444/3041, 2016.

#### **CURRENTLY SUBMITTED FOR PUBLICATION**

1. Coric D, Guyer RD, Numley PD, Musante D, Carmody C, Gordon C, Laurysen C, Boltes MO, Ohnmeiss DD: Prospective, Randomized, Multicenter Study of Cervical Arthroplasty versus Anterior Cervical Discectomy and Fusion: 5-year Results with a Metal-on-Metal Artificial Disc. Submitted to *J Neurosurg Spine*.

#### **BOOKS AND BOOK CHAPTERS**

1. Guyer RD (Editor): SPINE - State of the Art Review: Lumbar Disc Disease. Hanley & Belfus; Philadelphia, January, 1989.
2. Flemming J, Guyer RD: *Diagnostic Dilemmas*. In: Guyer RD (ed) SPINE - State of the Art Review: Lumbar Disc Disease. Hanley & Belfus; Philadelphia, January 1989; pp 153-172.
3. 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, January 1989; pp 91-102.
4. Guyer RD: *Lumbar CT/Discography*. In: P Kambin (ed) Percutaneous Approach to the Lumbar Spine. Urban & Schwarzenberg Medical Publishers, Inc. 1990.
5. Guyer RD: *Lumbar CT/discography*. In: P Kambin (ed) Arthroscopic Microdiscectomy: Minimal Intervention in Spine Surgery. Baltimore; Urban & Schwarzenberg; 1991, pp 49-56.
6. 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, 1991; pp 259-271.
7. Hochschuler SH, Guyer RD, Cotler HB (Editors): Rehabilitation of the Spine: Science and Practice. Mosby Year Book, Chicago, 1993.
8. Guyer RD: *Laboratory Testing*. In: Hochschuler SH, Guyer RD, Cotler HB (eds) Rehabilitation of the Spine: Science and Practice. Mosby Year Book, Chicago, 1993. pp 113-118.
9. 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.

10. 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, MO. 1995. pp 257-274.
11. 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; 1997; pp 59-67.
12. 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.
13. 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.
14. 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.
15. Guyer RD, Blumenthal SL: *Preliminary United States Experience with the SB Charité III Artificial Discs*. In: Büttner-Janzen K, Hochschuler SH, McAfee PC (eds): The Artificial Disc. Springer-Verlag, Berlin, Germany, 2003, pp. 139-145.
16. Block AR, Gatchel RJ, Deardorff WW, Guyer RD (Authors): The Psychology of Spine Surgery. Block AR (ed) American Psychological Association, Washington, D.C., 2003.
17. Guyer RD, Ohnmeiss DD: *Degenerative Disc Disease: Fusion Cages and Dowels*. In: Herkowitz H, Dvorak J, Bell G, et al (eds): The Lumbar Spine, 3<sup>rd</sup> Edition. Lippincott Williams & Wilkins, Philadelphia, PA, 2004, pp 342-351.
18. Henry S, Guyer RD: *Revision Decompressive / Disc Surgery*. In: Frymoyer J et al (ed): The Adult and Pediatric Spine. Lippincott Williams & Wilkins, Philadelphia, PA. 2004; pp 1153-1163.
19. Guyer RD, Corbin TP: *Minimally Invasive Posterior Fusion And Internal Fixation With ATAVI System*. In: Kambin P (eds): Arthroscopic and Endoscopic Spinal Surgery; Text & Atlas. Humana Press, Totowa, NJ, 2005; pp 227-238.
20. Guyer RD, Zigler JE (Editors): Spinal Arthroplasty: A New Era in Spine Care. Quality Medical Publishing. St. Louis, MO; 2005.
21. 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, MO, 2005; pp 181-224.
22. 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, MO, 2005; pp 133-147.
23. McAfee PC, Guyer RD: *CHARITÉ 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, MO, 2005; pp 527-562.
24. Johnson MC, Guyer RD: *Revision Strategies: Failed Instrumentation*. In Herkowitz H, Garfin S, Eismont FJ, Bell GR, Balderston RA (eds) The Spine 5<sup>th</sup> Edition, Elsevier, London; 2007.
  25. 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.
  26. Dickerman RD, Guyer RD: *Intraoperative EMG Monitoring*. In Levine A, Eismont F, Garfin S, Zigler J (Eds): Spine Trauma. Elsevier; London; in press.
  27. 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.
  28. Guyer RD: *Impliant TOPS: Total Posterior Element Replacement*. In Szpalski M, Gunzburg R, Le Huec J-C, Brayda-Bruno M (ed): Nonfusion Technologies in Spine Surgery; Lippincott Williams and Wilkins, Philadelphia, 2007, pp. 221-224.
  29. 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 (ed): Nonfusion Technologies in Spine Surgery; Lippincott Williams and Wilkins, Philadelphia, 2007, pp. 151-157.
  30. Guyer RD, Roybal R: *Disc Arthroplasty: The Charité' Study-What Does It Really Mean?* In Resnick DK, Wang J, Haid RW (eds): Surgical Management of Low Back Pain, 2<sup>nd</sup> Edition Thieme, New York, New York; 2009, pp. 194-200.
  31. Guyer RD, Block AR: *Multidisciplinary Chronic Pain Management as an Alternative to Surgery*. In: Schatman M (Ed): Multidisciplinary Chronic Pain Management: A Guidebook for Program Development and Excellence of Treatment. Informa Healthcare, New York, in press.
  32. Guyer RD, Ohnmeiss DD: *Socioeconomic Impact of Motion Preservation Technology*. In Yue, Bertagnoli R, McAfee PC, An H (eds): Motion Preservation Surgery of the Spine: Advanced Techniques and Controversies. Elsevier, Philadelphia, PA; in press.
  33. 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.
  34. 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 Low Back Pain. Springer, Heidelberg, Germany; 2010; pp 177-182.
  35. 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.

36. 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.
37. 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.
38. 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.
39. 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.
40. 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 6<sup>th</sup> edition. Elsevier; Philadelphia, Pennsylvania; 2011; pp. 919-929.
41. 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.
42. 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.
43. 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.
44. Morrison T, Guyer RD, Ohnmeiss DD: *Complications of Cervical Disc Replacement*. In: Kim D, Sengupta DK, Cammisa FP, Yoon KJ, Fessler RG (eds): Dynamic Reconstruction of the Spine 2<sup>nd</sup> Edition. Thieme Medical Publishers, New York, New York, 2015; pp. 175-161.
45. Guyer RD, Otero-Lopez E: *Lumbar Total Disc Arthroplasty*. In: Kuntz C, Steinmetz M (eds): Benzel's Spine Surgery, 4<sup>th</sup> Edition. Elsevier Clinical Solutions, Philadelphia, Pennsylvania, in press.
46. Ilalov K, Guyer RD, Zigler JE, Ohnmeiss DD: *Clinical Results of Total Lumbar Disc Replacement, Including Update of IDE Trials*. In: Kim D, Sengupta DK, Cammisa FP, Yoon KJ, Fessler RG (eds): Dynamic Reconstruction of the Spine 2<sup>nd</sup> Edition. Thieme Medical Publishers, New York, New York, 2015; pp. 367-373.
47. Johnson R, Guyer RD: *Anterior Lumbar and Spine Surgical Approaches*. In: Garfin SR, Bell G, Eismont F, Bono C, Fischgrund J (eds): Rothman-Simeone: The Spine 7<sup>th</sup> Edition. Elsevier, in press.

48. Guyer RD, Thongtrangan I: *Lumbar Artificial Disc*. In: Vaccaro AR, Eck JC (eds): Surgical Atlas of Spinal Operations, 2<sup>nd</sup> Edition. Jaypee Brothers Medical Publishers, New Delhi, India; in press.

## PRESENTATIONS

1. Guyer RD: Pulmonary Embolism Prophylaxis in Total Hip Patients. Alumni Day, University of Pennsylvania, Department of Orthopedic Surgery. May, 1979; Philadelphia, Pennsylvania.
2. Guyer RD: Orthopedic Conferences at the University of Pennsylvania: Philadelphia, Pennsylvania.
  - Metabolic Bone Disease, November, 1978
  - Brachial Plexus Injuries, January, 1978
  - Biomechanics of the Hip, September, 1978
  - Review of Metabolic Bone Disease, November, 1978
  - Acute Arthritis of the Knee, January, 1979
  - Fractures of the Thoracolumbar Spine, March, 1979
3. Guyer RD: Biophysical Augmentation of Fracture Healing with Electricity. Grand Rounds, The University of Texas Medical School at Houston. December, 1979; Houston, Texas.
4. Guyer RD: Simplified Radiographic Examination for Dislocated Shoulders. Alumni Day, University of Pennsylvania. May, 1980; Philadelphia, Pennsylvania.
5. Guyer RD: Orthopedic Management of Hemophilia. Perspectives in Management of Hemophilia. October, 1980.
6. Guyer RD: Electrical Stimulation of the Bone for the Treatment of Nonunion. Edward T. Smith Lectureship. November, 1980.
7. Guyer RD: Complication of Closed Intramedullary Rodding of Proximal Femoral Shaft. Western Orthopedic Association. October, 1981.
8. Wiltse LL, Glenn W, Spencer CW, Porter IS, Guyer RD: Alar Transverse Process Impingement of L5 Nerve Root or the Far-Out Syndrome. International Lumbar Spine Society Meeting. June, 1982; Toronto, Canada.
9. Guyer RD: Nerve Impingement Syndromes of the Lumbar Spine. Orthopedic Grand Rounds Southwestern School of Medicine, Division of Orthopedic Surgery. September, 1982; Dallas, Texas.
10. Guyer RD: Orthopedic Injuries to the Extremities. Texas Trial Lawyers Association. March, 1984; Dallas, Texas.
11. Guyer RD: Spinal Disorders - Neck and Back. Orthopedic Surgery Lecture, Introduction to Disease Course, Southwestern Medical School. April, 1984; Dallas, Texas.
12. Guyer RD: Management of Chymopapain Failures. Western Orthopedic Association, September, 1984; Forth Worth, Texas.



13. Guyer RD: Treatment of Low Back Pain. Kaufman County Medical Society. November, 1985; Terrell, Texas.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. Guyer RD: Discography and CT/Discography. Clinical Orthopedic Society. October, 1986; Forth Worth, Texas.
20. Guyer RD: The Far-Out Syndrome. The John Hopkins University Lectureship. November, 1986.
21. 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.
22. Loguidice VA, Guyer RD, Johnson RG, Rashbaum RF, Hochschuler SH: Anterior Lumbar Interbody Fusions. Texas Medical Association. May, 1987; Houston, Texas.
23. 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.
24. 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.

