

Curriculum Vitae

Scott Lawrence Blumenthal, M.D.

Center for Disc Replacement at Texas Back Institute
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Plano, Texas 75093
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EDUCATION

1972-76 Beverly Hills High School, Beverly Hills, California
1976-78 Northwestern University, Evanston, Illinois, Bachelor of Science in Medicine
1978-82 Northwestern University Medical School, Doctor of Medicine

POSTGRADUATE EDUCATION

Fellowship, Physical Medicine and Rehabilitation
Rehabilitation Institute of Chicago, Chicago, Illinois,
January – June 1982

Internship, General Surgery
University of Texas Health Science Center, Dallas, Texas,
July 1982 - June 1983

Residency, Orthopedic Surgery
University of Texas Health Science Center, Dallas, Texas,
(Chief of Service: Vert Mooney, M.D.)
July 1983 – December 1987

Fellowship, Spinal Trauma
Midwest Regional Spinal Cord Injury Care System
Northwestern Memorial Hospital, Chicago, Illinois,
January – June 1987

MEDICAL PRACTICE

1992- Texas Back Institute; Plano, Texas
 Currently, Co-Director of the Center for Disc Replacement at Texas Back
 Institute

2000-2002 President, Medical Staff, Presbyterian Hospital of Plano; Plano, Texas

1993 Spine Consultant, Dallas Mavericks, National Basketball Association

- 1993 Spine Consultant, Dallas Texans, Arena Football League

 Wiltse Spine Institute, Long Beach, California
 Private spine surgery practice.
- 1988-1991 Southwest Orthopedic Institute, Dallas, Texas
 Private spine surgery practice

TEACHING APPOINTMENTS

University of Texas Southwestern Medical Center, Dallas, Texas,
Clinical Assistant Professor of Orthopedic Surgery
1988 – Present

Veterans Affairs Medical Center, Dallas, Texas,
Chief of Spine Service, Department of Orthopedics,
1990 – August 1991

HONORS

- 1976 Northwestern University, Honors Program in Medical Education
1979 Alpha Omega Alpha Honorary Medical Society
1982 Graduated with Distinction from Northwestern Medical School

BOARD CERTIFICATION

American Board of Orthopedic Surgery, July 1990

PROFESSIONAL ORGANIZATIONS

Collin County Medical Society
Texas Medical Association
American Academy of Orthopedic Surgeons
North American Spine Society
 Section Chair: Motion Preservation 2014 to 2017
International Society of the Study of the Lumbar Spine
 Central US Regional Representative 2008-2010
 Program Committee 2017-2018
 Program Co-Chair for the 2019 conference
 President 2021-22
 First Past President 2022-23 (Officer)
 Second Past President 2023-24 (Officer)
NBA Physicians, 2015
Texas Spine Society

International Society for the Advancement of Spine Surgery

Poster Program Committee 2008
Chairman, Education Committee 2012
Program Committee, 2019

JOURNAL POSITIONS

European Spine J: Deputy Editor (term ended 2023)

International Journal of Spine Surgery: Reviewer

PUBLICATIONS

1. Johnson K, Tencer AF, Blumenthal S, August A, Johnston DW: Biomechanical Performance of Locked Intramedullary Nail Systems in Comminuted Femoral Shaft Fractures. *Clin Orthop* 206:151-161, 1986.
2. Blumenthal SL, Roach J, Herring JA: Lumbar Scheuermann's: A Clinical Series and Classification. *Spine* 12(9):929-932, 1987.
3. Blumenthal SL, Baker J, Dossett A, Selby DK: The Role of Anterior Lumbar Fusion for Internal Disc Disruption. *Spine* 13(5):566-559, 1988.
4. Gill K, Blumenthal SL: Clinical Experience with Automated Percutaneous Discectomy: The Nucleotome® System. *Orthopedics* 14 (7) 757-760, 1991.
5. Gill K, Blumenthal SL: Functional Results After Anterior Lumbar Fusion at L5-S1 in Patients with Normal and Abnormal MRI Scans. *Spine* 17(8):940-94, 1992.
6. Blumenthal SL, Gill K: Can Lumbar Spine X-Rays Accurately Determine Fusion in Post-Operative Patients? *Spine* 18(9):18:1186-1189, 1993.
7. Gill K, Blumenthal SL: Automated Percutaneous Discectomy. Long-term Clinical Experience with the Nucleotome System. *Acta Orthop Scand Suppl* 251:30-33, 1993.
8. Blumenthal S, Gill K: Complications of the Wiltse Pedicle Screw Fixation System. *Spine* 18(13):1867-1871, 1993.
9. Gill K, Blumenthal SL: Posterior Lumbar Interbody Fusion. A 2-year Follow-up of 238 Patients. *Acta Orthop Scand Suppl* 251:108-110, 1993.
10. Blumenthal SL: Normal Magnetic Resonance Imaging and Abnormal Discography in Lumbar Disc Disruption. [Letter] *Spine* 20(1):120, 1995.
11. Ray CD, Blumenthal S, Klara P, Magana I, Gill K, Schonmayer R, Kim YS: Interbody Cages. [Letter] *J Neurosurg* 93(2 Suppl):338-340, 2000.
12. Hochschuler SH, Ohnmeiss DD, Guyer RD, Blumenthal SL: Artificial Disc: Preliminary Results of a Prospective Study in the United States. *Eur Spine J* 11(Suppl 2):S106-110, 2002.
13. 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.

14. Blumenthal, SL, Ohnmeiss DD: Contemporary Concepts in Spine Care: Intervertebral Cages for Degenerative Spinal Disease. *Spine J* 3(4):301-309, 2003.
15. 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.
16. Geisler FH, Blumenthal SL, Guyer RD, McAfee PC, Regan JJ, Johnson JP, Mullin B: Neurological Complications of Lumbar Artificial Disc Replacement and Comparison of Clinical Results with those Related to Lumbar Arthrodesis in the Literature: Results of a Multicenter, Prospective, Randomized Investigational Device Exemption Study of Charite Intervertebral Disc. *J Neurosurg Spine* 1(2):143-154, 2004.
17. 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.
18. 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.
19. McAfee PC, Cunningham B, Holsapple G, Bussard-Adams K, Blumenthal SL, Guyer RD, Dmitriev A, Maxwell J, Regan JJ, Isaza J: A Prospective, Randomized, Multi-Center FDA IDE Study of the Charité™ Artificial Disc: A Radiographic Outcomes Analysis, Correlation of Surgical Technique Accuracy with Clinical Outcomes, and Evaluation of the Learning Curve. *Spine* 30(14):1576-1583, 2005.
20. Blumenthal SL, Guyer RD: Indications, Contraindications, and Radiographic Evaluation. *Lumbar Spine Arthroplasty: Volume II*. Quality Medical Publishing. St. Louis, MO, 2005; pp. 3-16.
21. 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.
22. Blumenthal SL, Guyer RD, Cappuccino A: Discectomy. *Lumbar Spine Arthroplasty: Volume III*. Quality Medical Publishing. St. Louis, MO, 2005; pp. 17-39.
23. McAfee PC, Geisler FH, Siedy 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.
24. Blumenthal SL: Letter to the Editor [Response to Kurtz et al. Analysis of a Retrieved Polyethylene Total Disc Replacement Component.]. *Spine J* 6(1):98-99, 2006.
25. 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.
26. 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.
27. 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.
 28. 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.
 29. Cunningham BW, McAfee PC, Geisler FH, Holsapple G, Adams K, Blumenthal SL, Guyer RD, Cappuccino A, Regan JJ, Fedder IL, Tortolani PJ: Distribution of In Vivo and In Vitro Range of Motion Following 1-level Arthroplasty with the CHARITE Artificial Disc Compared with Fusion. J Neurosurg Spine 8(2):7-12, 2008.
 30. Geisler FH, Guyer RD, Blumenthal SL, McAfee PC, Cappuccino A, Bitan F, Regan JJ: Patient Selection for Lumbar Arthroplasty and Arthrodesis: The Effect of Revision Surgery in a Controlled, Multicenter, Randomized Study. J Neurosurg Spine 8(2):13-16, 2008.
 31. 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.
 32. 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.
 33. 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.
 34. 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.
 35. Guyer RD, McAfee PC, Banco RJ, Bitan FD, Cappuccino A, Geisler FH, Hochschuler SH, Holt RT, Jenis LG, Majd M, Regan JJ, Tromanhauser SG, Wong DC, Blumenthal SL: Prospective, Randomized, Multicenter Food and Drug Administration Investigational Device Exemption Study of Lumbar Total Disc Replacement with the CHARITE Artificial Disc Versus Lumbar Fusion: Five-Year Follow-up. Spine J 9(5):374-386, 2009.
 36. 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.
 37. Duffy MF, Shellock J, Blumenthal SL: Spinal Sports Injuries. US Musculoskeletal Review 37-42, 2009.

38. Rhyne AL, Blumenthal SL, Frank EH, Hsu KY, Kim KD, Youssef JA, Wang JC, Arnold P, Bendebba M, Block KM, Juarez TG, Chiacchierini RP, Ehmsen RJ, Krelle JS, Dizerega GS: Oxiplex Reduces Leg Pain, Back Pain and Associated Symptoms Following Lumbar Discectomy. *Spine* 37(8):631-641, 2012.
39. 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.
40. Bailey A, Araghi A, Blumenthal S, Huffmon GV: Prospective, Multi-Center, Randomized, Controlled Study of Anular Repair in Lumbar Discectomy: Two-Year Follow-Up. *Spine* 38(14):1161-1169, 2013.
41. 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.
42. Garcia R, Yue JJ, Blumenthal S, Coric D, Patel VV, Leary SP, Dinh DH, Buttermann GR, Deutsch H, Girardi F, Billys J, Miller LE: Lumbar Total Disc Replacement for Discogenic Low Back Pain: Two-year Outcomes of the activL Multicenter Randomized Controlled IDE Clinical Trial. *Spine* 40(24):1873-1881, 2015.
43. Blumenthal SL: 15 Years of Spine Arthroplasty in the United States: A Perspective. *SpineLine* May/June:12-14, 2015.
44. Blumenthal SL, Ohnmeiss DD: Does Surgery Have a Role in the Treatment of Patients with a Primary Complaint of Axial Low Back Pain? The Good, the Bad, and the Ugly. *SpineLine* May/June:24-28, 2016.
45. Nunley PD, Shamie N, Blumenthal SL, Orndorff D, Block JE, Geisler FH: Interspinous Process Decompression: Expanding Treatment Options for Lumbar Spinal Stenosis. *BioMed Research Int* 2016:3267307, 2016.
46. Blumenthal S, Buttermann G, Garcia R, Gornet M, Grunch B, Guyer R, Janssen M, Kimball B, Lewis A, Mesiwala A, Miller L, Morreale J, Reed W, Dandhu F, Shackelford I, Yue J, Zigler J, O’Connell B, Ferko N, Hollmann S: Foreword: Proceedings From the First Annual Lumbar Total Disc Replacement Summit. *Spine*; 42(Suppl 24):S99-S100, 2017.
47. Sandhu F, Blumenthal S, Grunch B, Kimball B, Ferko N, Hollmann S: Barriers to and Budget Impact of Lumbar Total Disc Replacement Utilization. *Spine* 42(Suppl 24):S112-S114, 2017.
48. Zigler JE, Blumenthal SL, Guyer RD, Ohnmeiss DD, Patel L: Relationship of Range of Motion and Adjacent Level Degeneration Following Lumbar Total Disc Replacement: Results of a Prospective Study with 5-year Follow-up. *Spine* 43(20):1395-1400, 2018.
49. Ahn J, Blumenthal SL, Derman PB: Physician-owned Hospitals in Orthopedic and Spine Surgery. *Ann Transl Med* 7(Suppl 5):162, 2019.
50. Yue JJ, Garcia R, Blumenthal S, Coric D, Patel VV, Dinh DH, Buttermann GR, Deutsch H, Miller LE, Persaud EJ, Ferko NC: Five-year Results of a Randomized Controlled Trial for Lumbar Artificial Discs in Single-level Degenerative Disc Disease. *Spine* 44(24):1685-1696, 2019.

