

Richard D. Guyer, M.D.

CURRICULUM VITAE

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

MEDICAL STAFF APPOINTMENTS

7/80 to 10/82	Hermann Hospital, Houston, Texas
1/81 to 10/82	Shrine Hospital, Houston, Texas
7/82 to present	HCA Medical Center of Plano, Plano, Texas
1/83 to present	Lutheran Medical Systems, Dallas, Texas
1/84 to present	Trinity Medical Center, Carrollton, Texas
1/85 to 12/85	Chief of Surgery, Trinity Medical Center, Carrollton, Texas
1/87 to 12/87	Chairman, Dept. of Orthopaedics, HCA Medical Center of Plano, Plano, Texas
3/87 to present	Medical City Hospital of Dallas, Dallas, Texas
1992 to present	Presbyterian Hospital of Plano, Plano, Texas
1999 to present	Vice-Chairman, Department of Orthopedics, Presbyterian Hospital of Plano, Plano, Texas
2002 to present	Baylor Medical Center at Frisco, Frisco, Texas
2005 to present	Texas Health Center for Diagnostic and Surgery; Plano, Texas

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
2009-10	Best Doctors in Dallas
2010	Best Doctors in the US

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

International Society for Minimal Intervention in Spinal Surgery

North American Spine Society:

Chairman, Diagnostic and Therapeutics Committee

Fellowship Committee

Japanese Spine Research Society: Spine Across the Sea: NASS program chairman

Board of Directors, Education Committee

Treasurer

First Vice President

President

Spine Arthroplasty Society:

Program Co-Chair

Program Committee

Fellowship Committee

American Academy of Orthopaedic Surgeons, Committee on HCFA Request for Evaluation of
Automated Percutaneous Lumbar Discectomy

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

International Society for the Advancement of Spine Surgery: Chairman, Membership Committee

EDITORIAL BOARD MEMBERSHIP

Associate Editorial Board, *The Spine Journal*

Associate Editorial Board, *Spine*

Peer Review Board: *The University of Pennsylvania Orthopaedic Journal*

Editorial Board Member: *International Journal of Spine Surgery (IJSS)*

Reviewer: *SAS Journal*

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

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 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, Tromanhauser SG, Regan JJ: An Economic Model of One-Level Lumbar Arthroplasty vs. Fusion. *Spine J* 7(5):558-62, 2007.
77. 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.
78. 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.
79. 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.
80. 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.
81. 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.
82. 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.
83. 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.
84. 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.

85. 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.
86. 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.
87. 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.
88. Dickerman RD, Reynolds A, Zigler J, Guyer R: [Letter] Adjacent Segment Degeneration. *J Neurosurg Spine* 10(2):177, 2009.
89. Guyer RD, Ohnmeiss DD: Advancements in Spinal Surgery. *US Musculoskeletal Review* 4:47-50, 2009.
90. 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.
91. 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.
92. 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.
93. 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. Accepted for publication in *Spine*.
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. Accepted for publication in *J Neurosurg Spine*.

CURRENTLY SUBMITTED FOR PUBLICATION

1. Cunningham BW, DeMuth G, McAfee PC, Scott-Young M, Yoon K, Blumenthal SL, Guyer RD, Geisler F, Regan JJ, 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. Submitted to *J Neurosurg Spine*.

2. Ohnmeiss DD, Atanasov AM, Rashbaum RF, Block AR, Mock L, Guyer RD: Results of Random Drug Testing in Chronic Back Pain Patients Managed with Pain Medication. Submitted to Spine J.
3. Rainey S, Blumenthal SL, Zigler JE, Guyer RD, Ohnmeiss DD: Analysis of Adjacent Segment Re-Operation Following Lumbar Total Disc Replacement. Submitted to SAS J.
4. Glenn JS, Yaker J, Guyer RD: Anterior Discectomy and Total Disc Replacement for Three Patients with Multiple Third and Fourth Recurrent Lumbar Disc Herniations. Submitted to Spine J.
5. Li B, Guyer RD, Zigler JE, Blumenthal SL, Ohnmeiss DD: Investigation of the Relationship between Pre-operative Disc Height, Post-operative Disc Height, and Clinical Outcome in Lumbar Total Disc Replacement Patients. Submitted to Spine J.

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.
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 - Brachial Plexus Injuries, January, 1978
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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.
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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.
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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.
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144. Guyer RD: Clinical Diagnostics for Spinal Motion Abnormality. *Dynamic Spine Stabilization*. November, 2003; Plano, Texas.
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146. Guyer RD: Principles of Dynamic Stabilization. *Non-Fusion Technology "A State of The Art Debate"*. December, 2003; New York, New York/Zurich, Switzerland.
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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.
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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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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.
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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.
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204. Guyer RD: The TOPS System. Non Fusion Technologies in Spinal Surgery. November, 2005; Brussels, Belgium.
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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.
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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.
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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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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.
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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.
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- Hypersensitivity: The Diagnostic and Treatment Approach in 4 Collected Cases. Lumbar Spine Research Society. April, 2009; Chicago, Illinois.
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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.
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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.
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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.
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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.
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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.

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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.
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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.
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