25. 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.
26. 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.
27. Hochschuler SH, Rashbaum RF, Guyer RD, Stith WJ, Ohnmeiss DD: Proplast Reconstruction of Iliac Crest Defects. North American Spine Society. June, 1987; Banff, Canada.
28. Guyer RD: Intra-Spinal Tumors Mimicking Herniated Disc Disease. Western Orthopaedic Association Meeting. September, 1987; Dallas, Texas.
29. Guyer RD: Extraosseous Spinal Lesions Mimicking HNP. Grand Rounds, University of Texas Health Science Center, Southwestern Medical School. March, 1988; Dallas, Texas.
30. 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.
31. 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.
32. Lonstein MA, Johnson R, Guyer RD: Posterior Lumbar Fusion and Instrumentation. Texas Medical Association. May, 1988; San Antonio, Texas.
33. Hopp S, Johnson R, Guyer RD: Microscopic Discectomy and Fusion for Cervical Syndrome. Texas Medical Association. May, 1988; San Antonio, Texas.
34. 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.
35. 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.
36. 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.
37. 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.

38. 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.
39. 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.
40. 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.
41. Guyer RD: Evaluation and Management of Lumbar Disc Disease. American Academy of Pain Medicine. November, 1989; Dallas, Texas.
42. Guyer RD: Injection Techniques. Keystone Spine Meeting. March, 1990; Keystone, Colorado.
43. Guyer RD: Post-op Care. Keystone Spine Meeting. March, 1990; Keystone, Colorado.
44. Guyer RD: Spinal Surgery. Resident Teaching Conference. April, 1990; Dallas, Texas.
45. Guyer RD: State of the Art Diagnostic Techniques for the Lumbar Spine. American Bar Association - Work Place Remedies II. May, 1990; Dallas, Texas.
46. Guyer RD: Evaluation of Low Back Pain. Texas College of Osteopathic Medicine. May, 1990; Fort Worth, Texas.
47. 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.
48. Guyer RD: Arthroscopic Microdiscectomy. North American Spine Society Instructional Course. August, 1990; Monterey, California.
49. Guyer RD: Selective Discography, Discography, and Pain Provocation. Arthroscopic Microdiscectomy Course. November, 1990; Philadelphia, Pennsylvania.
50. 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.
51. 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.
52. 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.
53. 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.

54. Guyer RD: Metabolic Bone Disease. University of Texas Southwestern Medical School; Orthopaedic Board Examination Review Course. April, 1991; Dallas, Texas.
55. 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.
56. 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.
57. 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.
58. Guyer RD: Comparison of Costs and Effectiveness of Arthroscopic Microdiscectomy to Laminectomy with Discectomy. North American Spine Society. August, 1991; Keystone, Colorado.
59. 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.
60. 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.
61. Hochschuler SH, Guyer RD, Ohnmeiss DD, Rashbaum RF, Regan JJ: Single-level Stabilization with Femur Grafts. North American Spine Society. August, 1991; Keystone, Colorado.
62. 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.
63. 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.
64. Guyer RD: Mechanisms of Pain Relief with Arthroscopic Microdiscectomy. International Society for Minimally Invasive Spine Surgery. November, 1991; Philadelphia, Pennsylvania.
65. 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.
66. 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.

67. 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.
68. Guyer RD: Metabolic Bone Disease. University of Texas Southwestern Medical School; Orthopaedic Board Examination Review Course. June, 1992; Dallas, Texas.
69. 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.
70. 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.
71. 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.
72. 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.
73. Guyer RD: Discordant CT/Discography Results: Psychological Factors Play a Role. International Society for the Study of the Lumbar Spine. June, 1993; Marseilles, France.
74. 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.
75. 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.
76. 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.
77. 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.
78. Ohnmeiss DD, Hochschuler SH, Guyer RD, Weinoffer SL: Laser Disc Decompression: The Importance of Proper Patient Selection. North American Spine Society. October, 1993; San Diego, California.
79. Weinoffer 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.

80. 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.
81. 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.
82. Ohnmeiss DD, Hochschuler SH, Guyer RD, Weinoffer SL: Laser Disc Decompression: The Importance of Proper Patient Selection. Federation of Spine Associations. February, 1994; New Orleans, Louisiana.
83. Guyer RD: Metabolic Bone Disease. University of Texas Southwestern Medical School; Orthopaedic Board Examination Review Course. May, 1994; Dallas, Texas.
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. Guyer RD, Ruoff M, Ohnmeiss DD: Combined Anterior-posterior Lumbar Spinal Fusion: Is it Safe? North American Spine Society; October, 1994; Minneapolis, Minnesota.
86. Vanharanta H, Ohnmeiss DD, Guyer RD: Are Lumbar Flexion-Extension Films Useful in Identifying Discogenic Pain? North American Spine Society; October, 1994; Minneapolis, Minnesota.
87. Novotny SR, Guyer RD, Regan JJ, Ohnmeiss DD: Laparoscopic Assisted Anterior Lumbar Interbody Fusion. North American Spine Society; October, 1994; Minneapolis, Minnesota.
88. Novonty SR, Guyer RD, Regan JJ: Laparoscopic Assisted Anterior Lumbar Interbody Fusion. American Academy of Orthopaedic Surgeons. February, 1995; Orlando, Florida.
89. 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.
90. Guyer RD: The Myths of Spine Surgery. Neuroscience. August, 1995; Plano, Texas.
91. 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.
92. 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.
93. 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.
94. 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.

95. Guyer RD: Mini Open Spinal Fusion. *New Frontiers in Spine Surgery*. April, 1996; Strasbourg, France.
96. 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.
97. 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.
98. Guyer RD, Ohnmeiss DD, Vanharanta H, Mason SL: Are Results of Lumbar and Cervical Discography Similar? *Spine Across the Sea (NASS/JSRS)*. March, 1997; Hawaii.
99. Guyer RD: Reimbursement: Marketing vs. Survival. *American Pain Society/North American Spine Society*. April, 1998; Charleston, South Carolina.
100. 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.
101. Guyer RD: Postero-Lateral Fusion: Indications & Technique. *Complications in Spinal Fusion*. March, 1999; Olympic Valley, California.
102. 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.
103. Guyer RD: Minimally Invasive Spine Surgery. *American Academy of Orthopaedic Surgeons Practical Anatomy and Surgery Technique Workshop*. April, 1999; St. Louis, Missouri.
104. Guyer RD: Degenerative Lumbar Spondylolisthesis. *Clinical Lecture*. University of Texas Southwestern Medical Center. May, 1999; Dallas, Texas.
105. Guyer RD: Metabolic Bone Disease. *University of Texas Southwestern Medical School; Orthopaedic Board Examination Review Course*. May, 1999; Dallas, Texas.
106. Guyer RD: Laparoscopic vs. Open Procedures. *Minimally Invasive Technologies: Medicine in the 21<sup>st</sup> Century Symposium*. May, 1999; Dallas, Texas.
107. 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.
108. 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.

109. 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.
110. Guyer RD: Lumbar Discography: Indications and Efficacy. Symposium on Lumbar Discogenic Disease - American Academy of Orthopaedic Surgeons. March, 2000; Orlando, Florida.
111. Guyer RD: Lumbar Interbody Fusion Cages in the Management of Chronic Low Back Pain. JPSSSTS Conference. September, 2000; Tokyo, Japan.
112. 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.
113. 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.
114. 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.
115. 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.
116. 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.
117. Guyer RD: General Indications and Contraindications for Disc Replacement (Symposium: Artificial Intervertebral Discs and Beyond). North American Spine Society. November, 2001; Seattle, Washington.
118. Guyer RD: Early US Experience with the Charité Artificial Disc. (Symposium) American Academy of Orthopaedic Surgeons. February, 2002; Dallas, Texas.
119. 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.
120. 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.
121. 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.
122. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: US Experience with the SB Charité Artificial Disc. Spinal Arthroplasty Society. May, 2002; Montpellier, France.



123. Guyer RD: The Multidisciplinary Approach to Work Comp Injuries. Spine Care of the Injured Worker conference. June, 2002; Plano, Texas.
124. Guyer RD: Spine Anatomy and Disc Related Pain. Spine Care of the Injured Worker conference. June, 2002; Plano, Texas.
125. Guyer RD: SB Charité III: Cirugia de Reemplazo Por Disco Artificial. Curso Teorico Practico. August, 2002; Santiago, Chile.
126. Guyer RD: Diagnostic Work-up of Spinal Instability. Dynamic Spine Stabilization. October, 2002; Plano, Texas.
127. Guyer RD: Assessing the Damage: Diagnostic Imaging. Managing the Low Back “Train Wreck” Conference. November, 2002; Plano, Texas.
128. Guyer RD: Experience with Allografts in Spine Surgery. What’s New in Orthopaedic Grafting Techniques and Tissue Banking. November, 2002; Dallas, Texas.
129. Guyer RD: Assessing Axial Low Back Pain, Where Are We? (Symposium: Stabilizing Low Back Pain). North American Spine Society; November, 2002; Montreal, Canada.
130. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: Prospective outcome evaluation of a Total Disc Replacement. Spine Society of Australia. April, 2003; Canberra, Australia.
131. Guyer RD: The Role of ALIF. Spinal Arthroplasty Society, May, 2003; Phoenix, Arizona.
132. Guyer RD: Results of SB Charité: Historical. Spinal Arthroplasty Society, May, 2003; Phoenix, Arizona.
133. Guyer RD: Clinical and Radiologic Diagnostics for Spinal Motion Abnormalities. Spinal Arthroplasty Society, May, 2003; Phoenix, Arizona.
134. Guyer RD: Fusion vs. Motion: Pro Fusion. (Debate) Spinal Arthroplasty Society, May, 2003; Phoenix, Arizona.
135. Guyer RD: Disc Replacement and Early US Results. Brazilian Spine Society. June, 2003; Fortaleza, Brazil.
136. Guyer RD: Vertebroplasty. Brazilian Spine Society. June, 2003; Fortaleza, Brazil.
137. 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.
138. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: Prospective Outcome Evaluation of a Total Disc Replacement. Spine Across the Sea. July, 2003; Maui, Hawaii.
139. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: Preliminary Experience with the SB Charité III Disc Prosthesis. World Spine. August 2003; Chicago, Illinois.
140. 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.