51. Braxton E Jr., Wohlfeld BJ, Blumenthal S, Bozzio A, Buttermann G, Guyer R, Idema I, Laich D, Morreale J, Nikolakis M, Patel A, Price JS, Witt JP, Zigler J, Martin M: Postoperative Care Pathways Following Lumbar Total Disc Replacement: Results of a Modified Delphi Approach. *Spine* 44(Suppl 24):S1-S12, 2019.
52. Samartzis D, Blumenthal S, Fairbank J, Frazer RD, Gunzburg R, Luk KDK, Roberts S: John P. O'Brien: 2020 ISSLS Wiltse Lifetime Achievement Award. *Spine* 5:635-640, 2020.
53. Blumenthal SL: Expert's Comment Concerning Grand Rounds Case Entitled "Staged Surgical Treatment for Infection of Total Disc Arthroplasty: Three Cases and a Narrative Review of the Literature". *Eur Spine J* 29(7):1474-1475, 2020.
54. Blumenthal S, Diwan AD: Editorial. *Eur Spine J* 29(11):2629-2630, 2020.
55. Guyer RD, Ohnmeiss DD, Blumenthal SL, Zigler JE: In Which Cases Do Surgeons Specializing in Total Disc Replacement Perform Fusion in Patients with Cervical Spine Symptoms? *Eur Spine J* 29(11):2665-2669, 2020.
56. Zigler JE, Guyer RD, Blumenthal SL, Ohnmeiss DD: Analysis of Re-operations after Cervical Total Disc Replacement in a Consecutive Series of 535 Patients Receiving the ProDisc-C Device. *Eur Spine J* 29(11):2683-2687, 2020.
57. Phillips FM, Coric D, Sasso R, Lanman T, Lavelle W, Blumenthal S, Lauryssen C, Guyer R, Albert T, Zigler J, Cammisa F, Milam RA: Prospective, Multicenter Clinical Trial Comparing M6-C Compressible Six Degrees of Freedom Cervical Disc with Anterior Cervical Discectomy and Fusion for the Treatment of Single Level Degenerative Cervical Radiculopathy: Two- Year Results of an FDA Investigational Device Exemption Study. *Spine J* 21(2):239-252, 2021.
58. Samartzis D, Colloca C, Guyer R, Hu S, Nordin M, Blumenthal S: Robert Gunzburg and Marek Szpalski: 2022 ISSLS Wiltse Lifetime Achievement Award. *Spine* 47(11):E494-E498, 2022.
59. Zigler JE, Guyer RD, Blumenthal SL, Satin AM, Shellock JL, Ohnmeiss DD: In Which Cases Do Surgeons Specializing in Total Disc Replacement Perform Fusion in Patients with Symptomatic Lumbar Disc Degeneration? *Eur Spine J* 31(10):2607-2611, 2022.
60. Iyer S, Bovonratwet P, Samartzis D, Schoenfeld AJ, An HS, Awwad W, Blumenthal SL, Cheung JPY, Derman PB, El-Sharkawi M, Freedman BA, Hartl R, Kang JD, Kim HJ, Louie PK, Ludwig SC, Neva MH, Pham MH, Phillips FM, Qureshi SA, Radcliff KE, Riew KD, Sandhu HS, Sciubba DM, Sethi RK, Valacco M, Zaidi HA, Zygourakis CC, Makhni MC: Appropriate Telemedicine Utilization in Spine Surgery: Results from a Delphi Study. *Spine* 47(8):583-590, 2022.
61. Guyer RD, Zigler JE, Blumenthal SL, Shellock JL, Ohnmeiss DD: Evaluation of Anterior Lumbar Interbody Fusion Performed Using a Stand-alone, Integrated Fusion Cage. *Int J Spine Surg* 17(1):1-5, 2023.
62. Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Impact of Previous Lumbar Spine Surgery on the Outcome of Lumbar Total Disc Replacement: Analysis of Prospective 5-year Follow-up Study Data. *Eur Spine J*. 32(3):797-802, 2023.

63. Satin AM, Rogers-LaVanne MP, Guyer RD, Zigler JE, Blumenthal SL, Shellock JL, Ohnmeiss DD, Derman PB: Letter to the editor regarding, "Long-term Results of the NECK Trial-Implanting a Disc Prosthesis After Cervical Anterior Discectomy Cannot Prevent Adjacent Segment Disease: Five-Year Clinical Follow-Up of a Double-Blinded Randomised Controlled Trial" by Goedmakers et al. *Spine J* 24(2):387-388, 2024.
64. Guyer RD, Blumenthal SL, Shellock JL, Zigler JE, Ohnmeiss DD: Lumbar Total Disc Replacement Device Removals and Revisions Performed During a 20 Year Experience with 2,141 Patients. *Spine* 49(10):671-676, 2024.
65. Blumenthal SL, Edionwe J, Courtois EC, Guyer RD, Satin AM, Ohnmeiss DD: Is the Use of Intra-operative Neuromonitoring Justified during Lumbar Anterior Approach Surgery? *Int J Spine Surg* 18(2):217-221, 2024.
66. Blumenthal SL, Ohnmeiss DD: The Scientific Evidence for Lumbar Total Disc Replacement Surgery. *Indian Spine J* 7(2):142-147, 2024.
67. Blumenthal SL, Ohnmeiss DD, Courtois EC, Guyer RD, Zigler JE, Shellock JL: Treatment of Failed Cervical Total Disc Replacements in a Series of 53 Cases and Description of a Management Strategy. *Eur Spine J* 33(8):3117-3123, 2024.
68. Blumenthal SL, Griffin CW, Courtois EC, Guyer RD, Zigler JE, Shellock JL, Ohnmeiss DD: Removals and Revisions of Cervical Total Disc Replacement Devices in a Consecutive Series of 1,626 Patients Beginning with the First Case Experience in 2003. *Spine* 49(19):1348-1351, 2024.
69. Shellock JL, Zigler JE, Blumenthal SL, Guyer RD, Ohnmeiss DD: Clinical Outcome of Lumbar Hybrid Surgery in a Consecutive Series of Patients with Long-term Follow-up. *Spine* 50(2):110-114, 2025.
70. Satin AM, Shenker T, Guyer RD, Blumenthal SL, Zigler JE, Shellock JL, Derman PB, Ohnmeiss DD, Rogers-LaVanne MP: Cervical Total Disc Replacement for the Treatment of Adjacent Segment Disease after Anterior Cervical Discectomy and Fusion. *Spine* 50(4):243-251, 2025.

CURRENTLY SUBMITTED FOR PUBLICATION

1. Fisher KJ, Blumenthal SL, Guyer RD, Zigler JE, Shellock JL, Ohnmeiss DD: Intraoperative Conversion of Primary Cervical Total Disc Replacement to Fusion: Incidence and Reasons. Submitted to *Spine*.

BOOK CHAPTERS

1. Selby DK, Blumenthal SL: *Anterior Lumbar Fusion*. *Lumbar Spine Surgery Techniques and Complications*. 1987; p 385.
2. Selby DK, Henderson RJ, Blumenthal SL, Dossett D. *Anterior Lumbar Fusion*. *Lumbar Spine Surgery Indications, Techniques, Failures and Alternatives*. 1988; p. 248.

3. Guyer RD, Blumenthal SL: *Preliminary United States Experience with the SB Charité III Artificial Discs*. In: Büttner-Janz K, Hochschuler SH, McAfee PC (eds): The Artificial Disc. Springer-Verlag, Berlin, Germany, 2003, pp. 139-145.
4. Blumenthal SL, Ohnmeiss DD: *Degenerative Disc Disease: Complications of Surgery*. In: Herkowitz H (ed): The Lumbar Spine, 3rd Edition. Lippincott Williams & Wilkins, Philadelphia, PA, 2004, pp 360-372.
5. Ohnmeiss DD, Blumenthal SL: *Evolution in the Treatment of Lumbar Disc-Related Pain*. In: Guyer RD, Zigler JE (eds): Spinal Arthroplasty: A New Era in Spine Care. Quality Medical Publishers, St. Louis, MO. 2005; pp 3-24.
6. Blumenthal SL, Mataragas NR, Moore S: *Lumbar Spine - Anterior Anatomy and Surgical Approach*. In Herkowitz H et al. (eds) The Spine 5th Edition, Elsevier, London; 2007.
7. Blumenthal SL, Ohnmeiss DD: *Charite Artificial Disc*. In Yue, Bertagnoli R, McAfee PC, An H (eds): Motion Preservation Surgery of the Spine: Advanced Techniques and Controversies. Elsevier, Philadelphia, PA; 2007.
8. Blumenthal SL, Geisler F, Roush T, Ohnmeiss DD: *Simultaneous Lumbar Fusion and TDR*. In Yue, Bertagnoli R, McAfee PC, An H (eds): Motion Preservation Surgery of the Spine: Advanced Techniques and Controversies. Elsevier, Philadelphia, PA; 2007.
9. Singh K, Yakel DM, Wojewnik B, Ohnmeiss DD, Vaccaro A, Blumenthal SL: *Lumbar Spine Arthroplasty: Charité Total Disk Replacement*. In: Vaccaro A, Baron EM (eds): Operative Techniques: Spine Surgery. Saunders Elsevier, Philadelphia, Pennsylvania; 2008; pp. 409-428.
10. Blumenthal SL, Ohnmeiss DD: *Charite Artificial Disc*. In: Yue JJ, Bertagnoli R, McAfee PC, An HS (eds): Motion Preservation Surgery of the Spine: Advanced Techniques and Controversies. Saunders Elsevier, Philadelphia, Pennsylvania; 2008; pp 309-317.
11. Blumenthal SL, Geisler F, Roush T, Ohnmeiss DD: *Simultaneous Lumbar Fusion and Total Disc Replacement*. In: Yue JJ, Bertagnoli R, McAfee PC, An HS (eds): Motion Preservation Surgery of the Spine: Advanced Techniques and Controversies. Saunders Elsevier, Philadelphia, Pennsylvania; 2008; pp 617-619.
12. Blumenthal SL: *Lumbar Spinal Arthroplasty*. In: Vaccaro A, Albert T (eds): Spine Surgery: Tricks of the Trade 2nd Edition. Thieme, New York, New York; 2009; pp. 297-300.
13. Singh K, Yakel DM, Wojewnik B, Ohnmeiss DD, Vaccaro A, Blumenthal SL: *Lumbar Spine Arthroplasty: Charité Total Disk Replacement*. In: Vaccaro A, Baron EM (eds): Operative Techniques: Spine Surgery. Saunders Elsevier, Philadelphia, Pennsylvania; 2008; pp 409-428.
14. Blumenthal SL, Ohnmeiss DD: *Dural and Neural Injury*. In: Phillips FM, Lieberman IH, Polly DW Jr. (eds): Minimally Invasive Spine Surgery: Surgical Techniques and Disease Management. Springer, New York, New York, 2014; pp. 445-452.
15. Blumenthal SL, Biehn J: *Lumbar Spinal Arthroplasty*. In: Vaccaro AR, Albert TJ (eds): Spine Surgery: Tricks of the Trade, 3rd edition. Thieme Medical Publishers, Inc., New York, New York, 2016; pp. 394-396.

