

Richard D. Guyer, M.D.

CURRICULUM VITAE

Office Address: Texas Back Institute
6020 West Parker Road, #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

MEDICAL LICENSURE

Texas - 1980 - F7477
Pennsylvania - 1976 - MD-018269-E
California - 1982-645442

BOARD CERTIFICATION

American Board of Orthopedic Surgery
September, 1981

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 Best 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
American Back Society
Texas Spine Society
International Society for the Study of the Lumbar Spine
 Nominating Committee
 Lifetime Achievement Committee
International Society for Minimal Intervention in Spinal Surgery
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
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*

Reviewer: *Clinical Orthopaedics and Related Research*

Editorial Board: *Chinese Journal of Bone and Joint*

COURSE CHAIRMAN

Co-Chairman, 3rd 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, Weinhoffer 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 Spinal 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.
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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.
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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.
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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 CHARITÉ 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, OhnmeissDD: 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.
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127. Guyer RD: Assessing the Damage: Diagnostic Imaging. Managing the Low Back “Train Wreck” Conference. November, 2002; Plano, Texas.
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166. Guyer RD: Surgical techniques and FDA data. International Symposium Non-Fusion techniques in Spinal Surgery. September, 2004; Milan, Italy.
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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.
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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.
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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.
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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.

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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.
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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.
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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.
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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.

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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.
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299. Guyer RD: Myths of Spine Surgery. Neuroscience Lecture Series. August, 2008; Plano, Texas.
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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.
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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.

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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.
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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.
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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.
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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, Laurysen 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, Lauryssen 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, Lauryssen 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, Lauryssen 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, Lauryssen 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.
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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.
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 556. Guyer RD: The Changing Landscape of ASCs: Cash Cow or Troubled Venture for Surgeons? State of Spine Surgery Think Tank. June, 2017; Los Cabos, Mexico.
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 560. Guyer R: Failure Mode of Different Cage Technologies & Materials - History and What We Learned. Spine Days. February, 2018; Berlin, Germany.
 561. Guyer RD, Ohnmeiss DD: Supine vs. Upright Weight Bearing MRI in the Evaluation of Patients with Lumbar Spondylolisthesis. International Society for the Advancement of Spine Surgery. April, 2018; Toronto, Canada.
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583. Guyer RD: History and Rationale of Total Disc Replacement. (Instructional Course Lecture: Current State of Total Disc Replacement). American Academy of Orthopaedic Surgeons. March, 2019; Las Vegas, Nevada.
584. Guyer RD: Indications for Lumbar TDR (Instructional Course Lecture: Current State of Total Disc Replacement). American Academy of Orthopaedic Surgeons. March, 2019; Las Vegas, Nevada.

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.
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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.
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