141. 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.
142. 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.
143. Guyer RD: SB Charité III Prospective Randomized U.S. Trial (Pre-course: Artificial Discs) North American Spine Society. October, 2003; San Diego, California.
144. Guyer RD: Clinical Diagnostics for Spinal Motion Abnormality. Dynamic Spine Stabilization. November, 2003; Plano, Texas.
145. Guyer RD: Unconstrained: Link SB Charité' III Disc (U.S. Experience). Dynamic Spine Stabilization. November, 2003; Plano, Texas.
146. Guyer RD: Principles of Dynamic Stabilization. Non-Fusion Technology "A State of The Art Debate". December, 2003; New York, New York/Zurich, Switzerland.
147. 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.
148. 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.
149. 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.
150. 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.
151. 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. Spinal Arthroplasty Society. May, 2004; Vienna, Austria.
152. 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. Spinal Arthroplasty Society. May, 2004; Vienna, Austria.
153. 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. Spinal Arthroplasty Society. May, 2004; Vienna, Austria.

154. 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. Spinal Arthroplasty Society. May, 2004; Vienna, Austria.
155. Guyer RD: Static Stabilization, Arthrodesis. What are the results as they compare to Arthroplasty?. North American Spine Society symposium at the Spinal Arthroplasty Society. May, 2004; Vienna, Austria.
156. 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.
157. 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.
158. 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.
159. Guyer RD: Principles of Dynamic Stabilization with Special Reference to the Posterior Column. 4<sup>th</sup> Dynesys Meeting. May, 2004; Vienna, Austria.
160. 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.
161. Guyer RD: Results of Charité Total Disc Replacement: Historical. Curso Internacional Chileno Norteamericano de Columna Vertebral. August, 2004; Santiago, Chile.
162. Guyer RD: History of Total Lumbar Disc Replacement. Curso Internacional Chileno Norteamericano de Columna Vertebral. August, 2004; Santiago, Chile.
163. Guyer RD: The Role of ALIF. Curso Internacional Chileno Norteamericano de Columna Vertebral. August, 2004; Santiago, Chile.
164. Guyer RD: Clinical and Radiological Diagnostics for Spinal Motion Abnormalities. Curso Internacional Chileno Norteamericano de Columna Vertebral. August, 2004; Santiago, Chile.
165. Guyer RD: Charité. Innovative Techniques in Spine Surgery. August, 2004; Los Cabos, Mexico.
166. Guyer RD: Surgical techniques and FDA data. International Symposium Non-Fusion techniques in Spinal Surgery. September, 2004; Milan, Italy.
167. Guyer RD: Unconstrained Lumbar Disc Prosthesis Long Term Follow-up. Nonfusion Techniques in Spinal Surgery. September, 2004; Milan, Italy.

168. 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. 2004; San Francisco, California.
169. Blumenthal S, McAfee P, Guyer RD, 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.
170. 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 Charité Disc Replacement – A Radiographic Outcome Analysis of 276 Consecutive Patients. North American Spine Society. October, 2004; Chicago, Illinois.
171. 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.
172. Guyer RD: The Case for Motion. Emerging Technologies in Spine Surgery. September - October, 2004; Washington, D.C.
173. Guyer RD: Clinical Experience with Charité. Emerging Technologies in Spine Surgery. September - October, 2004; Washington, D.C.
174. Guyer RD: MIS Approach with Atavi. 2nd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2004; Dallas, Texas/Basel, Switzerland.
175. Guyer RD: SB Charité III Study. 2nd Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2004; Dallas, Texas/Basel, Switzerland.
176. Guyer RD: Lumbar Disc Replacement. Emerging Technologies in Spinal Care - Fifth Annual Herman Lohman Memorial Symposium. November, 2004; Livingston, New Jersey.
177. 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.
178. Guyer RD: Review of Lumbar Arthroplasty. North American Spine Society Spring Break. April, 2005; Bal Harbour, Florida.
179. Guyer RD: Total Posterior Element Replacement. North American Spine Society Spring Break. April, 2005; Bal Harbour, Florida.
180. 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. Spinal Arthroplasty Society. May, 2005; New York, New York.
181. 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. Spinal Arthroplasty Society. May, 2005; New York, New York.

182. 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. Spinal Arthroplasty Society. May, 2005; New York, New York.
183. Guyer RD, Tromanhauser S, Toselli R: An Economic Analysis of Lumbar Total Disc Replacement vs. Fusion. Spinal Arthroplasty Society. May, 2005; New York, New York.
184. 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. International Society for the Study of the Lumbar Spine. May, 2005; New York, New York.
185. 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.
186. 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.
187. Guyer RD: Live Surgery: Total Artificial Disc Prosthesis – Lumbar (broadcast from Switzerland). Live Instructional Non-Fusion Spine Course. May, 2005; New York, New York.
188. Guyer RD, Stoll J: Debate: Artificial Lumbar Disc vs. Traditional Fusion. Emerging Technologies in Spine Surgery. June, 2005; Las Vegas, Nevada.
189. Guyer RD: Charité. Innovative Techniques in Spine Surgery. July, 2005; Los Cabos, Mexico.
190. 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.
191. McAfee, PC, Geisler FH, Saily 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.
192. 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 CHARITÉ Artificial Disc. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Alberta, Canada.
193. 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.

194. Guyer RD, Blumenthal SL, Hochschuler SH, McAfee PC, Regan JJ, Ohnmeiss DD: Prospective randomized comparison of total disc replacement to fusion a 24 month followup FDA regulated study. *World Spine*. August, 2005; Brazil.
195. Holt RT, SL Blumenthal, PC McAfee, ME Majd, RD Guyer, JE Isaza, SH Hochschuler, FH Geisler, R Garcia Jr., JJ Regan, DD Ohnmeiss: 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.
196. 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.
197. Guyer RD: Clinical Issues with the Charité. Emerging Technology meeting. September, 2005; Washington, D.C.
198. McAfee P, Geisler F, Regan J, Blumenthal SL, Guyer R, Fedder I, Tortolani J, Cunningham B, Saiedy S: Revisability of the Charité Artificial Disc Replacement: Analysis of 347 Patients Enrolled in the US IDE Study of the Charité Artificial Disc. *North America Spine Society*. Sept-Oct, 2005; Philadelphia, Pennsylvania.
199. 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 Charité Artificial Disc. *North America Spine Society*. Sept-Oct, 2005; Philadelphia, Pennsylvania.
200. 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.
201. Guyer RD: Flexible Posterior Rods (Symposium on Emerging Technology). *North American Spine Society*; Sept-Oct, 2005; Philadelphia, Pennsylvania.
202. 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 CHARITÉ' Artificial Disc. *Congress of Neurological Surgeons*. October, 2005; Boston, Massachusetts.
203. Geisler FH, McAfee PC, Saiedy S, Moore S, Blumenthal SL, Guyer RD, Regan JJ: The Revisability of the CHARITÉ' Artificial Disc: Analysis of 688 Consecutive Patients from a Prospective, Randomized, Multicenter IDE Trial. *Congress of Neurological Surgeons*. October, 2005; Boston, Massachusetts.
204. Guyer RD: The TOPS System. *Non Fusion Technologies in Spinal Surgery*. November, 2005; Brussels, Belgium.
205. Guyer RD: Charité. *Non Fusion Technologies in Spinal Surgery*. November, 2005; Brussels, Belgium.

206. Guyer RD: Teeth Anchoring. 3<sup>rd</sup> Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2005; Dallas, Texas/Zurich, Switzerland.
207. Guyer RD: Update on Charité. 3<sup>rd</sup> Trans Atlantic Spine Congress “Innovations in Spine Surgery”. November, 2005; Dallas, Texas/Zurich, Switzerland.
208. Guyer RD: 5-year Follow-up of Patients Enrolled in the Charité Artificial Disc IDE Study. Spine Arthroplasty Summit. February, 2006; Salt Lake City, Utah.
209. Guyer RD: An Economic Analysis of Lumbar Arthroplasty vs. Fusion. Spine Arthroplasty Summit. February, 2006; Salt Lake City, Utah.
210. Guyer RD: Patient Selection: Patients Aged 45-60. Spine Arthroplasty Summit. February, 2006; Salt Lake City, Utah.
211. Guyer RD: Lumbar Disc Arthroplasty: Past, Present, and Future. John McCulloch Memorial Denver Spine Institute Winter Conference. February, 2006; Denver, Colorado.
212. Guyer RD: Difficult Decision Making in Total Disc Replacement. John McCulloch Memorial Denver Spine Institute Winter Conference. February, 2006; Denver, Colorado.
213. Guyer RD: Testing of Arthroplasty Devices: Clinical Outcomes. North American Spine Society Spring Break. March, 2006; San Diego, California.
214. Guyer RD: Spinal Stenosis: Surgical Decompression. North American Spine Society Spring Break. March, 2006; San Diego, California.
215. 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.
216. 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.
217. 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.
218. Guyer RD: Indications and Results of the S.B. Charité Arthroplasty Device Advanced Lumbar Spine Surgery: Minimally Invasive Surgery and Motion Preservation: A Hands-On Course. June, 2006; Memphis, Tennessee.
219. 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. Bergen, Norway; June, 2006.

220. McAfee, P, Geisler F, Saiedy S, Moore S, Regan J, Guyer R, Blumenthal S, Fedder I, Tortolani J, Cunningham B: Revisability 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. Bergen, Norway; June, 2006.
221. Guyer RD: Is Motion Preservation the way to go? (Debate: Pro) International Society for the Study of the Lumbar Spine. Bergen, Norway; June, 2006.
222. Guyer RD: Charité. Innovative Techniques in Spine Surgery. June, 2006; Los Cabos, Mexico.
223. Guyer RD: Indications and Results of the S.B. Charité Arthroplasty Device Advanced Lumbar Spine Surgery: Minimally Invasive Surgery and Motion Preservation: A Hands-On Course. June, 2006; Memphis, Tennessee.
224. 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.
225. 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.
226. 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.
227. 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.
228. 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.
229. 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.
230. 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.



231. 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.
232. Guyer RD: Anterior Cervical Fusion. Simpósio Internacional de Coluna (SINCOL). August, 2006; Rio de Janeiro, Brazil.
233. Guyer RD: Dynamic Screw Fixation non-constrictive (Dynesys). Simpósio Internacional de Coluna (SINCOL). August, 2006; Rio de Janeiro, Brazil.
234. Guyer RD: Pseudoarthrosis (or Failed Back?) – Diagnostic and Treatment. Simpósio Internacional de Coluna (SINCOL). August, 2006; Rio de Janeiro, Brazil.
235. Guyer RD: News Perspectives on the treatment of Degenerative Disc Disease. Simpósio Internacional de Coluna (SINCOL). August, 2006; Rio de Janeiro, Brazil.
236. Guyer RD: Spine Arthroplasty – Economic Impact. Simpósio Internacional de Coluna (SINCOL). August, 2006; Rio de Janeiro, Brazil.
237. 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.
238. Siddiqui S, Guyer RD, Zigler JE, Ohnmeiss DD, Craig L, Blumenthal SL, 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.
239. 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.
240. 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.
241. Guyer RD: Defining Patient Selection: The Art of Avoiding Complications. Federation of Spine Associations. February, 2007; San Diego, California.
242. Guyer RD: Motion Preservation Technologies and Their Outcome (Instructional Course Lecture). American Academy of Orthopaedic Surgeons. February, 2007; San Diego, California.
243. Guyer RD: Lumbar Disc Replacement: Long-term Clinical and Radiological Results. Current Concepts in Emerging Technologies in Spine. February, 2007; Vail, Colorado.
244. Guyer RD: Lumbar Motion vs. Fusion. Current Concepts in Emerging Technologies in Spine. February, 2007; Vail, Colorado.