16. Hancock SL, Blumenthal SL, Ohnmeiss DD: *Dural and Neural Injury*. In: Phillips FM, Lieberman IH, Polly DW Jr. (eds): Minimally Invasive Spine Surgery: Surgical Techniques and Disease Management, 2nd Edition. Springer Nature Switzerland AG; Cham, Switzerland, 2019; pp. 665-678.
17. Molina D, IV, Blumenthal SL: *Lumbosacral Spine – Plain Radiographs*. In: Louie PK, An HS, Samartzis D (eds): Atlas of Spinal Imaging Phenotypes: Classifications and Radiographic Measurements. Elsevier Publishing, Amsterdam, Netherlands. 2022; pp: 173-182.
18. Derman PB, Zigler J, Guyer R, Blumenthal S, Lieberman IH: *Lumbar Disc Arthroplasty*. In: Winn HR, ed. Youmans and Winn Neurological Surgery 8th ed. Philadelphia, PA: Elsevier; 2022; pp. 2788-2793.
19. Blumenthal SL, Courtois EC, Ohnmeiss DD: *Revision of Cervical Disc Arthroplasty*. In: Benzel EC, Berven SH, Steinmetz M (eds): Benzel's Spine Surgery, 6th Edition. Elsevier, Philadelphia, Pennsylvania, in press.

PRESENTATIONS

1. Blumenthal SL: Biomechanics of Interlocking Nails. Orthopaedic Trauma Hospital Association. October, 1983; Houston, Texas.
2. Blumenthal SL: Biomechanics of Interlocking Nails. AOA Residents Conference. May 1984; Ann Arbor, Michigan.
3. Blumenthal SL: A Prospective Comparative Study of Chymopapain versus Collagenase for the Treatment of Ruptured Lumbar Disc. AOA Residents Conference. May, 1985; New Orleans, Louisiana.
4. The Role of Anterior Fusion for Internal Disc Disruption. International Society for the Study of the Lumbar Spine. May-June, 1986; Dallas, Texas.
5. Lumbar Scheuermann's: A Clinical Series and Classification. Scoliosis Research Society. September, 1986; Bermuda.
6. The Preoperative Evaluation Program and The Dallas Pain Questionnaire. International Society for the Study of the Lumbar Spine, 1989; Kyoto, Japan.
7. Blumenthal SL: Automated Percutaneous Lumbar Discectomy Workshop:
 - i. San Antonio, Texas, January 7-8, 1989.
 - ii. Dallas, Texas, April 8-9, 1989.
 - iii. Chicago, Illinois, July 29-30, 1989.
8. Blumenthal SL: Non-Osseous Cervical and Lumbar Trauma, Diagnosis and Management. St. Paul "Practice Update 89" December, 1989.
9. Functional Results after Anterior Lumbar Fusion in with Normal and Abnormal MRI Scans. International Society for the Study of the Lumbar Spine. June, 1990; Boston, Massachusetts.
10. Symptoms and Pathogenesis of Herniated Lumbar Discs. Automated Percutaneous Lumbar Discectomy Workshop. December, 1990; Orlando, Florida.

11. Clinical Radiology of the Lumbar Disc” American Academy of Orthopaedic Surgeons. Anaheim, California, March 1991.
12. Blumenthal SL: Clinical Results of Automated Percutaneous Lumbar Discectomy. Nucleotome Workshop. April, 1991; Chicago, Illinois.
13. Early Results of the Wiltse Pedicular Instrumentation System for the Treatment of Unstable Thoracolumbar Fractures. American Spinal Injury Association. April, 1991; Seattle, Washington.
14. Epidural Compression Secondary to an Organized Hematoma in Neurologically Intact Patient with a Lumbar Spine Fracture: Is This Clinically Significant? American Spinal Injury Association. Seattle, Washington, April 1991.
15. Blumenthal SL: The Art of Preparing for and Taking Oral Examinations: “Cervical Spine”. Southwest Orthopaedic Surgery Review. April, 1989; Dallas, Texas.
16. Blumenthal SL, Gill K: Can Lumbar Spine X-rays Accurately Determine Fusion in Post-Operative Patients? Correlation of Routine Radiographs with a Second Surgical Look in Fusion. International Society for the Study of the Lumbar Spine. May, 1991; Heidelberg, Germany.
17. Blumenthal SL, Gill K: Complications of Pedicle Screw Fixation. North American Spine Society. July-August, 1991; Keystone, Colorado.
18. Blumenthal SL, Gill K: Can Lumbar Spine X-rays Accurately Determine Fusion in Post-Operative Patients? Correlation of Routine radiographs with a Second Surgical Look in Lumbar Fusions. North American Spine Society. July - August, 1991; Keystone, Colorado.
19. Blumenthal SL, Gill K: Complication of Wiltse Pedicle Screw Fixation System. American Academy of Orthopaedic Surgeons. Wiltse Pedicle Screw Fixation System Workshop. February, 1992; Washington D.C.
20. Clinical Results of APLD. American Academy of Orthopaedic Surgeons. Automated Percutaneous Lumbar Discectomy Workshop. February, 1992; Washington D.C.
21. Long Term Results with Automated Percutaneous Lumbar Discectomy. American Academy of Orthopaedic Surgeons. Issues in Contemporary Spine. February, 1992; Washington D.C.
22. New Application of the Wiltse System to the Cervical Spine. American Academy of Orthopaedic Surgeons. February, 1992; Washington D.C.
23. Blumenthal SL: Complication of Pedicle Screw Fixation. Los Angeles Chapter of Western Orthopedic Association. March, 1992; LaQuinta, California.
24. Blumenthal SL: Pedicle Fixation of the Lumbar Spine. Scoliosis Research Society and North American Spine Society. April -May, 1992; Phoenix, Arizona.
25. Blumenthal SL: Segmental Instability. Kaiser Permanente Symposium, May, 1992.
26. The Relationship between Hoffmann’s Ligaments, Batson’s Plexus and a Fibrous Membrane Lying between the Posterior Surface of the Vertebral Bodies and the Posterior

- Longitudinal Ligament: An Anatomical, Radiological and Clinical Correlation. North American Spine Society. July, 1992; Boston, Massachusetts.
27. Blumenthal SL: Bone Grafting Choices, Techniques, and Substances. USC University Hospital. October, 1992; Los Angeles, California.
 28. Blumenthal SL: Use of Lateral Mass Plates. USC University Hospital. October, 1992; Los Angeles, California.
 29. Blumenthal SL: (Faculty) Automated Percutaneous Lumbar Discectomy Workshop. Johannesburg, South Africa, April 26, 1993.
 - i. Cape Town, South Africa, April 28, 1993.
 - ii. Durban, South Africa, April 29, 1993.
 - iii. Beijing, China, August, 1994.
 - iv. Kuala Lumpur, Malaysia, August 1994.
 30. Blumenthal SL: Wiltse Pedicle Screw Fixation System Demonstration. May, 1993; Orlando, Florida.
 31. Blumenthal SL: Low Back Pain in the 90's. Back Solutions Seminar. May, 1993; Dallas, Texas.
 32. Blumenthal SL: Clinical Results of Endoscopic Lumbar Discectomy. Endoscopic Lumbar Discectomy Workshop.
 - i. December, 1993; West Palm Beach, Florida.
 - ii. Kansas City, Missouri, February 5, 1994.
 - iii. New Orleans Louisiana, February 23, 1994.
 - iv. Houston, April 23, 1994.
 33. Blumenthal SL: Evaluation of Lumbar Spine Surgery in Professional Basketball Players. SEC Sports Medicine Symposium. March, 1994; Memphis, Tennessee.
 34. Blumenthal SL, Souryal TO, Atkinson D: Evaluation of Lumbar Spine Surgery in Professional Basketball Players. American College of Sports Medicine. June, 1994; Indianapolis, Indiana.
 35. Blumenthal SL: Demonstration of the Endoflex System for minimally invasive spinal surgery. August, 1994; Hong Kong.
 36. Blumenthal SL: Steerable Endoscopic Discectomy Workshop. Rush Presbyterian – St. Lukes Medical Center. September, 1994; Chicago, Illinois.
 37. Blumenthal SL: New Advances in Minimally Invasive Spinal Surgery. January, 1995; Napa Valley California.
 38. Blumenthal SL: Percutaneous Surgery vs. Laparoscopy. February, 1995; Dallas Texas.
 39. Blumenthal SL, Regan JJ, Guyer RD, Novotny S, Ohnmeiss DD: Laparoscopic Assisted Anterior Lumbar Interbody Fusion. International Society for the Study of the Lumbar Spine. June, 1995; Helsinki, Finland.
 40. Blumenthal SL: Recent Advances and Results of the Wiltse System: New Techniques for Lumbar Spine Procedures. Combined Meeting of Spine Society of Australia and Neurological Society of Australasia. September, 1995; Broome, Australia.