245. 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.
246. Guyer RD, McAfee PC, Banco RJ, Bitan FD, Cappuccino A, Geisler FH, Hochschuler SH, Holt RT, Jenis LG, Majd ME, Mullin BB, Regan JJ, Stadian 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 Charité Artificial Disc. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
247. 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.
248. 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 Charité artificial disc: Review of 1,938 patients from eight leading international spine centers. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
249. 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.
250. Geisler FH, Guyer RD, Blumenthal SL, McAfee PC, Cappuccino A, Bitan F, 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.
251. Blumenthal SB, Zigler JE, Guyer RD, Ohnmeiss DD: Comparison of Charité 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.
252. 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.
253. Cunningham BW, Demuth G, McAfee PC, Scott-Young M, Yoon, KJ, Blumenthal SL, Guyer RD, MD, Geisler F, Regan JJ, Conix B, Hes R, Pimenta L, Diaz R, Fedder RL, Tortolani J. Survivorship Analysis of the CHARITÉ Artificial Disc: Review of 1,938 Patients from Eight Leading International Spine Centers. International Meeting on Advanced Spinal Techniques (IMAST). July, 2007; Paradise, Bahamas.
254. McAfee PC, Cunningham BW, Geisler F, Guyer RD, Blumenthal SL, MD, 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.

255. 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.
256. Guyer RD: Myths of Spine Surgery. Neuroscience Lecture Series. August, 2007; Plano, Texas.
257. Blumenthal SL, Guyer RD, Ohnmeiss DD, Sachs BL, Hochschuler SH, Rashbaum RF: Comparison of Charité vs. ProDisc for the Treatment of Single-level Symptomatic Disc Degeneration: Prospective Data from One Center. Spine Society of Europe. October, 2007; Brussels, Belgium.
258. Guyer RD, McAfee PC, Banco RJ, Bitan FD, Cappuccino A, Geisler FH, Hochschuler SH, Holt RT, Jenis LG, Majd ME, Mullin BB, Regan JJ, Stadian 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 Charité artificial disc. North American Spine Society. October, 2007; Austin, Texas.
259. Cunningham BW, Demuth G, McAfee PC, Scott-Young M, Yoon, KJ, Blumenthal SL, Guyer RD, MD, Geisler F, Regan JJ, Conix B, Hes R, Pimenta L, Diaz R, Fedder RL, Tortolani J. Survivorship Analysis of the CHARITÉ Artificial Disc: Review of 1,938 Patients from Eight Leading International Spine Centers. North American Spine Society. October, 2007; Austin, Texas.
260. Guyer RD: The Paradox in Medicine Today -Exciting Technology and Economic Challenges. (Presidential Address) North American Spine Society. October, 2007; Austin, Texas.
261. 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. Asian Pacific Spine Arthroplasty Society. January, 2008; Seoul, South Korea.
262. Guyer R, Cappuccino A, Blumenthal S: A Prospective Randomized Comparison of Two Lumbar Total Disc Replacements. Asian Pacific Spine Arthroplasty Society. January, 2008; Seoul, South Korea.
263. 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.
264. Guyer RD: Future of Healthcare in the US. Emerging Technologies Spine Education Summit. February, 2008; Jackson Hole, Wyoming.
265. Guyer RD: Charité Data. Current Concepts in Spinal Disorders. February, 2008; Las Vegas, Nevada.
266. Guyer RD: Kineflex. Current Concepts in Spinal Disorders. February, 2008; Las Vegas, Nevada.

267. Guyer RD: TDR Technology is Economically Feasible (Debate). Current Concepts in Spinal Disorders. February, 2008; Las Vegas, Nevada.
268. Guyer RD: Off-label Use of Innovative Medical Technology. Lumbar Spine Research Society. April, 2008; Chicago, Illinois.
269. 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.
270. 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.
271. 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 on Clinical outcomes following lumbar arthroplasty. Congress of Neurological Surgeons / American Association of Neurological Surgeons. February, 2008; Orlando, Florida.
272. 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.
273. Guyer RD: Off-label Use of Innovative Medical Technology. Lumbar Spine Research Society. April, 2008; Chicago, Illinois.
274. Guyer, RD, Cappuccino A, Blumenthal SL: A Prospective Randomized Comparison of Two Lumbar Total Disc Replacements. Spine Arthroplasty Society. May, 2008; Miami, Florida.
275. 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.
276. 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.
277. 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. *Eurospine*. May, 2008; Geneva, Switzerland.
278. 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.
279. 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.
280. Guyer RD: Kineflex. *Innovative Techniques in Spine Surgery*. June, 2008; Los Cabos, Mexico.
281. 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.
282. Guyer RD: Surgical Options for the Degenerative Cascade. *Simposio Internacional de Coluna*. July, 2008; Rio de Janeiro, Brazil.
283. Guyer RD: New Surgical Options for Spinal Stenosis. *Simposio Internacional de Coluna*. July, 2008; Rio de Janeiro, Brazil.
284. 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.
285. Guyer RD: Fusion versus Hybrid Total Disc Replacement for Degenerative Disc Disease. *Simposio Internacional de Coluna*. July, 2008; Rio de Janeiro, Brazil.
286. 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.
287. 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.
288. 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 Charité Artificial Disc Versus Lumbar Fusion – 5 Year Follow-up. *International Meeting on Advanced Spinal Techniques (IMAST)*. July, 2008; Hong Kong, China.
289. 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.

290. 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.
291. 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.
292. 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.
293. 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.
294. 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.
295. Guyer RD: Surgical Options for the Degenerative Cascade. Simposio Internacional de Coluna. July, 2008; Rio de Janeiro, Brazil.
296. Guyer RD: New Surgical Options for Spinal Stenosis. Simposio Internacional de Coluna. July, 2008; Rio de Janeiro, Brazil.
297. 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.
298. Guyer RD: Fusion versus Hybrid Total Disc Replacement for Degenerative Disc Disease. Simposio Internacional de Coluna. July, 2008; Rio de Janeiro, Brazil.
299. Guyer RD: Myths of Spine Surgery. Neuroscience Lecture Series. August, 2008; Plano, Texas.
300. Guyer RD: Lumbar ADR: State of the Art. (Pre-course). North American Spine Society. October, 2008; Toronto, Canada.
301. Guyer RD, Cappucino A, Blumenthal S: A Prospective Randomized Comparison of Two Lumbar Total Disc Replacements. North American Spine Society. October, 2008; Toronto, Canada.
302. 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.

303. Guyer RD : Eighteen Years of Total Disc Replacement in TBI. First Capital Summit on Orthopaedics. October, 2008; Beijing, China.
304. Guyer RD : Eighteen Years of Total Disc Replacement in TBI. Grand Rounds – Hospital 304 of Peoples’ Liberation Army. October, 2008; Beijing, China.
305. Guyer RD: Indications of Semi-rigid Fixation. Brussels International Spine Symposium. November, 2008; Brussels, Belgium.
306. Guyer RD: Overview of Existing Pedicle Based Dynamic Systems. Brussels International Spine Symposium. November, 2008; Brussels, Belgium.
307. Guyer RD: Considerations in Physician-Owned Companies: Divesting or Disclosure? Emerging Technologies Spine Education Summit. February, 2009; Steamboat Springs, Colorado.
308. Guyer RD: Lumbar TDR: Indications - Patient Selection - Contra-Indications. Current Concepts in Spinal Disorders. February, 2009; Las Vegas, Nevada.
309. Guyer RD: Is There A Role for Hybrid Constructs? Current Concepts in Spinal Disorders. February, 2009; Las Vegas, Nevada.
310. Guyer RD: Argument for Lumbar Arthroplasty (Symposium Debate). American Academy of Orthopaedic Surgeons. February, 2009; San Francisco, California.
311. 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.
312. Guyer RD, Auer PB, 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.
313. 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.
314. Guyer RD: Can Society Afford TDR? (Symposium: Challenges and Complications). Spine Arthroplasty Society. April-May, 2009; London, England.
315. 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.
316. 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.

317. 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.
318. 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.
319. 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.
320. 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.
321. 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.
322. 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. Spine Across the Sea. July, 2009; Maui, Hawaii.
323. Guyer RD, Auer PB, Zigler JE, Blumenthal SL, Ohnmeiss DD: Relationship between Endplate Morphology and Clinical Outcome of Single-Level Lumbar Disc Arthroplasty. Spine Across the Sea. July, 2009; Maui, Hawaii.
324. 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.
325. 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.
326. 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.
327. 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.
328. 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.



329. 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.
330. 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.
331. Guyer RD: The Paradox in Orthopaedics Today - Exciting Technology and Economic Challenges. China International Congress of Orthopaedics. August, 2009; Beijing, China.
332. Guyer RD: Economics of Motion Technology: Surgeon Perspective (Pre-Course: Section on Motion Technology). North American Spine Society (NASS). October, 2009; San Francisco, California.
333. Guyer RD: Muscle Sparing Approaches. Brussels International Spine Symposium. November, 2009; Brussels, Belgium.
334. Guyer RD: The Future of Nucleus Replacement. Brussels International Spine Symposium. November, 2009; Brussels, Belgium.
335. Guyer RD: Arthroplasty: Update and Current Evidence. Evidence and Technology Spine Summit. January, 2010; Steamboat Springs, CO.
336. Guyer RD: Evidence for Facet Replacement. Evidence and Technology Spine Summit. January, 2010; Steamboat Springs, CO.
337. 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.
338. 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.
339. Guyer RD: Lumbar ADR: Indications – Patient Selections – Contra-Indications. Current Concepts in Spinal Disorders. February, 2010; Las Vegas, Nevada.
340. Guyer RD: Lumbar ADR: Charite. Current Concepts in Spinal Disorders. February, 2010; Las Vegas, Nevada.
341. Guyer RD: Cervical ADR: Kineflex-C. Current Concepts in Spinal Disorders. February, 2010; Las Vegas, Nevada.
342. 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.

343. 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.
344. 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.
345. Ohnmeiss DD, Hume CS, Guyer RD, Zigler JE, Blumenthal SL: Cost Comparisons of Total Disc Replacement vs. Fusion in Patients with Insurance Denial for Disc Replacement. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
346. 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.
347. 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.
348. 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.
349. 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 Anular Repair after Lumbar Discectomy. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
350. Guyer RD: Innovations in Anular Repair. Innovative Techniques in Spine Surgery. June, 2010; Los Cabos, Mexico.
351. Guyer RD: Lumbar TDR: Adoption challenges. Innovative Techniques in Spine Surgery. June, 2010; Los Cabos, Mexico.
352. 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.
353. 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.

354. 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.
355. 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.
356. Guyer RD: Posterior Lumbar Inerbody Fusion. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
357. Guyer RD: Lumbar TDR: Difficulties with Adoption 10 Years Later in the US. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
358. Guyer RD: Current State of Dynamic Stabilization. Simpósio Internacional de Coluna (SINCOL). August, 2010; Rio de Janeiro, Brazil.
359. Guyer RD: MIS Indirect Decompression for Spondylolisthesis. Simpósio Internacional de Coluna (SINCOL). August, 2010; Rio de Janeiro, Brazil.
360. Guyer RD: Is Total Disc Replacement an MIS Alternative to Fusion? Simpósio Internacional de Coluna (SINCOL). August, 2010; Rio de Janeiro, Brazil.
361. Guyer RD: Cervical Total Disc Replacement: TBI Experience. Simpósio Internacional de Coluna (SINCOL). August, 2010; Rio de Janeiro, Brazil.
362. 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.
363. 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.
364. 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.
365. 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.

366. 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.
367. 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.
368. 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.
369. 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.
370. 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.
371. 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.
372. Guyer RD: Anterior Interbody Fusion. (Pre-course: Lumbar Interbody Fusion Technologies). North American Spine Society. October, 2010; Orlando, Florida.
373. 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.
374. Guyer RD: Anular Repair. Instructional Course: State of the Art on the Advances of Research of the Lumbar Spine. October, 2010; Beijing, China.
375. 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.

376. 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.
377. Guyer RD: What is “Dynamic Fusion”? Brussels International Spine Symposium. November, 2010; Brussels, Belgium.
378. Guyer RD, Mayer M: Debate: Is Fusion still the Gold Standard? Brussels International Spine Symposium. November, 2010; Brussels, Belgium.
379. Guyer RD: What have We Learned from the Medicare Coverage Advisory Committee Meeting on Spinal Fusion? Brussels International Spine Symposium. November, 2010; Brussels, Belgium.
380. 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.
381. Guyer RD: Lumbar Surgery - Case Presentations. Current Concepts in Spinal Disorders. February, 2011; Las Vegas, Nevada.
382. Guyer RD: Lumbar TDR: Difficulties with Adoption 11 Years Later in the US. Current Concepts in Spinal Disorders. February, 2011; Las Vegas, Nevada.
383. Guyer RD: Making the Best of the Worst: Lumbar Surgery Cases. Current Concepts in Spinal Disorders. February, 2011; Las Vegas, Nevada.
384. 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.
385. 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.
386. Guyer RD: Role of Disc Height Restoration with DDD. Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.
387. Guyer RD: 5 Year Index Level Motion in LTDR. Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.
388. Guyer RD: Lumbar Disc Disease: Introduction With Case Presentation. Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.
389. Guyer RD: Impact of Pre-Op DEXA Scores in 5 Year Follow Up. Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.

390. Zigler JE, Thongtrangan I, Ohnmeiss DD, 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.
391. 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.
392. Duffy MF, Zigler JE, Blumenthal SL, Guyer RD, 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.
393. 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.
394. 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.
395. Guyer RD: Making the Best of the Worst: Lumbar Surgery Cases. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
396. 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.
397. Guyer RD: Lumbar TDR: Is there a future? Innovative Techniques in Spine Surgery: "Think Tank 2011." June, 2011; Los Cabos, Mexico.
398. Guyer RD: Posterior Lumbar Fusion – Indications and Outcomes. International Meeting on Advanced Spine Techniques. July, 2011; Copenhagen, Denmark.
399. Guyer RD: Lumbar Disc Replacement – Long-term Follow-up. International Meeting on Advanced Spine Technologies. July, 2011; Copenhagen, Denmark.
400. 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.
401. Guyer RD: Mini Invasive and Indirect Decompression for Spondylolisthesis. Brussels International Spine Symposium. November, 2011; Brussels, Belgium.
402. Guyer RD: Perc Screws and Radiation. To patient and surgeon. Brussels International Spine Symposium. November, 2011; Brussels, Belgium.
403. 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.

404. 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.
405. Zigler JE, Guyer RD, Blumenthal SL, Hisey MS, Atanasov AM, 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.
406. Guyer RD: What to Expect from a Fellowship. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
407. Guyer RD: Advocacy: Getting Involved to Shape Your Own Future. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
408. Guyer RD: Motion Preserving Technologies: Lumbar. Transitions in Spine Surgery: Residency to Fellowship, Fellowship to Practice. January, 2012; Plano, Texas.
409. 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.
410. Guyer RD: Inside an FDA Clinical Trial. Texas Health Center for Diagnostics and Surgery. January, 2012; Plano, Texas.
411. Guyer RD: Incorporating Research into Private Practice. Spine Fellows Course. January, 2012; Vail, Colorado.
412. Guyer RD: Myths of Spine Surgery. Spine Fellows Course. January, 2012; Vail, Colorado.
413. Guyer RD: The Future of Artificial Disc Replacement. Current Concepts in Spinal Disorders. February, 2012; Las Vegas, Nevada.
414. Guyer RD: Evidence for Lumbar Arthroplasty. American Academy of Orthopaedic Surgeons. February, 2012; San Francisco, California.
415. 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.
416. 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.
417. 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.
418. 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.
419. 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.
  420. 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.
  421. Guyer RD: Implementing a Quality Assurance Program for your Practice. "State of Spine Surgery: A Think Tank". June, 2012; Carlsbad, California.
  422. Guyer RD: Lumbar TDR: Is There Any Future? "State of Spine Surgery: A Think Tank". June, 2012; Carlsbad, California.
  423. Guyer RD: Kineflex|C. "State of Spine Surgery: A Think Tank". June, 2012; Carlsbad, California.
  424. 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.
  425. 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.
  426. 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.
  427. 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.
  428. 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.
  429. Ohnmeiss DD, Duffy MF, Belanger TA, 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.
  430. 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.
  431. 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.



432. Guyer RD: Lumbar Total Disc Replacement: Update on Comparative FDA Studies. Total Disc 2012. September, 2012; Zurich, Switzerland.
433. Guyer RD: Lumbar Total Disc Replacement: Problems of Adoption in the USA. Total Disc 2012. September, 2012; Zurich, Switzerland.
434. Guyer RD: Cost of Total Disc Replacement and Fusion. Total Disc 2012. September, 2012; Zurich, Switzerland.
435. Guyer RD: Cervical Total Disc Replacement: Update on Comparative FDA Studies. Total Disc 2012. September, 2012; Zurich, Switzerland.
436. 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.
437. 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.
438. 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.
439. 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.
440. Guyer RD: Update on Lumbar TDR: The Future. (part of Lumbar Disc Replacement Symposium). North American Spine Society. October, 2012; Dallas, Texas.
441. Guyer RD: Incorporating Research into Private Practice. Spine Fellows Course. January, 2013; Vail, Colorado.
442. Guyer RD: Myths of Spine Surgery - Doctor-Patient Relationships-Decision Making. Spine Fellows Course. January, 2013; Vail, Colorado.
443. Guyer RD: Controversy of Metal on Metal Disc Replacements. Symposium on Spinal Disorders. January-February, 2013; Las Vegas, Nevada.
444. Guyer RD: Keynote: Future Innovations in Spine: Opportunities and Challenges. Symposium on Spinal Disorders. January-February, 2013; Las Vegas, Nevada.
445. Guyer RD: Inside an FDA Clinical Trial. Texas Health Center for Diagnostics and Surgery. January, 2012; Plano, Texas.
446. 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.
447. 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

- Device. International Society for the Advancement of Spine Surgery. April, 2013; Vancouver, Canada.
448. 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.
  449. 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.
  450. 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.
  451. 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.
  452. Guyer RD: Stand Alone Anterior Interbody Fusion. China International Conference on Lumbar Spine. May, 2013;.Xi'an, China.
  453. Guyer RD: Peer Review and Quality Assurance for Spine Surgery. China International Conference on Lumbar Spine May, 2013;.Xi'an, China.
  454. Guyer RD: Lumbar Total Disc Replacement Long Term Outcomes. China International Conference on Lumbar Spine. May, 2013;.Xi'an, China.
  455. 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 International Society for the Study of the Lumbar Spine. May, 2013; Scottsdale, Arizona.
  456. 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.
  457. 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.
  458. Guyer RD: Lumbar TDR: Is It Alive? State of Spine Surgery: "Think Tank." June, 2013; Los Cabos, Mexico.
  459. 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
  460. Guyer RD: Current Indications and Clinical Results of Lumbar TDR vs. Lumbar Fusion. North American Spine Society – Summer Spine Meeting. August, 2013; Naples, Florida.

461. 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.
462. 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.
463. 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.
464. Guyer RD: How Computers Have Changed the Practice of Medicine Over the Last 20 Years. Brussels International Spine Symposium. November, 2013; Brussels, Belgium.
465. 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.
466. 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.
467. Guyer RD: Strategies Ensuring Uniform Quality of Care among Spine Surgeons without Stifling Creativity. Spine Summit. February, 2014; Dallas, Texas.
468. Guyer RD: Cervical TDR: US Experience. International Symposium for Cervical and Lumbar Arthroplasty. March, 2014; Barcelona, Spain.
469. Guyer RD: Revision of Cervical Disc Arthroplasty from 6 FDA IDE Studies at One Center. International Symposium for Cervical and Lumbar Arthroplasty. March, 2014; Barcelona, Spain.
470. Guyer RD: Clinical Outcomes and Cost Effectiveness of Lumbar TDR. International Symposium for Cervical and Lumbar Arthroplasty. March, 2014; Barcelona, Spain.
471. 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.
472. Guyer RD: Motion Preservation Surgery: Is It Worthy? International Society for the Study of the Lumbar Spine Instructional Course. March, 2014; Santiago, Chile.
473. Guyer RD: Is There Still a Place for BMP? International Society for the Study of the Lumbar Spine Instructional Course. March, 2014; Santiago, Chile.
474. Guyer RD: Debate: Fusion for Low Back Pain? (Yes) International Society for the Study of the Lumbar Spine Instructional Course. March, 2014; Santiago, Chile.
475. Guyer RD: Stand-alone ACDF vs. Plate and Screw Constructs. Current Solutions in Spine Surgery. April, 2014; Duck Key, Florida.