41. Blumenthal SL: New Techniques for Lumbar Spine Procedures. Combined Meeting of Spine Society of Australia and Neurological Society of Australia. September, 1995; Broome, Australia.
42. Blumenthal SL: Indications and Contraindications to Steerable Endoscopic Microdiscectomy. Cedars-Sinai Medical Center's CME Conference, Los Angeles, California, November, 1995.
43. Blumenthal SL: Steerable Endoscopic Discectomy Workshop. Georgia Baptist Health Care Systems and Georgia Back Institute, Atlanta, Georgia, February 21, 1996.
44. Blumenthal SL: Videoscopic Anterior Approaches to Thoracic and Lumbar Spine Surgery. University of Cincinnati Medical Center. May, 1996; Cincinnati, Ohio.
45. Blumenthal SL: Laparoscopic Assisted Anterior Lumbar Interbody Fusion Workshop. September, 1996; Queensland, Australia.
46. Blumenthal SL: Endoscopic Spinal Surgery Workshop. Spine Society of Australia. September, 1996; Brisbane, Australia.
47. Blumenthal SL: Endoscopic Surgery Interbody Fusion. Singapore Orthopaedic Association. November, 1996; Singapore.
48. Blumenthal SL: Ray Threaded Fusion Cage Surgical Technique Training Workshop sponsored by Surgical Dynamics:
 - Tampa, Florida, January 4, 1997.
 - Chicago, Illinois, January 25, 1997.
 - Phoenix, Arizona, February 1, 1997.
 - San Francisco, California, Feb. 4, 1997.
 - Chicago, Illinois, March 12, 1997.
 - Kamuela, Hawaii, March 16-20, 1997.
 - Plano, Texas, April 15, 1997.
 - Australia, May 1997.
 - San Antonio, Texas, July 26, 1997.
 - New York, New York, August 2, 1997.
 - Charlotte, North Carolina, Sept. 13, 1997
 - Minneapolis, Minnesota, Sept. 20, 1997.
 - Arlington, Texas, November 15, 1997.
 - Chicago, Illinois, December 13, 1997.
 - Memphis, Tennessee, January 24, 1998.
 - Scottsdale, Arizona, February 21, 1998.
 - New Orleans, Louisiana, March 20, 1998.
 - Washington D.C., March 28, 1998.
 - Seattle, Washington, September 12, 1998.
 - San Francisco, California, Sept. 19, 1998.
 - Atlanta, Georgia, November 7, 1998.
49. Massoud B, Ohnmeiss DD, Rinn C, Guyer RD, Hochschuler SH, Rashbaum RF, Blumenthal SL, Zigler JE, Regan JJ, Fulp T: Results of Hardware Removal in the Lumbar Spine and the Role of Diagnostic Hardware Injection. Dialogue and Controversy in Spinal Surgery. April, 1998; Stove Mountain, Georgia.
50. Blumenthal SL: Cirugia de Minima Invasion. Sociedad Argentina De Patologia De La Columna Vertebral. October, 1998; Mar del Plata, Argentina.
51. Blumenthal SL: PLIF vs. ALIF... Patient Selection Criteria. Ray TFC Advanced Symposium, sponsored by Surgical Dynamics. December, 1998; Scottsdale, Arizona.
52. Blumenthal SL: Cautions of Interbody Fusions with Cages. Ray TFC Advanced Symposium, sponsored by Surgical Dynamics. December, 1998; Scottsdale, Arizona.

53. Blumenthal SL: Surgical Decision Making: Mini Anterior vs. Laparoscopic vs. Posterior Approaches. Minimally Invasive Spine Surgery, American Academy of Orthopaedic Surgeons. April, 1999; St. Louis, Missouri.
54. Simpson NS, Blumenthal SL, Guyer RD, Ohnmeiss DD, Risk DE: Anterior Lumbar Interbody Fusion with Threaded Fusion Cages: Technique, Feasibility, and Safety. American Spinal Injury Association. April, 1999; Atlanta, Georgia.
55. Blumenthal SL: Surgical Dynamics Rod System. Sponsored by Surgical Dynamics. April, 1999; Jackson, Mississippi.
56. Blumenthal SL: Minimally Invasive Technologies. Sponsored by Texas Health Research Institute. May, 1999; Dallas, Texas
57. Blumenthal SL: Surgical Decision-Making: Mini Anterior vs. Laparoscopic vs. Posterior Approaches. (Symposium: Fusion Cages: Are They Stand Alone Devices?) North American Spine Society. October, 1999; Chicago, Illinois.
58. Blumenthal SL: Surgical Decision-Making: Mini Anterior vs. Laparoscopic vs. Posterior Approaches. Symposium on Fusion Cages: Are They Stand Alone Devices? North American Spine Society. October, 1999. Chicago, Illinois.
59. Blumenthal SL: Clinical Experience with Fusion Cages in a Large Population with Discogenic Pain. (Symposium: Lumbar Discogenic Disease). American Academy of Orthopaedic Surgeons. March, 2000; Orlando, Florida.
60. Regan JJ, Ohnmeiss DD, Hochschuler SH, Blumenthal SL, Guyer RD: Comparison of Laparoscopic to Mini-Open Fusion at the L4-5 Level. North American Spine Society. October, 2000; New Orleans, Louisiana.
61. Blumenthal SL, McAfee PC, Hochschuler SH, Guyer RD, Fedder I, Ohnmeiss DD: Prospective Evaluation of the SB Charité III Disc Prosthesis. Spine Society of Australia. April, 2001; Australia.
62. Burton DC, Ohnmeiss DD, Zigler JE, Blumenthal SL, Rashbaum RF, Guyer RD, Regan JJ: Anterior Cervical Discectomy and Fusion with Allograft Bone and Plate Fixation. American Spinal Injury Association. May, 2001; Long Beach, California.
63. Hisey MS, Bash J, Ohnmeiss DD, Zigler JE, Guyer RD, Blumenthal SL, Regan JJ, Hochschuler SH, Rashbaum RF: Is There an Association Between Using ADCON-L™ and the Incidence of Recurrent Disc Herniation? American Spinal Injury Association. May, 2001; Long Beach, California
64. Blumenthal SL: Artificial Discs and Beyond. (Moderator and Organizer of this Symposium). North American Spine Society, November, 2001; Seattle, Washington.
65. Blumenthal SL: Artificial Discs. Grand Rounds; 2002; Boston, Massachusetts.
66. Blumenthal SL, Guyer RD, Hochschuler SH, Ohnmeiss DD: Preliminary Results of a Prospective Study Using the SB Charité III Disc Prosthesis. Spine Society of Australia. April, 2002; Melbourne, Australia.

67. Ohnmeiss DD, Guyer RD, Hochschuler SH, Rashbaum RF, Blumenthal SL, Zigler JE: Influence of Scan Projection on the Diagnosis of Osteoporosis in a Low Back Pain Population. Meeting of the Americas. April, 2002; New York, New York.
68. Henry S, Ohnmeiss DD, Guyer RD, Zigler JE, Chang Y, Rashbaum RF, Blumenthal SL: Outcome of Anterior Cervical Fusion For Discographically Proven Pain. Meeting of the Americas. April, 2002; New York, New York.
69. Blumenthal SL: Artificial Disc Update. Texas Spine Society. April, 2003; Austin, Texas.
70. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: US Experience with the SB Charité Artificial Disc. Spinal Arthroplasty Society. May, 2002; Montpellier, France.
71. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: Prospective outcome evaluation of a Total Disc Replacement. Spine Society of Australia. April, 2003; Canberra, Australia.
72. Blumenthal SL: Results of Charité: FDA – Preliminary. Spinal Arthroplasty Society. May, 2003; Phoenix, Arizona.
73. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: Prospective Outcome Evaluation of a Total Disc Replacement. Spine Across the Sea. July, 2003; Maui, Hawaii.
74. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: Preliminary Experience with the SB Charité III Disc Prosthesis. World Spine. August 2003; Chicago, Illinois.
75. Guyer RD, Hochschuler SH, Ohnmeiss DD, Blumenthal SL: Prospective Outcome Evaluation of Total Disc Replacement: A 12- to 24-Month Follow-Up Study. North American Spine Society. October, 2003; San Diego, California.
76. Blumenthal SL: Lumbar Fusions: Instrumentation and Techniques. Blackstone Workshop at EuroSpine. October, 2003; Prague, Czechoslovakia.
77. Blumenthal SL: Cervical Fusions and Instrumentation: Anterior Cervical Plating and a New Posterior Occipital-Cervical-Thoracic System. Blackstone Workshop at EuroSpine. October, 2003; Prague, Czechoslovakia.
78. Blumenthal SL: Biomechanics of the Charité Artificial Disc. Dynamic Spine Stabilization. November, 2003; Plano, Texas.
79. Blumenthal SL: Preliminary Results of the Prospective Randomized FDA Study Comparing Fusion versus SB Charité Total Disc Arthroplasty. Non-Fusion Technology “A State of The Art Debate”. December, 2003; New York, New York/Zurich, Switzerland.
80. Blumenthal SL: Debate about the Conversion Process from Fusion to Total Disc Arthroplasty. Non-Fusion Technology “A State of The Art Debate”. December, 2003; New York, New York/Zurich, Switzerland.
81. Blumenthal SL: Surgical Video – Charité. North American Spine Society Pre-course. October, 2003; San Diego, California.
82. Guyer RD, Hochschuler SH, Blumenthal SL, Ohnmeiss DD: Prospective Outcome Evaluation of Total Disc Replacement. American Academy of Orthopaedic Surgeons. March, 2004; San Francisco, California.

83. Blumenthal SL. Randomized Control Trial of the Charite Artificial Disc vs. Fusion for Single Level Lumbar Degenerative Disc Disease: A Two-Year Follow-up Study. North American Spine Society Spring Break. April, 2004; Boca Raton, Florida.
84. McAfee PC, Cunningham BW, Holsapple G, Bussard K, Guyer R, Blumenthal S, Dmitriev A, Maxwell JH, Isaza J, Regan J: A Prospective Randomized U.S. FDA Study of the Charité Disc Replacement – A Radiographic Outcome Analysis of 276 Consecutive Patients. Spine Society of Australia. April, 2004; Coolum, Australia.
85. Blumenthal S, McAfee P, Guyer R, Hochschuler S, Garcia R, Regan J, Ohnmeiss D: Randomized Control Trial of the Charité Artificial Disc vs. Fusion for Single Level Lumbar Degenerative Disc Disease: A Two-Year Follow-up Study. Spinal Arthroplasty Society. May, 2004; Vienna, Austria.
86. Blumenthal SL., Sohn JM, Guyer RD, Hochschuler SH, Ohnmeiss DD: Range of Motion Analysis of the Lumbar Spine after Total Disc Replacement: A Prospective Two-Year Follow-Up Study. Spinal Arthroplasty Society. May, 2004; Vienna, Austria.
87. Hochschuler SH, Whitaker C, Zigler JE, Guyer RD, Sachs BL, Blumenthal SL, Rashbaum RF, Ohnmeiss DD: Comparison of Return to Work Following Total Disc Arthroplasty vs. Fusion: A Prospective, Randomized Study. Spinal Arthroplasty Society. May, 2004; Vienna, Austria.
88. Sachs BL, Gottlieb J, Guyer RD, Zigler JE, Rashbaum RF, Hochschuler SH, Blumenthal SL, Whitaker C, Ohnmeiss DD: Comparison of Complications Associated with Total Disc Replacement versus Lumbar Fusion at Two-year Follow-Up. Spinal Arthroplasty Society. May, 2004; Vienna, Austria.
89. McAfee PC, Cunningham BW, Holsapple G, Bussard K, Guyer R, Blumenthal S, Dmitriev A, Maxwell JH, Isaza J, Regan J: A Prospective Randomized U.S. FDA Study of the Charité Disc Replacement – A Radiographic Outcome Analysis of 276 Consecutive Patients. International Society for the Study of the Lumbar Spine. June, 2004; Porto, Portugal.
90. Geisler FH, Blumenthal SL, McAfee PC, Guyer RD, Hochschuler SH, Garcia R, Regan JJ: Prospective, Randomized, Multicenter Trial of Artificial Disc vs. Fusion for Single Level Lumbar Degenerative Disc Disease: A 2-Year Follow-up IDE Study. Congress of Neurological Surgeons. October, 2004; San Francisco, California.
91. Blumenthal S, McAfee P, Guyer R, Hochschuler S, Garcia R, Regan J, Ohnmeiss D: Prospective, Randomized, Multicenter Comparison of Artificial Disc vs. Fusion for Single Level Lumbar Degenerative Disc Disease: A Two-Year Follow-up Study. North American Spine Society. October, 2004; Chicago, Illinois.
92. McAfee P, Cunningham BW, Holsapple G, Bussard K, Guyer R, Blumenthal S, Dmitriev A, Maxwell J, Isaza J, Regan J: A Prospective Randomized FDA Study of the Charite Disc Replacement – A Radiographic Outcome Analysis of 276 Consecutive Patients. North American Spine Society. October, 2004; Chicago, Illinois.
93. Blumenthal SL: Results of TDA: The Combined Charite FDA Results. Elevating Best Practice in Spine: New Technology in the Surgical Treatment of Spine Pain. November, 2004.