476. Guyer RD: Lumbar Total Disc Replacement: Alive and Well. Current Solutions in Spine Surgery. April, 2014; Duck Key, Florida.
477. 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.
478. 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.
479. 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.
480. 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.
481. Biehn 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.
482. Guyer RD: Status of Disc Arthroplasty. International Society for the Study of the Lumbar Spine. June, 2014; Seoul, Korea.
483. Ohnmeiss DD, Baker R, 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 Study of the Lumbar Spine. June, 2014; Seoul, Korea.
484. Guyer RD: Can New Technologies Be Cost Saving? Disc Replacement. *State of Spine Surgery: A Think Tank*. June, 2014; Los Cabos, Mexico.
485. Guyer RD: The CPT Process. What Data Do We Need for Reimbursement? *State of Spine Surgery: A Think Tank*. June, 2014; Los Cabos, Mexico.
486. Guyer RD: Using Advanced Imaging to Increase Surgical Approvals. *State of Spine Surgery: A Think Tank*. June, 2014; Los Cabos, Mexico.
487. Guyer RD: Myths of Spine Surgery. August, 2014; Plano, Texas.
488. Guyer RD: Surgical Approaches in the Elderly. Brussels International Spine Symposium. November, 2014; Brussels, Belgium.
489. Guyer RD: Stenosis in the Elderly: to Fuse or Not. Brussels International Spine Symposium. November, 2014; Brussels, Belgium.
490. Guyer RD: Is There an Age Limit to Surgery? Brussels International Spine Symposium. November, 2014; Brussels, Belgium.
491. Guyer RD: The Truth: From Charite to Now – This is Not Another Marketing Talk! Current Concepts in Spinal Disorders. January, 2015; Las Vegas, Nevada.

492. Guyer RD, Otero-Lopez E, Blumenthal SL, Ohnmeiss DD, Zigler JE: Comparison of Clinical Outcomes for Anterior vs. 360 Fusion at the Fusion Level of Lumbar Hybrid Surgery. Spine Society of Australia. April, 2015; Canberra, Australia.
493. Guyer RD, Blumenthal SL, Ohnmeiss DD, Zigler JE: Long-Term Evaluation of Re-Operation Rates for Lumbar Total Disc Replacement and Fusion: Analysis of 1,279 Patients. Spine Society of Australia. April, 2015; Canberra, Australia.
494. Hipp JA, Guyer RD, Zigler JE, Ohnmeiss DD, Wharton N: A New Method Correlating an Objective Radiographic Metric for Lumbar Spine Stability and the Facet Fluid Sign on MRI. International Society for the Advancement of Spine Surgery. April, 2015; San Diego, California.
495. Guyer RD, Putney E, Carl A, Tepper G, Ohnmeiss DD: When Would a Spine Surgeon Have Surgery for a Herniated Disc? International Society for the Advancement of Spine Surgery. April, 2015; San Diego, California.
496. Hipp JA, Zigler JE, Guyer RD, Ohnmeiss DD, Wharton N: Developing Normative Values for a Quantifiable, Clinically Applicable Method to Evaluate Lumbar Instability. International Society for the Advancement of Spine Surgery. April, 2015; San Diego, California.
497. Guyer RD: Cervical Disc Arthroplasty, is it the New Gold Standard? Brazilian Spine Society. April, 2015; Belo Horizonte, Brazil.
498. Guyer RD: Surgical Approaches to Treat Spinal Stenosis. Brazilian Spine Society (North American Spine Society section). April, 2015; Belo Horizonte, Brazil.
499. Owusu A, Zigler JE, Ohnmeiss DD, Guyer RD, Blumenthal SL: Pregnancy after Lumbar Total Disc Replacement. Global Spine Congress. May, 2015; Buenos Aires, Argentina. Global Spine Congress. May, 2015; Buenos Aires, Argentina.
500. Happ C, Guyer RD, Zigler JE, Blumenthal SL, Ohnmeiss DD: Stand-alone Interbody Devices in the Treatment of Cervical Spine Disease. Global Spine Congress. May, 2015; Buenos Aires, Argentina.
501. Guyer RD, Otero-Lopez E, Zigler JE, Ohnmeiss DD, Blumenthal SL Comparison of Clinical Outcomes for Anterior vs. 360 Fusion at the Fusion Level of Lumbar Hybrid Surgery. Global Spine Congress. May, 2015; Buenos Aires, Argentina.
502. Guyer RD, Putney E, Carl A, Tepper G, Ohnmeiss DD: When Would a Spine Surgeon Have Surgery for a Herniated Disc? Global Spine Congress. May, 2015; Buenos Aires, Argentina.
503. Guyer RD: Coflex: A Minimally Invasive Motion Sparing Technique for the Treatment of Spinal Stenosis. Chinese Orthopaedic Association. May, 2015; Beijing, China.
504. Guyer RD: TDR: An Economic Advantage? State of Spine Surgery: A Think Tank. June, 2015; Los Cabos, Mexico.
505. Guyer RD: How Do Economics Drive Clinical Decision-making? State of Spine Surgery: A Think Tank. June, 2015; Los Cabos, Mexico.

506. Ohnmeiss, DD, Guyer RD, Blumenthal SL, Zigler JE: The Re-operation Rate in a Single Dataset Varies Significant Depending on the Definitions Applied. Spine Across the Sea. July, 2015; Big Island, Kohala Coast, Hawaii.
507. 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. Spine Across the Sea. July, 2015; Big Island, Kohala Coast, Hawaii.
508. Otero-Lopez ER, Blumenthal SL, Ohnmeiss, Guyer RD, Zigler JE: Comparison of Clinical Outcomes for Anterior vs. 360 Fusion at the Fusion Level of Lumbar Hybrid (Total Disc Replacement / Fusion) Surgery. Spine Across the Sea. July, 2015; Big Island, Kohala Coast, Hawaii.
509. Hu X, Ohnmeiss DD, Zigler JE, Guyer RD, Lieberman IH: Restoration of Cervical Alignment is Associated with Improved Clinical Outcome after One and Two Level Anterior Cervical Discectomy and Fusion. North American Spine Society. October, 2015; Chicago, Illinois.
510. Guyer RD: Lumbar TDR: Where Are We Now? (Part of precourse: The Evolution of Total Disc Replacement and Future Directions). North American Spine Society. October, 2015; Chicago, Illinois.
511. Guyer RD: To Integrate or Not to Integrate, That Is the Question. (Part of symposium: Interbody Fusion Options: So Many Designs, So Many Materials... How Do You Choose the Best Option for Your Patient?). North American Spine Society. October, 2015; Chicago, Illinois.
512. Hu X, Ohnmeiss DD, Zigler JE, Guyer RD, Lieberman IH: Restoration of Cervical Alignment is Associated with Improved Clinical Outcome after One- and Two-Level Anterior Cervical Discectomy and Fusion. North American Spine Society. October, 2015; Chicago, Illinois.
513. Guyer RD: New Technology for Decompression of the Lumbar Spine Inside Out. Brussels International Spine Symposium. November, 2015; Brussels, Belgium.
514. Guyer RD: 3D Printing for Spinal Implants. Brussels International Spine Symposium. November, 2015; Brussels, Belgium.
515. Guyer R: ALIF with MIS Pedicle Screws. Current Concepts in Spinal Disorders. January, 2016; Las Vegas, Nevada.
516. Guyer R: Is Lumbar Artificial Disc Really Worth the Expense? Current Concepts in Spinal Disorders. January, 2016; Las Vegas, Nevada.
517. Hisey M, Zigler J, Guyer R, Ohnmeiss D: Impact of Age on Patient Outcomes after Cervical Disc Arthroplasty or Anterior Cervical Discectomy and Fusion: Comparison at 5-Year Follow-up. International Society for the Advancement of Spine Surgery. April, 2016; Las Vegas, Nevada.
518. Zigler J, Shivers J, Guyer R, Ohnmeiss D: Complications Associated with the Anterior Approach to the Lumbar Spine: Analysis of 2,881 Consecutive Cases during a 6-year

- Period. International Society for the Advancement of Spine Surgery. April, 2016; Las Vegas, Nevada.
519. Guyer R, Putney E, Ohnmeiss D, Zigler J: Analysis of Hospital Length of Stay Following Lumbar Anterior/Posterior Combined Fusion: Is There a Disadvantage Associated with Shorter Stays? International Society for the Advancement of Spine Surgery. April, 2016; Las Vegas, Nevada.
  520. Guyer RD: Coflex- Incremental Value. (Part of Symposium: New Technologies - Hype or Incremental Value?). International Society for the Advancement of Spine Surgery. April, 2016; Las Vegas, Nevada.
  521. Putney E, Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Analysis of Hospital Length of Stay Following Lumbar Anterior/Posterior Combined Fusion: Is There a Disadvantage Associated with Shorter Stays? Spine Society of Australia. April, 2016; Melbourne, Australia.
  522. Blumenthal SL, Zigler JE, Shivers J, Ohnmeiss DD, Guyer RD: Complications Associated with the Anterior Approach to the Lumbar Spine: Analysis of 2,881 Consecutive Cases during a 6-Year Period. Spine Society of Australia. April, 2016; Melbourne, Australia.
  523. Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Stand-Alone Interbody Devices in the Treatment of Cervical Spine Disease. Spine Society of Australia. April, 2016; Melbourne, Australia.
  524. Guyer RD: Impact of Weight-Bearing MRI for Spine Surgery and Spine Surgeons: Preliminary Results in Lumbar Spondylolisthesis. Weight-bearing MRI Summit. May, 2016; Rome, Italy.
  525. Guyer RD, Abitbol JJ, Ohnmeiss DD, Yao C: Evaluating the osseointegration of a Deeply Porous Titanium Scaffold through Comparison with PEEK Implants and Allograft: Biomechanical Assessment Using a Porcine Skull Model. North American Spine Society – SpineWeek. May, 2016; Singapore.
  526. Hisey M, Zigler J, Guyer R, Ohnmeiss D: Impact of Age on Patient Outcomes after Cervical Disc Arthroplasty or Anterior Cervical Discectomy and Fusion: Comparison at 5-year Follow-up. International Society for the Advancement of Spine Surgery – SpineWeek. May, 2016; Singapore.
  527. Guyer R: Blast from the Past: Is There a Future for Lumbar TDR? State of Spine Surgery: A Think Tank. June, 2016; Los Cabos, Mexico.
  528. Guyer R: ECM Technology with Allograft Tissue Enhancement. State of Spine Surgery: A Think Tank. June, 2016; Los Cabos, Mexico.
  529. Guyer R: Management of Progressive Degenerative Lumbar Spinal Stenosis- An Evidence Based Approach, Past and Present. State of Spine Surgery A Think Tank. June, 2016; Los Cabos, Mexico.
  530. Guyer R: M6 Overview. State of Spine Surgery A Think Tank. June, 2016; Los Cabos, Mexico.

531. Guyer RD: The Evidence-based Use of Medications in Spine Management. Spine 10 x 25 Summit: Technology Update. July, 2016; Chicago, Illinois.
532. Guyer RD: Update on Lumbar Motion Preserving Technologies. China International Conference on Lumbar Spine Surgery. July, 2016; Jilin, China
533. Guyer RD: Lumbar Total Disc Replacement and Adjacent Segment Degeneration. China International Conference on Lumbar Spine Surgery. July, 2016; Jilin, China.
534. Guyer RD: Future Designs and Materials for Cervical Disc Replacement. International Symposium for Cervical and Lumbar Arthroplasty. October, 2016; Berlin, Germany.
535. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Re-operation Rates in Lumbar Spine Surgery: Statistically Significant Differences Exist in the Same Dataset When Different Definitions for Re-operation Are Applied. North American Spine Society. October, 2016; Boston, Massachusetts.
536. Guyer RD: 2-level Total Disc Replacement. Section on Spine Motion Technology: Debating Options for Treating Painful Lumbar Disc Degeneration and Lumbar Stenosis. North American Spine Society. October, 2016; Boston, Massachusetts.
537. Guyer RD: Is There Value in Lumbar Disc Replacement in the Treatment of Degenerative Disc Disease? Symposium: Low Back Pain Secondary to Degenerative Disc Disease: Interdisciplinary Perspectives on the Value of Treatment. North American Spine Society. October, 2016; Boston, Massachusetts.
538. Zigler JE, Putney E, Ohnmeiss DD, Guyer RD, Blumenthal SL: Anterior Access to the Lumbar Spine: Complications Encountered in 2,881 Consecutive Procedures. North American Spine Society. October, 2016; Boston, Massachusetts.
539. Guyer RD, Ohnmeiss DD, Yao C: Comparison of Abrasion and Osseointegration Associated with Titanium Plasma Spray Coated PEEK vs. FortiCore Deeply Porous Titanium Scaffold on PEEK. (Innovative Technology Exhibitors Symposium). North American Spine Society. October, 2016; Boston, Massachusetts
540. Guyer RD: Will We Surgeons Be Reduced to Pilots Navigating Our Surgery While the Computers Do the Work? Brussels International Spine Symposium. November, 2016; Brussels, Belgium.
541. Guyer RD: Cost Effectiveness of Major Reconstructive Surgery in the Elderly. Brussels International Spine Symposium. November, 2016; Brussels, Belgium.
542. Guyer RD: Bioactive Interbody Implants or Abrasion and Osseointegration Associated with Titanium Plasma Spray-Coated PEEK vs. Deeply Porous Titanium Scaffold on PEEK. Current Concepts in Spinal Disorders. February, 2017; Las Vegas, Nevada.
543. Guyer R: Does Lumbar ADR Have any Role in Spinal Deformity? Current Concepts in Spinal Disorders. February, 2017; Las Vegas, Nevada.
544. Guyer R: New Technologies: Hype or Value? Inter-spinous /laminar Devices for Lumbar Stenosis. Federation of Spine Associations at the American Academy of Orthopaedic Surgeons. March, 2017; San Diego, California.



545. Blumenthal SL, Guyer RD, Ohnmeiss DD, Zigler JE: Adjacent Segment Degeneration after Lumbar Total Disc Replacement: 5-Year Results of a Multicenter, Prospective, Randomized Study with Independent Radiographic Assessment. International Society for the Study of the Lumbar Spine. May – June, 2017; Athens, Greece.

## 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 Effects 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 Myelographic 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. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.

34. 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.
35. 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.
36. 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.
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. International Society for the Study of the Lumbar Spine. May, 1991; Heidelberg, Germany.
38. 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.
39. 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.
40. Hochschuler SH, Guyer RD, Ohnmeiss DD, Rashbaum RF, Regan JJ: Single-level Stabilization with Femur Grafts. North American Spine Society. August, 1991; Keystone, Colorado.
41. 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.
42. 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.
43. 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.
44. 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.
45. 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.

46. 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.
47. 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.
48. 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.
49. 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.
50. 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.
51. 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.
52. 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.
53. 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.
54. 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.
55. 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.
56. Weinhoffer 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.
57. 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.
58. 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.

59. Weinhoffer 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.
60. Vanharanta H, Ohnmeiss DD, Guyer RD: The Value of Post-Discographic Lidocaine Injection. North American Spine Society; October, 1994; Minneapolis, Minnesota.
61. 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.
62. 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.
63. Bogdanffy GM, Ohnmeiss DD, Guyer RD: The Relationship between Isometric Leg Function and Pain Distribution. American College of Sports Medicine. June, 1995; Minneapolis, Minnesota.
64. 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.
65. 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.
66. 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.
67. 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.
68. 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.
69. 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.
70. 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.
71. 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.

72. 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.
73. 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.
74. 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.
75. Regan JJ, Mack M, Aronoff RJ, Guyer, RD, Blumenthal, SL, Ahrens JE, Ohnmeiss DD: Development of Video-Assisted Thoracoscopic Spine Surgery. (Scientific Exhibit) *American Academy of Orthopaedic Surgeons*. February, 1997; San Francisco, California.
76. 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.
77. 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.
78. 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.
79. 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.
80. 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.
81. 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.
82. 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.
83. 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.

84. 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.
85. 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.
86. Ohnmeiss DD, Blumenthal SL, Guyer RD, Zigler JE, Hochschuler SH: Analysis of Threaded Fusion Cage Subsidence. North American Spine Society. October, 1999; Chicago, Illinois.
87. 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.
88. 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.
89. 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.
90. 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.
91. 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.
92. 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.
93. 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.
94. 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.
95. Ohnmeiss DD, Blumenthal SL, Guyer RD, Zigler JE, Hochschuler SH: Analysis of Threaded Fusion Cage Subsidence. Spine Across the Sea. July, 2000; Kona, Hawaii.
96. 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.



97. 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.
98. 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.
99. 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.
100. 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.
101. 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.
102. 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.
103. 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.
104. 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.
105. 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.
106. 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.
107. 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.
108. 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.
109. Zigler JE, Guyer RD, Chang Y, Ohnmeiss DD: Open-Door Laminoplasty in the Treatment of Cervical Myelopathy. World Spine. August 2003; Chicago, Illinois.

110. 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.
111. 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. Spinal Arthroplasty Society. May, 2004; Vienna, Austria.
112. 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.
113. 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.
114. 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.
115. Regan J, McAfee PC, Guyer RD, Blumenthal S, Geisler F: Charité 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.
116. 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
117. 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.
118. 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.
119. 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
120. Musante D, Guyer RD: Prospective Randomized Controlled Trial of Kineflex Versus Charité in Lumbar Total Disc Arthroplasty: 3 to 9 Month Follow-up. Spine Arthroplasty Society. May, 2006; Montreal, Canada.

121. 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.
122. 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.
123. 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.
124. 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.
125. Guyer R, Blumenthal S, Geisler R, McAfee P, J Regan J: The First Year Following FDA Approval of the Charité Artificial Disc: “Real World” Adverse Events Outside an IDE Study Environment. International Society for the Study of the Lumbar Spine. June, 2006; Bergen, Norway.
126. 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.
127. 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.
128. 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.
129. 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.
130. Ohnmeiss DD, Hochschuler SH, Guyer RD: Analysis of Lumbar Disc-Related Pain Mechanisms. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
131. McAfee PC, Geisler FH, Blumenthal SL, Guyer RD, Regan J, Stadlan N, Dabbah M, Siddiqi 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.

132. 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.
133. Guyer RD, Banco RJ, Bitan FD, Blumenthal SL, Cappucino A, Geisler FH, Hochschuler SH, Holt RT, Jenis, MD, 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.
134. 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.
135. 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.
136. 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.
137. 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.
138. Ohnmeiss DD, Guyer RD, Rashbaum RF: What Constitutes Success in Lumbar Spine Surgery? Spine Arthroplasty Society. May, 2007; Berlin, Germany.
139. Blumenthal SB, Zigler JE, Guyer RD, Ohnmeiss DD: Comparison of Charité vs. ProDisc for the Treatment of Single-level Symptomatic Disc Degeneration: Prospective Data from One Center. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
140. 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.
141. 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.
142. 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.

143. 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.
144. 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 Benchtop ROM and Clinical ROM from the Charité Artificial Disc FDA Level I Data. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
145. Guyer RD, Blumenthal SL, McAfee PC, Geisler F. The Effect of Age on Outcomes in Patients with One-level Arthroplasty. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
146. 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.
147. 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.
148. 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.
149. Ohnmeiss DD, Guyer RD, Rashbaum RF: What Constitutes Success in Lumbar Spine Surgery? International Meeting on Advanced Spinal Techniques (IMAST). July, 2007; Paradise, Bahamas.
150. 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.
151. 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.
152. 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.
153. 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.
154. 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. North American Spine Society. October, 2007; Austin, Texas.

155. 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.
156. Guyer R, Laurysen C, Blumenthal B: Cervical Total Disc Replacement: a Prospective Randomized Comparison to Fusion. Asian Pacific Spine Arthroplasty Society. January, 2008; Seoul, South Korea.
158. 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.
159. 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.
160. 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.
161. 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.
162. Guyer RD, Laurysen C, Blumenthal SL: A Prospective Randomized Study Comparing Cervical Total Disc Replacement to Fusion. Spine Arthroplasty Society. May, 2008; Miami, Florida.
163. Guyer RD: A Clinical Evaluation of Anular Repair Post Lumbar Discectomy. Spine Arthroplasty Society. May, 2008; Miami, Florida.
164. 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.
165. 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.
166. 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.
167. Ohnmeiss DD, Guyer RD, Blumenthal SL, 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.

168. 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. North American Spine Society SpineWeek. May 2008; Geneva, Switzerland.
169. 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 Charité Artificial Disc versus Lumbar Fusion. Eurospine. May, 2008; Geneva, Switzerland.
170. 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.
171. Banco RJ, Geisler FH, Guyer RD, Hetzell BM, Holt RT, Majd ME: Prospective, Randomized, Multi-center FDA IDE Study of Charité 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.
172. Wong DC, Jenis LG MD, 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.
173. 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.
174. 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.
175. 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.
176. 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.
177. 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.
178. 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.