94. Blumenthal SL: Indications Complications in the Charite FDA Experience. Elevating Best Practice in Spine: New Technology in the Surgical Treatment of Spine Pain. November, 2004.
95. Blumenthal SL: Osteobiologics: A US Perspective. Elevating Best Practice in Spine: New Technology in the Surgical Treatment of Spine Pain. November, 2004.
96. McAfee PC, Cunningham BW, Blumenthal SL, Guyer RD, Regan JJ: A Prospective Randomized FDA Study of the Charite Disc Replacement. February, 2005; Washington, D.C.
97. Blumenthal SL: X-STOP IPD Update. North American Spine Society Spring Break. April, 2005; Bal Harbour, Florida.
98. Blumenthal SL: Rationale for Lumbar Motion Preservation. North American Spine Society Spring Break. April, 2005; Bal Harbour, Florida.
99. Blumenthal SL: X-STOP IPD Interspinous Process Device. Live Instructional Non-Fusion Spine Course. May, 2005; New York, New York.
100. Blumenthal SL: Charite. Texas Spine Society. April, 2005; Austin, Texas.
101. Elders GJ, Blumenthal SL, Guyer RD, Hochschuler SH, Rashbaum RF, Sachs BL, Zigler JE, Ohnmeiss DD: Effect of Facet Joint Arthrosis on Outcome after Artificial Disc Replacement. Spinal Arthroplasty Society. May, 2005; New York, New York.
102. Holt R, Majd M, Isaza J, Blumenthal S, McAfee P, Guyer R, Hochschuler S, Geisler F, Garcia R, Regan J: Complications of Lumbar Artificial Disc Replacement vs. Fusion: Results from the Randomized, Multicenter FDA IDE Study of the CHARITÉ Artificial Disc. Spinal Arthroplasty Society. May, 2005; New York, New York.
103. Regan JJ, McAfee PC, Guyer RD, Blumenthal SL, Geisler FH, Garcia R Jr., Maxwell JH: Evaluation of the Learning Curve Associated with Artificial Disc Replacement: Analysis from the Prospective, Randomized, Multicenter FDA IDE Study. Spinal Arthroplasty Society. May, 2005; New York, New York.
104. Holt R, Majd M, Isaza J, Blumenthal S, McAfee P, Guyer R, Hochschuler S, Geisler F, Garcia R, Regan J. Complications of Lumbar Artificial Disc Replacement vs. Fusion: Results from the Randomized, Multicenter FDA IDE Study of the Charite™ Artificial Disc. International Society for the Study of the Lumbar Spine. May, 2005; New York, New York.
105. Guyer R, Sohn J, Blumenthal S, Hochschuler S, Ohnmeiss D: Range of Motion Analysis of the Lumbar Spine after Total Disc Replacement: A Prospective Two-Year Follow-Up Study. International Society for the Study of the Lumbar Spine. May, 2005; New York, New York.
106. Whitaker C, Hochschuler S, Ohnmeiss D, Zigler J, Guyer R, Sachs B, Blumenthal S, Rashbaum R: Return to work following total disc replacement vs. fusion: A prospective, randomized, comparison study. International Society for the Study of the Lumbar Spine. May, 2005; New York, New York.
107. Regan JJ, McAfee PC, Guyer RD, Blumenthal SL, Geisler FH, Garcia R Jr., Maxwell JH: Evaluation of the Learning Curve Associated with Artificial Disc Replacement: Analysis

- from the Prospective, Randomized, Multicenter FDA IDE Study. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Alberta, Canada.
108. McAfee, PC, Geisler FH, Saiedy S, Regan JJ, Guyer RD, Blumenthal SL, Fedder I, Tortolani J, Cunningham B: Revisibility of the CHARITÉ Artificial Disc Replacement—Analysis of 347 Patients Enrolled in the US IDE Study of the CHARITÉ Artificial Disc. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Alberta, Canada.
 109. Holt RT, Majd ME, Isaza JE, Blumenthal SL, McAfee PC, Guyer RD, Hochschuler SH: Complications of Lumbar Artificial Disc Replacement vs. Fusion: Results from The Randomized, Multicenter FDA IDE Study of the Charite Artificial Disc. International Meeting on Advanced Spine Techniques (IMAST). July, 2005; Banff, Alberta, Canada.
 110. Guyer RD, Blumenthal SL, Hochschuler SH, McAfee PC, Regan JJ, Ohnmeiss DD: Prospective Randomized Comparison of Total Disc Replacement to Fusion a 24 Month Follow-up FDA Regulated Study. World Spine. August, 2005; Rio de Janeiro, Brazil.
 111. Blumenthal SL, McAfee PC, Guyer RD, Hochschuler SH, Garcia R Jr., Regan JJ, Ohnmeiss DD: Prospective Randomized Comparison of Total Disc Replacement to Fusion A 24-month Follow-Up FDA Regulated Study Combined with 720. EuroSpine. September, 2005; Barcelona, Spain.
 112. Holt RT, Blumenthal SL, McAfee PC, Majd ME, Guyer RD, Isaza JE, Hochschuler SH, Geisler FH, Garcia R Jr., Regan JJ, Ohnmeiss DD: Complications and Clinical Outcome of Lumbar Artificial Disc Replacement vs. Fusion: Results from the Randomized, Multicenter FDA IDE Study of the CHARITÉ Artificial Disc. EuroSpine. September, 2005; Barcelona, Spain.
 113. McAfee P, Geisler F, Regan J, Blumenthal SL, Guyer R, Fedder I, Tortolani J, Cunningham B, Saiedy S: Revisibility of the Charite Artificial Disc Replacement: Analysis of 347 Patients Enrolled in the US IDE Study of the Charite Artificial Disc. North America Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.
 114. Holt RT, Majd M, Isaza J, Blumenthal S, McAfee P, Guyer R, Hochschuler S, Geisler F, Garcia R, Regan J: Complications of Lumbar Artificial Disc Replacement vs. Fusion: Results from The Randomized, Multicenter FDA IDE Study of the Charite Artificial Disc. North America Spine Society. Sept-Oct, 2005; Philadelphia, Pennsylvania.
 115. Geisler FH, McAfee PC, Saiedy S, Moore S, Blumenthal SL, Guyer RD, Regan JJ: The Revisibility of the CHARITE´ Artificial Disc: Analysis of 688 Consecutive Patients from a Prospective, Randomized, Multicenter IDE Trial. Congress of Neurological Surgeons. October, 2005; Boston, Massachusetts.
 116. Geisler FH, Holt RT, Majd ME, Isaza J, Blumenthal SL, McAfee PC, Guyer RD, Hochschuler SH, Garcia R, Regan JJ: Complications of Lumbar Artificial Disc Replacement versus Fusion: Results from the Randomized, Multicenter Food and Drug Administration Investigational Device Exemption Study of the CHARITE´ Artificial Disc. Congress of Neurological Surgeons. October, 2005; Boston, Massachusetts.
 117. Blumenthal SL: Total Disc Replacement. Disorders of the Spine. January, 2006; Whistler, Canada.

118. Blumenthal S: 5-year Follow-up of Patients Enrolled in the Charite Artificial Disc IDE Study. Spine Arthroplasty Summit. February, 2006; Salt Lake City, Utah.
119. Blumenthal SL: Intervertebral Disk Replacement: Perspectives on the Charité Prosthesis. Symposium: Orthopaedic Surgery 2006: At the Leading Edge. American Academy of Orthopaedic Surgeons. March, 2006; Chicago, Illinois.
120. Blumenthal SL: Total Disc Replacement. Preservation of Motion in the Spine. April, 2006; Duck Key, Florida.
121. Geisler F, Blumenthal S, Guyer R, McAfee P, Regan J: Alternative Statistical Testing Demonstrates Superiority of Lumbar Arthroplasty Clinical Outcomes at 2 Years vs. Fusion for the Treatment of One-Level Lumbar Degenerative Disc Disease at L4-5 or L5-S1. Spine Arthroplasty Society. May, 2006; Montreal, Canada.
122. Siddiqui S, Guyer R, Zigler J, Ohnmeiss D, Blumenthal S, Sachs B, Hochschuler S: Factors Related to the 20 Best and 20 Worst 24-months Outcomes of Total Disc Replacement in Prospective FDA-regulated Trials. Spine Arthroplasty Society. May, 2006; Montreal, Canada.
123. Lhamby J, Guyer R, Zigler J, Blumenthal S, Sachs B, Hochschuler S, Rashbaum R, Ohnmeiss D: Patients Undergoing Total Disc Replacement with Spinal Fusion at Different Lumbar Levels. International Society for the Study of the Lumbar Spine. June, 2006; Bergen, Norway.
124. McAfee, P, Geisler F, Saiedy S, Moore S, Regan J, Guyer R, Blumenthal S, Fedder I, Tortolani J, Cunningham B: Revisibility of the Charité Artificial Disc Replacement - Analysis of 688 Patients Enrolled in the US IDE Study of the Charité Artificial Disc. International Society for the Study of the Lumbar Spine. June, 2006; Bergen, Norway.
125. Lhamby J, Guyer R, Zigler J, Blumenthal S, Sachs B, Hochschuler S, Rashbaum R, Ohnmeiss D: Patients Undergoing Total Disc Replacement with Spinal Fusion at Different Lumbar Levels. Spine Across the Sea. July, 2006; Maui, Hawaii.
126. Siddiqui S, Guyer R, Zigler J, Ohnmeiss D, Blumenthal S, Sachs B, Hochschuler S: Factors Related to the 20 Best and 20 Worst 24-months Outcomes of Total Disc Replacement in Prospective FDA-regulated Trials. Spine Across the Sea. July, 2006; Maui, Hawaii.
127. Guyer RD, Blumenthal SL, Geisler FH, McAfee PC, Regan JJ: The First Year Following FDA Approval of the CHARITÉ Artificial Disc: “Real World” Adverse Events Outside an IDE Study Environment. Spine Across the Sea. July, 2006; Maui, Hawaii.
128. Siddiqui S, Hochschuler SH, Guyer RD, Zigler JE, Ohnmeiss DD, Blumenthal SL, Sachs BL, Rashbaum RF, Craig L: Factors Related to the 20 Best and 20 Worst 24-month Outcomes of Total Disc Replacement in Prospective FDA-regulated Trials. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.