179. Guyer RD, Laurysen C, Blumenthal SL: Cervical Total Disc Replacement: A Prospective, Randomized Comparison to Anterior Cervical Fusion. Cervical Spine Research Society. December, 2008; Austin, Texas.
180. Majd M, Holt R, Guyer RD, Banco R, Geisler F, Jenis L, Regan J, Wong D, Blumenthal S, Ohnmeiss DD: 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.
181. Wong DC, Jenis LG, Guyer RD, Banco RJ, Geisler FH, Holt RT, Majd ME, Regan JJ, Blumenthal SL, DeMuth GE, Hetzell BC, Ohnmeiss DD: 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.
182. Guyer RD, Geisler FH, Majd ME, Holt RT, Regan JJ, Blumenthal SL, Wong DC, Jenis LG, Banco RJ, Ohnmeiss DD: 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.
183. Guyer RD, Geisler F, Holt RT, Majd M, Regan J, Wong D, Jenis L, Banco R, Blumenthal S, Demuth G, Hetzell B, Ohnmeiss DD: 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.
184. 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
185. 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.
186. 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.
187. 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.
188. 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.



189. 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.
190. Block AR, Austin S, Ohnmeiss DD: Presurgical Psychological Screening in Total Disc Replacement Patients. Spine Arthroplasty Society. April, 2009; London, England.
191. 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.
192. 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.
193. 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.
194. 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.
195. 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.
196. 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.
197. 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.
198. 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.
199. 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.
200. 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.

201. 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.
202. 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.
203. 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.
204. 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.
205. 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.
206. 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.
207. 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.
208. 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.
209. 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.
210. 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.

211. 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.
212. 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.
213. 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.
214. 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.
215. 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.
216. 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.
217. 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.
218. 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.
219. 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.
220. 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.
221. 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.

222. 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.
223. 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.
224. 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.
225. 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.
226. Zigler JE, Guyer RD, Ohnmeiss DD: Three-Level Total Disc Replacement. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
227. 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.
228. 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.
229. 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.
230. 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.
231. 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.
232. 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.

233. 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.
234. 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.
235. 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.
236. 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.
237. 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.
238. 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.
239. 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.
240. 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.
241. 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.
242. 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.
243. 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.
244. 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.

245. 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.
246. 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.
247. 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.
248. 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.
249. Ohnmeiss DD, Thongthangon 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.
250. 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.
251. 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.
252. 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.
253. 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.
254. 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.
255. 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.
256. 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.

257. 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 Technologies. July, 2012; Istanbul, Turkey.
258. 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.
259. 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.
260. 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.
261. 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.
262. 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. Spine Society of Australia. April, 2014; Brisbane, Australia.
263. Owusu A, Zigler JE, Ohnmeiss DD, Guyer RD: Pregnancy after Lumbar Total Disc Replacement. International Society for the Advancement of Spine Surgery. Spine Society of Australia. April, 2014; Brisbane, Australia.
264. 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.
265. Owusu A, Zigler JE, Ohnmeiss DD, Guyer RD: Pregnancy after Lumbar Total Disc Replacement. International Society for the Study of the Lumbar Spine. June, 2014; Seoul, Korea.
266. Biehn J, Shellock J, Ohnmeiss DD, Guyer RD, Zigler JE: Use of Amniotic Membrane Anti-adhesion Barrier for Lumbar Discectomy. International Society for the Study of the Lumbar Spine. June, 2014; Seoul, Korea.
267. Guyer RD, Baker R, Blumenthal SL, Zigler JE, Shivers J, Ohnmeiss DD, Verma-Kurvari S: Implementation of a Spine Surgery Quality Assurance Program in a Multi-Site Private Practice. International Society for the Study of the Lumbar Spine. June, 2014; Seoul, Korea.
268. Block A, Ohnmeiss DD, Guyer RD: A Brief Inventory to Assess Psychosocial Risk for Reduced Outcome of Spine Surgery. North American Spine Society. November, 2014; San Francisco, California.

269. Biehn J, Shellock J, Ohnmeiss DD, Guyer RD, Zigler JE: Use of Amniotic Membrane Anti-adhesion Barrier for Lumbar Discectomy. North American Spine Society. November, 2014; San Francisco, California.
270. Guyer RD, Rogers RW, Blumenthal SL, Ohnmeiss DD, Zigler JE: Clinical Outcomes Following Anterior Cervical Hybrid Surgery Using Total Disc Replacement Combined with Anterior Cervical Fusion at the Adjacent Segment. Spine Society of Australia. April, 2015; Canberra, Australia.
271. Ohnmeiss DD, Guyer RD, Zigler JE: Stability of Measures Assessing Clinical Outcome Following Anterior Cervical Spine Surgery. International Society for the Advancement of Spine Surgery. April, 2015; San Diego, California.
272. Happ C, Guyer RD, Ohnmeiss DD, Zigler JE: Stand-alone Interbody Devices in the Treatment of Cervical Spine Disease. International Society for the Advancement of Spine Surgery. April, 2015; San Diego, California.
273. Owusu A, Zigler JE, Ohnmeiss DD, Guyer RD: Pregnancy after Lumbar Total Disc Replacement. International Society for the Advancement of Spine Surgery. April, 2015; San Diego, California.
274. Otero-Lopez E, Guyer RD, Ohnmeiss DD, Zigler JE: Comparison of Clinical Outcomes for Anterior vs. 360 Fusion at the Fusion Level of Lumbar Hybrid Surgery. International Society for the Advancement of Spine Surgery. April, 2015; San Diego, California.
275. Happ C, Guyer RD, Ohnmeiss DD, Zigler JE: Stand-alone Interbody Devices in the Treatment of Cervical Spine Disease. Global Spine Congress. May, 2015; Buenos Aires, Argentina.
276. Hipp J, Guyer RD, Ohnmeiss DD, Zigler JE: Developing Normative Values for a Quantifiable, Clinically Applicable Method to Evaluate Lumbar Instability. International Society for the Study of the Lumbar Spine. June, 2015; San Francisco, California.
277. Hipp J, Guyer RD, Ohnmeiss DD, Zigler JE: A New Method Correlating an Objective Radiographic Metric for Lumbar Spine Stability and the Fluid Sign on MRI. International Society for the Study of the Lumbar Spine. June, 2015; San Francisco, California.
278. Guyer RD, Shivers J, Ohnmeiss DD, Zigler JE, Blumenthal SL: Results of a Complex Case Peer Review Program in a Private Practice Spine Specialty Clinic. International Society for the Study of the Lumbar Spine. June, 2015; San Francisco, California.
279. Otero-Lopez ER, Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Comparison of Clinical Outcomes for Anterior vs. 360 Fusion at the Fusion Level of Lumbar Hybrid (Total Disc Replacement / Fusion) Surgery. International Society for the Study of the Lumbar Spine. June, 2015; San Francisco, California.
280. Happ CM, Guyer RD, Blumenthal SL, Zigler JE, Ohnmeiss DD: Outcome after Anterior Cervical Fusion Using a Cervical Stand-alone Fusion Cage. Spine Across the Sea. July, 2015; Big Island, Kohala Coast, Hawaii.
281. Ohnmeiss DD, Zigler JE, Guyer RD, Blumenthal SL: Pregnancy after Lumbar Total Disc Replacement. North American Spine Society. October, 2015; Chicago, Illinois.



282. Ohnmeiss DD, Guyer RD, Zigler JE, Blumenthal SL: Stability of Clinical Outcome Measures Following Anterior Cervical Spine Surgery. Cervical Spine Research Society. December, 2015; San Diego, California.
283. 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. Cervical Spine Research Society. December, 2015; San Diego, California.
284. Guyer R, Abitbol J, Ohnmeiss D, Yao C: Evaluating the Osseointegration of a Deeply Porous Titanium Scaffold through Comparison with PEEK Implants and Allograft: Biomechanical Assessment Using a Porcine Skull Model. International Society for the Advancement of Spine Surgery. April, 2016; Las Vegas, Nevada.
285. Guyer RD, Putney E, Ohnmeiss DD, Zigler JE, Blumenthal SL: Analysis of Hospital Length of Stay Following Lumbar Anterior/Posterior Combined Fusion: Is There a Disadvantage Associated with Shorter Stays? International Society for the Study of the Lumbar Spine – SpineWeek. May, 2016; Singapore.
286. Zigler JE, Shivers J, Guyer RD, Ohnmeiss DD: Complications Associated with the Anterior Approach to the Lumbar Spine: Analysis of 2,881 Consecutive Cases during a 6-year Period. International Society for the Advancement of Spine Surgery – SpineWeek. May, 2016; Singapore.
287. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Re-operation after Lumbar Spine Surgery: Significant Variation in Rates Due to the Definitions Applied for Re-operation. North American Spine Society Summer Meeting. July, 2016; Miami, Florida.
288. Blumenthal SL, Otero-Lopez E, Guyer RD, Zigler JE, Ohnmeiss DD: Lumbar Hybrid Surgery with Total Disc Replacement at One Level and Fusion at the Adjacent Level: Does Fusion Type Impact Outcome? North American Spine Society. October, 2016; Boston, Massachusetts.
289. Sasso R, Smucker J, Blumenthal S, Guyer R, Zigler J: Early Experience with the M6-C Artificial Cervical Disc: A Report from Two IDE Investigational Centers Involved in a US FDA Approved IDE Study. International Society for the Advancement of Spine Surgery. April, 2017; Boca Raton, Florida.
290. Guyer R, Zigler J, Ohnmeiss D: Adjacent Segment Degeneration after Lumbar Total Disc Replacement: 5-year Results of a Multicenter, Prospective, Randomized Study with Independent Radiographic Assessment. International Society for the Advancement of Spine Surgery. April, 2017; Boca Raton, Florida.
291. Zigler J, Guyer R: Maintenance of Competence to Practice Spine Surgery: Do We Know How Many Cases Are Required? International Society for the Advancement of Spine Surgery. April, 2017; Boca Raton, Florida.
292. Zigler JE, Ohnmeiss DD: Ten-Year Follow-up of Patients Enrolled in the FDA-regulated Trial for Single-level Lumbar Total Disc Replacement: One Site's Experience. International Society for the Study of the Lumbar Spine. May-June, 2017; Athens, Greece.

293. Guyer RD, Ohnmeiss DD, Yoa C: Comparison of Abrasion and Osseointegration Associated with Titanium Plasma Spray Coated PEEK vs. Deeply Porous Titanium Scaffold on PEEK. International Society for the Study of the Lumbar Spine. May-June, 2017; Athens, Greece.