129. Blumenthal SL, Banco RJ, Bitan FD, Cappuccino A, Geisler FH, Guyer RD, Hochschuler SH, Holt RT, Jenis LG, Majd ME, McAfee PC, Mullin BB, Regan JJ, Stadlan NY, Tromanhauser SG, Wong DC: Lumbar Arthroplasty vs. Anterior Interbody Fusion at One-Level: Clinical Results at 5-Year Follow-up from the IDE Study of the CHARITÉ Artificial Disc. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
130. Blumenthal SL, Guyer RD, Geisler FH, McAfee PC, Regan JJ: The First Year Following FDA Approval of the CHARITÉ Artificial Disc: "Real World" Adverse Events Outside an IDE Study Environment. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
131. Siddiqui S, Guyer RD, Zigler JE, Ohnmeiss DD, Blumenthal SL, Craig L, Sachs BL, Hochschuler SH, Rashbaum RF: Factors Related to the 20 Best and 20 Worst 24-month Outcomes of Total Disc Replacement in Prospective FDA-regulated Trials. North American Spine Society. September, 2006; Seattle, Washington.
132. Guyer RD, Blumenthal SL, Geisler FH, McAfee PC. One-Level Lumbar Arthroplasty in Patients 18-45 Years of Age vs. Patients 46-60 Years of Age: Is There a Difference in Clinical Outcome? North American Spine Society. September, 2006; Seattle, Washington.
133. Blumenthal SL, Guyer RD, Geisler FH, McAfee PC, Regan JJ: The First Year Following FDA Approval of the CHARITÉ Artificial Disc: Real World Adverse Events Outside an IDE Study Environment. Spine Society of Europe (EuroSpine). October, 2006; Istanbul, Turkey.
134. Blumenthal SL: Motion Preservation and Artificial Disk Technology: What Did the FDA IDE Data Demonstrate about TDR? Disorders of the Spine. January, 2007; Whistler, Canada.
135. Blumenthal S: Rationale for Arthroplasty. Controversies in Spine Surgery. February 2007; Cancun, Mexico.
136. Blumenthal SL, Lumbar Artificial Discs (panel presentation). North American Spine Society Spring Break. March, 2007; Phoenix, Arizona.
137. Blumenthal SL: Cervical Controversies (panel presentation). North American Spine Society Spring Break. March, 2007; Phoenix, Arizona.
138. Guyer RD, McAfee PC, Banco RJ, Bitan FD, Cappuccino A, Geisler FH, Hochschuler SH, Holt RT, Jenis LG, Majd ME, Mullin BB, Regan JJ, Stadlan NY, Tromanhauser SG, Wong DC, Blumenthal SL: Lumbar Arthroplasty vs. Anterior Interbody Fusion at One-level Clinical Results at 5-year Follow-up from the IDE Study of Charite Artificial Disc. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
139. Blumenthal SL, Geisler F, Zigler JE, Guyer RD, Ohnmeiss DD: Similarities and Differences in Clinical and Radiographic Outcomes of Two US IDE Trials for Lumbar Disc Replacement. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
140. Cunningham BW, DeMuth G, McAfee PC, Scott-Young M, Yoon K, Blumenthal S, Guyer R, Geisler F, Regan J, Conix JB, Hess R, Pimenta L, Diaz R, Fedder I, Tortolani PJ: Survivor Analysis of the Charite Artificial Disc: Review of 1,938 Patients from Eight

- Leading International Spine Centers. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
141. Blumenthal SL: 5 Year Outcomes of CHARITE TDR and Comparison of Charite and ProDisc-L IDE Investigations. (Precourse) Spine Arthroplasty Society. May, 2007; Berlin, Germany.
 142. Geisler FH, Guyer RD, Blumenthal SL, McAfee PC, Cappuccino A, Bitan F, Regan JJ: The Effect of Previous Surgery on Clinical Outcome Following One-level Lumbar Arthroplasty. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
 143. Geisler FH, Guyer RD, Blumenthal SL, McAfee PC, Cappuccino A, Bitan F, Regan JJ: Evidence for One-Level Lumbar Arthroplasty or Arthrodesis for Degenerative Disc Disease: A Comparison of Two Lumbar Arthroplasty IDE Studies with 2-year Follow-Up. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
 144. Blumenthal SB, Zigler JE, Guyer RD, Ohnmeiss DD: Comparison of Charite vs. ProDisc for the Treatment of Single-level Symptomatic Disc Degeneration: Prospective Data from One Center. International Society for the Study of the Lumbar Spine. June, 2007; Hong Kong, China.
 145. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: A Prospective Randomized Study Comparing Two Lumbar Total Disc Replacement Devices. International Meeting on Advanced Spinal Techniques (IMAST). July, 2007; Paradise, Bahamas.
 146. Bosita RV, Banco RJ, Blumenthal SL, Buckley R, Cappuccino A, Demakas JJ, Garden MS, Geisler F, Jenis LG, Laich DT, Lazar RD, Puccio ST, Thalgott J, Tromanhauser SG. Performance and Safety of the STALIF Device for Anterior Lumbar Interbody Fusion. International Meeting on Advanced Spinal Techniques (IMAST). July, 2007; Paradise, Bahamas.
 147. Cunningham BW, Demuth G, McAfee PC, Scott-Young M, Yoon, KJ, Blumenthal SL, Guyer RD, MD, Geisler F, Regan JJ, Conix B, Hes R, Pimenta L, Diaz R, Fedder RL, Tortolani J. Survivorship Analysis of the CHARITE Artificial Disc: Review of 1,938 Patients from Eight Leading International Spine Centers. International Meeting on Advanced Spinal Techniques (IMAST). July, 2007; Paradise, Bahamas.
 148. McAfee PC, Cunningham BW, Geisler F, Guyer RD, Blumenthal SL, MD, Cappuccino A, Regan JJ: A Comparison of In Vivo and In Vitro Range of Motion Distribution Following One-Level Lumbar Arthroplasty —2 to 5 year Radiographic Follow-up of 375 Consecutive Patients Enrolled in the CHARITÉ Artificial Disc FDA Level I Pivotal Trial. International Meeting on Advanced Spinal Techniques (IMAST). July, 2007; Paradise, Bahamas.
 149. Guyer RD, Lhamby J, Ohnmeiss DD, Zigler J, Blumenthal S: Total Disc Replacement and Fusion at Different Lumbar Levels in the Same Patient. World Spine. July, 2007; Istanbul, Turkey.
 150. Blumenthal SL, Guyer RD, Ohnmeiss DD, Sachs BL, Hochschuler SH, Rashbaum RF: Comparison of Charite Vs. ProDisc for the Treatment of Single-level Symptomatic Disc Degeneration: Prospective Data from One Center. Spine Society of Europe. October, 2007; Brussels, Belgium.

151. Guyer RD, McAfee PC, Banco RJ, Bitan FD, Cappuccino A, Geisler FH, Hochschuler SH, Holt RT, Jenis LG, Majd ME, Mullin BB, Regan JJ, Stadlan NY, Tromanhauser SG, Wong DC, Blumenthal SL: Lumbar Arthroplasty vs. Anterior Interbody Fusion at One-level Clinical Results at 5-year Follow-up from the IDE Study of Charite Artificial Disc. North American Spine Society. October, 2007; Austin, Texas.
152. Cunningham BW, Demuth G, McAfee PC, Scott-Young M, Yoon, KJ, Blumenthal SL, Guyer RD, MD, Geisler F, Regan JJ, Conix B, Hes R, Pimenta L, Diaz R, Fedder RL, Tortolani J. Survivorship Analysis of the CHARITE Artificial Disc: Review of 1,938 Patients from Eight Leading International Spine Centers. North American Spine Society. October, 2007; Austin, Texas.
153. Blumenthal S, Roush T, Guyer R, Ohnmeiss D: Analysis of Hybrid (Total Disc Replacement / Fusion Constructs) in the Lumbar Spine: A Comparison with Two-Level Total Disc Replacement. Asia Pacific Spine Arthroplasty Society. January, 2008; Seoul, South Korea.
154. Guyer R, Cappuccino A, Blumenthal S: A Prospective Randomized Comparison of Two Lumbar Total Disc Replacements. Asia Pacific Spine Arthroplasty Society. January, 2008; Seoul, South Korea.
155. Blumenthal SL: Surgical Treatments for Single-Level L5-S1 DDD: TDR vs. Fusion. Asia Pacific Spine Arthroplasty Society. January, 2008; Seoul, South Korea.
156. Blumenthal SL: Total Disc Arthroplasty Update. Neuroscience Lecture Series. February, 2008; Plano, Texas.
157. McAfee PC, Blumenthal SL, Guyer RD, Holt RT, Majd ME, Geisler FH, Banco RJ: Prospective, Randomized, Multicenter FDA IDE Study of Charité™ Artificial Disc vs. Lumbar Fusion: Effect at 5-Year Follow-up of Prior Surgery on Clinical Outcomes following Lumbar Arthroplasty. Congress of Neurological Surgeons/American Association of Neurological Surgeons. February, 2008; Orlando, Florida.
158. Guyer RD, McAfee PC, Hochschuler SH, Holt RT, Majd ME, Blumenthal SL, Regan JJ, Geisler FH, Banco RJ, Jenis L, Wong D, Capuccino A, Tromanhauser SG, Bitan F, Stadlan N: Prospective, Randomized, Multicenter Food and Drug Administration Investigational Device Exemption Study of Lumbar Total Disc Replacement with the Charité™ Artificial Disc Versus Lumbar Fusion 5-Year Follow-up. Congress of Neurological Surgeons/American Association of Neurological Surgeons. February, 2008; Orlando, Florida.
159. Banco RJ, Geisler FH, Guyer RD, Hetzell B, Holt RT, Majd ME: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Effect at 5-year Follow-up of Age on Clinical Outcomes Following Lumbar Arthroplasty. Congress of Neurological Surgeons/American Association of Neurological Surgeons. February, 2008; Orlando, Florida.

160. Regan JJ, Banco RJ, Blumenthal SL, Jenis LG, Geisler FH, Holt RT, Majd ME, Hetzell B: Prospective, Randomized, Multicenter Food and Drug Administration Investigational Device Exemption Study of Lumbar Total Disc Replacement with the Charité™ Artificial Disc versus Lumbar Fusion: Comparison of the Clinical Outcome of Patients Implanted at L4-L5 vs. L5-S1. Congress of Neurological Surgeons/American Association of Neurological Surgeons. February, 2008; Orlando, Florida.
161. Geisler FH, McAfee PC, Banco RJ, Blumenthal SL, Guyer RD, Holt RT, Majd ME: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Effect at 5-year Follow-up of Prior Surgery on Clinical Outcomes Following Lumbar Arthroplasty. Congress of Neurological Surgeons/American Association of Neurological Surgeons. February, 2008; Orlando, Florida.
162. Guyer, RD, Cappuccino A, Blumenthal SL: A Prospective Randomized Comparison of Two Lumbar Total Disc Replacements. Spine Arthroplasty Society. May, 2008; Miami, Florida.
163. Geisler FH, Banco R, Blumenthal SL, Guyer RD, McAfee PC, Holt RT, Majd ME, Regan JJ: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Effect at 5-year Follow-up of Prior Discectomy on Clinical Outcomes Following Lumbar Arthroplasty. Spine Arthroplasty Society. May, 2008; Miami, Florida.
164. McAfee PC, Banco RJ, Blumenthal SL, Geisler FH, Guyer RD, Holt RT, Majd ME: Prospective, Randomized, Multicenter FDA IDE Study of Charite Artificial Disc Vs. Lumbar Fusion: Effect at 5-Year Follow-up of Prior Surgery on Clinical Outcomes Following Lumbar Arthroplasty. Eurospine. May, 2008; Geneva, Switzerland.
165. Guyer RD, Laurysen C, Blumenthal SL: A Prospective Randomized Comparison of Cervical Total Disc Replacement to Anterior Cervical Fusion. North American Spine Society SpineWeek. May, 2008; Geneva, Switzerland.
166. Guyer RD, Cappuccino A, Blumenthal SL: A Prospective Randomized Comparison of Two Lumbar Total Disc Replacements. North American Spine Society SpineWeek. May, 2008; Geneva, Switzerland.
167. Li B, Guyer RD, Blumenthal SL, Zigler JE, Ohnmeiss DD: Does Pre-Operative Disc Height Affect Outcome of Lumbar Total Disc Replacement? International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
168. Guyer RD, Geisler FH, Holt RT, Majd ME, Regan JJ, Wong DC, Jenis LG, Banco RJ, Blumenthal SL, DeMuth GE, Hetzell BC: The Impact of Postoperative Disc Height Following Arthroplasty on Long-term Clinical and Radiographic Outcomes – A 5-Year Follow-up Study. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
169. Regan JJ, Banco RJ, Blumenthal SL, Jenis LG, Geisler FH, Holt RT, Majd ME, Hetzell B: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Comparison of the Clinical Outcome of Patients Implanted at L4-L5 vs. L5-S1. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.

170. Guyer RD, McAfee PC, Banco RJ, Bitan FD, Cappuccino A, Geisler FH, Hochschuler SH, Holt RT, Jenis LG, Majd ME, Regan JJ, Stadlan NY, Tromanhauser SG, Wong DC, Blumenthal SL: Prospective, Randomized, Multicenter, Food and Drug Administration Investigational Device Exemption Study of Lumbar Total Disc Replacement with the Charite Artificial Disc versus Lumbar Fusion – 5 Year Follow-up. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
171. McAfee PC, Banco RJ, Blumenthal SL, Geisler FH, Guyer RD, Holt RT, Majd ME: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Effect at 5-year Follow-up of Prior Surgery on Clinical Outcomes Following Lumbar Arthroplasty. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
172. Geisler FH, Banco RJ, Blumenthal SL, Guyer RD, McAfee PC, Holt RT, Majd ME, Regan JJ: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Effect at 5-year Follow-up of Prior Discectomy on Clinical Outcomes Following Lumbar Arthroplasty. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
173. Blumenthal SL, Ohnmeiss DD, Guyer RD, Hochschuler SH: Analysis of Total Disc Replacement Outcomes When Applying MCID (Minimal Clinically Important Difference) Criteria. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
174. 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.
175. Guyer RD, Cappuccino A, Blumenthal S: A Prospective Randomized Comparison of Two Lumbar Total Disc Replacements. North American Spine Society. October, 2008; Toronto, Canada.
176. Guyer RD, Geisler F, Majd M, Holt RT, Regan J, Blumenthal S, Wong D, Jenis L, Banco R: The Impact of Preoperative DEXA Scores Following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. North American Spine Society. October, 2008; Toronto, Canada.
177. Blumenthal SL: Why Preserving Motion? Brussels International Spine Symposium (BISS). November, 2008; Brussels, Belgium.
178. Blumenthal SL: Fusion Topping. Brussels International Spine Symposium (BISS). November, 2008; Brussels, Belgium.
179. Blumenthal SL: Oxiplex Reduces Post Surgical Back Pain, Leg Pain and Associated Symptoms 6 Months Following Single-level Lower Lumbar Laminectomy for Removal of a Herniated Disc. Spine Society of Australia. April, 2009; Brisbane, Australia.
180. 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.

181. Guyer RD, Auer B, Zigler JE, Ohnmeiss DD, Blumenthal SL: Relationship between Endplate Morphology and Clinical Outcome of Single-Level Lumbar Disc Arthroplasty. Lumbar Spine Research Society. April, 2009; Chicago, Illinois.
182. Blumenthal SL: Charite Total Disc Replacement. Preservation of Motion in the Spine. April, 2009; Duck Key, Florida.
183. 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.
184. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Impact of Adverse Events on Outcome in Cervical Total Disc Replacement Trials. Spine Arthroplasty Society. April-May, 2009; London, England.
185. 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.
186. Wong DC, Jenis LG, Guyer RD, Banco RJ, Geisler FH, Holt RT, Majd ME, Regan JJ, Blumenthal SL, DeMuth GE, Hetzell BC: Is Preoperative Disc Height a Contributing Factor in 5-year Success Rate with Arthrodesis and Arthroplasty? Spine Arthroplasty Society. April-May, 2009; London, England.
187. Guyer RD, Auer PB, Zigler JE, Ohnmeiss DD, Blumenthal SL: Relationship between Endplate Morphology and Clinical Outcome of Single-Level Lumbar Disc Arthroplasty. International Society for the Study of the Lumbar Spine. May, 2009; Miami, Florida.
188. Zigler JE, Parkinson A, Guyer RD, Blumenthal SL, Ohnmeiss DD: Re-operations in Lumbar Total Disc Replacement: Experience with Our First Consecutive 800 Cases. International Society for the Study of the Lumbar Spine. May, 2009; Miami, Florida.
189. Blumenthal SL: Why Artificial Disc of the Lumbar Spine Run into a Predicament in Clinical Application. International Symposium on Orthopaedic Translational Research and Technical Advance. May, 2009; Shanghai, China.
190. Guyer RD, Auer PB, Zigler JE, Blumenthal SL, Ohnmeiss DD: Relationship between Endplate Morphology and Clinical Outcome of Single-Level Lumbar Disc Arthroplasty. Spine Across the Sea. July, 2009; Maui, Hawaii.
191. Zigler JE, Parkinson A, Guyer RD, Blumenthal SL, Ohnmeiss DD: Re-operations in Lumbar Total Disc Replacement: Experience with Our First Consecutive 800 Cases. Spine Across the Sea. July, 2009; Maui, Hawaii.
192. 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.
193. 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.

194. 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.
195. Zigler JE, Parkinson A, Guyer RD, Blumenthal SL, Ohnmeiss DD: Re-operations in Lumbar Total Disc Replacement: Experience with Our First Consecutive 800 Cases. International Meeting on Advanced Spine Techniques (IMAST). July, 2009; Vienna; Austria.
196. Saigy S, McAfee PC, Geisler FH, Moore S, Regan J, Guyer R, Blumenthal S, Fedder IL, Tortolani JP, Cunningham BW: Revision Following Lumbar Total Disc Replacement: Analysis of Reoperations in the U.S. IDE Study of Lumbar Arthroplasty. International Meeting on Advanced Spine Techniques (IMAST). July, 2009; Vienna; Austria.
197. Blumenthal S: Lumbar TDR. (Pre-Course: Section on Motion Technology). North American Spine Society. October, 2009; San Francisco, California.
198. Blumenthal SL: Oxioplex. Brussels International Spine Symposium. November, 2009; Brussels, Belgium.
199. Blumenthal SL: Anulex. Brussels International Spine Symposium. November, 2009; Brussels, Belgium.
200. 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.
201. 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.
202. Blumenthal SL, Guyer RD. Anular Repair after Lumbar Discectomy: Preliminary Observations from an Ongoing, Prospective, Randomized, Controlled Clinical Trial. The International Society for the Study of the Lumbar Spine. April, 2010; Auckland, New Zealand.
203. 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.
204. 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.
205. 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.
206. Blumenthal SL: Around the World Experience with Cervical and Lumbar Total Disc Replacement: North America. (Pre-course: Around the World Experience with Cervical and Lumbar Total Disc Replacement). Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.

207. 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.
208. 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.
209. Blumenthal SL: Complications and Avoidance in Osteoporotic Bone. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
210. 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.
211. 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.
212. 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.
213. 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.
214. 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.
215. 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.
216. Blumenthal SL: Interspinous Devices. Instructional Course. State of the Art on the Advances of Research of the Lumbar Spine. October, 2010; Beijing, China.
217. Blumenthal SL: Ten Years of Lumbar Total Disc Replacement. Instructional Course. State of the Art on the Advances of Research of the Lumbar Spine. October, 2010; Beijing, China.
218. Blumenthal SL: Alternative to Fusion. Brussels International Spine Symposium. November, 2010; Brussels, Belgium.
219. Blumenthal SL: Can Motion Sparing Technology Surpass the Outcomes for Fusion for LBP? Brussels International Spine Symposium. November, 2010; Brussels, Belgium.

220. 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.
221. 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.
222. 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.
223. Blumenthal SL: Role of Discography. Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.
224. Blumenthal SL. Squishy Disc. Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.
225. Blumenthal SL: Is Surgery for DDD Useful, Efficacious and Cost Effective? Current Solutions in Spine Surgery. March-April, 2011; Duck Key, Florida.
226. Blumenthal SL: Physician Perspective About Regulatory and Insurer Trends Relating to Spine Surgery, Impact Upon emerging Technologies and Medical Practice. (Precourse) International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
227. 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.
228. 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.
229. 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.
230. 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.
231. Blumenthal SL: Mini 360 versus Open 360. Brussels International Spine Symposium. November, 2011; Brussels, Belgium.
232. Blumenthal SL: MIS Spinal Stenosis Decompression via Interspinous Devices. Brussels International Spine Symposium. November, 2011; Brussels, Belgium.

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

245. 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.
246. Blumenthal SL: Does Cervical TDR Design Matter: A Clinical Perspective. (part of Lumbar Disc Replacement Symposium). North American Spine Society. October, 2012; Dallas, Texas.
247. 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.
248. Blumenthal SL: Iatrogenic Stenosis. Brussels International Spine Symposium. November, 2012; Brussels, Belgium.
249. Blumenthal SL: Loss of Fixation. Brussels International Spine Symposium. November, 2012; Brussels, Belgium.
250. Blumenthal SL: What Have We Learned From the Debacle of the Charite Disc? Symposium on Spinal Disorders. January-February, 2013; Las Vegas, Nevada.
251. Blumenthal SL: My Worst Motion Preservation Complication and What I Learned. Symposium on Spinal Disorders. January-February, 2013; Las Vegas, Nevada.
252. 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.
253. 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.
254. Blumenthal SL: Iatrogenic Stenosis. China International Conference on Lumbar Spine. Xi'an, China; May, 2013.
255. Blumenthal SL: Loss of Fixation. China International Conference on Lumbar Spine. Xi'an, China; May, 2013.
256. Blumenthal SL: Lumbar Total Disc Replacement: Complications and Their Prevention. China International Conference on Lumbar Spine. Xi'an, China; May, 2013
257. 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.
258. 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.
259. Blumenthal SL: Cervical HNP-Is Disc Replacement the New Gold Standard? What Does the Evidence Say? Brussels International Spine Symposium. November, 2013; Brussels, Belgium.

260. Blumenthal SL: Are We Better Scientists Today with Current Outcomes Measurements Compared to 20 Years Ago? Brussels International Spine Symposium. November, 2013; Brussels, Belgium.
261. Blumenthal SL: Can ADR Surgery Be Supported in Value Based Medicine? Symposium on Current Concepts in Spinal Disorders. January-February, 2014; Las Vegas, Nevada.
262. Blumenthal SL: Cervical Arthroplasty: The New Standard for Cervical HNP. Mazama Spine Summit. February, 2014; Winthrop, Washington.
263. Blumenthal SL: Current Innovations in Spine: Successes and Challenges. Spine Summit. February, 2014; Dallas, Texas.
264. Blumenthal SL: Complications of Lumbar Total Disc Replacement. Current Solutions in Spine Surgery. April, 2014; Duck Key, Florida.
265. Blumenthal SL: Introduction. Symposium: Cervical Arthroplasty: Is It Now the Gold Standard for Herniated Disc? International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
266. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: The Re-operation Rate in a Single Dataset Varies Significantly Depending on the Definitions Applied. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
267. Garcia R, Yue JY, Blumenthal SL: 2 Year Results of a Prospective, Randomized, Multicenter Investigational Device Exemption Study of the Activ-L Total Disc Replacement for the Treatment of Single Level Degenerative Disc Disease. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
268. Ohnmeiss DD, Baker R, Guyer RD, Blumenthal SL, Zigler JE: The Re-operation Rate in a Single Dataset Varies Significantly Depending on the Definitions Applied. International Society for the Study of the Lumbar Spine. June, 2014; Seoul, Korea.
269. Blumenthal SL: Cervical Disc Replacement: The New Gold Standard in Treating Cervical Disc Herniations? Becker's Spine and Ortho conference. June, 2014; Chicago, Illinois.
270. Blumenthal SL: Complications. Spine Summit. September, 2014; Pittsburgh, Pennsylvania.
271. Blumenthal SL: Degenerative Scoliosis by the Non-Scoliosis Surgeon: Limited Fusion as an Alternative to Fusing the Whole Curve. Brussels International Spine Symposium. November, 2014; Brussels, Belgium.
272. Blumenthal SL: Nonfusion Alternatives to Traditional Fusion Indications in the Elderly. Brussels International Spine Symposium. November, 2014; Brussels, Belgium.
273. Blumenthal SL: Introduction to Fusion. Mazama Spine Summit. February, 2015; Winthrop, Washington.
274. Blumenthal SL: Interspinous Process Decompression with Coflex. Mazama Spine Summit. February, 2015; Winthrop, Washington.
275. Blumenthal SL: Status of Lumbar Disc Replacement – Results of ActivL[®] Trial. Perspectives in Lumbar Spine Surgery. March, 2015; Berlin, Germany.

276. Blumenthal SL: Degenerative Scoliosis by a Non Scoliosis Surgeon-Limited Fusion Rather Than Fusing the Whole Curve. Perspectives in Lumbar Spine Surgery. March, 2015; Berlin, Germany.
277. Blumenthal SL, Davis RJ, Hisey MS, Bae HW: Comparison of One and Two-level Treatment with Cervical Disc Arthroplasty or Anterior Cervical Discectomy and Fusion. Spine Society of Australia. April, 2015; Canberra, Australia.
278. Blumenthal SL, Davis RJ, Hisey MS, Bae HW: One-Level Cervical Disc Arthroplasty Versus Anterior Cervical Discectomy and Fusion: Five-Year Results of a Prospective, Randomized Clinical Trial. Spine Society of Australia. April, 2015; Canberra, Australia.
279. 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.
280. Guyer RD, Blumenthal SL, Ohnmeiss DD, Zigler JE: Long-Term Evaluation of Re-Operation Rates for Lumbar Total Disc Replacement and Fusion: Analysis of 1,279 Patients. Spine Society of Australia. April, 2015; Canberra, Australia.
281. Owusu A, Zigler JE, Ohnmeiss DD, Guyer RD, Blumenthal SL: Pregnancy after Lumbar Total Disc Replacement. Global Spine Congress. May, 2015; Buenos Aires, Argentina. Global Spine Congress. May, 2015; Buenos Aires, Argentina.
282. Blumenthal SL: Cervical Total Disc Replacement. Castellvi Spine. May, 2015; Duck Key, Florida.
283. Blumenthal SL: Complications with TDR Heterotopic Ossification. Castellvi Spine. May, 2015; Duck Key, Florida.
284. Guyer RD, Otero-Lopez E, Zigler JE, Ohnmeiss DD, Blumenthal SL: Comparison of Clinical Outcomes for Anterior vs. 360 Fusion at the Fusion Level of Lumbar Hybrid Surgery. Global Spine Congress. May, 2015; Buenos Aires, Argentina.
285. Blumenthal SL, Bradley WD, MD, Ohnmeiss DD: A Prospective, Randomized, Multicenter Study Comparing Two Interspinous Devices for the Treatment of Lumbar Stenosis. International Society for the Study of the Lumbar Spine. June, 2015; San Francisco, California.
286. Ohnmeiss, DD, Guyer RD, Blumenthal SL, Zigler JE: The Re-operation Rate in a Single Dataset Varies Significant Depending on the Definitions Applied. Spine Across the Sea. July, 2015; Big Island, Kohala Coast, Hawaii.
287. Rogers RW, Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Clinical Outcomes following Anterior Cervical Hybrid Surgery Using Total Disc Replacement Combined with Anterior Cervical Fusion at the Adjacent Segment. Spine Across the Sea. July, 2015; Big Island, Kohala Coast, Hawaii.
288. Otero-Lopez ER, Blumenthal SL, Ohnmeiss, Guyer RD, Zigler JE: Comparison of Clinical Outcomes for Anterior vs. 360 Fusion at the Fusion Level of Lumbar Hybrid (Total Disc Replacement / Fusion) Surgery. Spine Across the Sea. July, 2015; Big Island, Kohala Coast, Hawaii.

289. Blumenthal SL: Brief History of Total Disc Replacement. (Part of precourse: The Evolution of Total Disc Replacement and Future Directions). North American Spine Society. October, 2015; Chicago, Illinois.
290. Blumenthal SL: Is Hybrid the Solution for Multi-level Lumbar Degenerative Disc Disease? (Part of precourse: The Evolution of Total Disc Replacement and Future Directions). North American Spine Society. October, 2015; Chicago, Illinois.
291. Blumenthal SL: The Current State and Use of Stem Cells in Spine Surgery. Brussels International Spine Symposium. November, 2015; Brussels, Belgium.
292. Blumenthal SL: Robotic Surgery and the Accuracy of Pedicle Screw Placement. Brussels International Spine Symposium. November, 2015; Brussels, Belgium.
293. Blumenthal SL, Hisey MS, Bae HW: Comparison of One and Two-Level Treatment with Cervical Disc Arthroplasty or Anterior Cervical Discectomy and Fusion through Five-year Follow-up. Cervical Spine Research Society. December, 2015; San Diego, California.
294. Blumenthal SL, Davis RJ, Hisey MS, Bae HW: Comparison of Cervical Disc Arthroplasty at Two Levels with Anterior Cervical Discectomy and Fusion - Results of a Clinical Trial Investigational Device Exemption (IDE) with 5-Year Follow-up. German Vertebral Column Congress. December, 2015; Frankfurt, Germany.
295. Blumenthal S: Outpatient Options for Spondylolisthesis: ALIF. MAZAMA Spine Summit. January, 2016; Winthrop, Washington.
296. Blumenthal S: 40 Year Old With Axial Low Back Pain—Is There a Role for Surgery in 2016? Current Concepts in Spinal Disorders. January, 2016; Las Vegas, Nevada.
297. Putney E, Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Analysis of Hospital Length of Stay Following Lumbar Anterior/Posterior Combined Fusion: Is There a Disadvantage Associated with Shorter Stays? Spine Society of Australia. April, 2016; Melbourne, Australia.
298. Blumenthal SL, Zigler JE, Shivers J, Ohnmeiss DD, Guyer RD: Complications Associated with the Anterior Approach to the Lumbar Spine: Analysis of 2,881 Consecutive Cases during a 6-Year Period. Spine Society of Australia. April, 2016; Melbourne, Australia.
299. Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Stand-Alone Interbody Devices in the Treatment of Cervical Spine Disease. Spine Society of Australia. April, 2016; Melbourne, Australia.
300. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Re-operation Rates in Lumbar Spine Surgery: Statistically Significant Differences Exist in the Same Dataset When Different Definitions for Re-operation Are Applied. North American Spine Society. October, 2016; Boston, Massachusetts.
301. Blumenthal SL: Lumbar Hybrid. Section on Spine Motion Technology: Debating Options for Treating Painful Lumbar Disc Degeneration and Lumbar Stenosis. North American Spine Society. October, 2016; Boston, Massachusetts.

302. Zigler JE, Putney E, Ohnmeiss DD, Guyer RD, Blumenthal SL: Anterior Access to the Lumbar Spine: Complications Encountered in 2,881 Consecutive Procedures. North American Spine Society. October, 2016; Boston, Massachusetts.
303. Garcia R, Yue J, Blumenthal SL, Coric D, Patel VV: Lumbar Total Disc Replacement for Discogenic Low Back Pain: Primary Powered Endpoint Outcomes of The activL® IDE Clinical Trial. North American Spine Society. October, 2016; Boston, Massachusetts.
304. Blumenthal SL: Seven-year Clinical Results of Cervical Total Disc Replacement Compared with Anterior Discectomy and Fusion for Treatment of Two-level Symptomatic Degenerative Disc Disease: A Prospective, Randomized, Controlled, Multicenter FDA Clinical Trial. German Vertebral Column Congress. December, 2016; Hannover, Germany.
305. Blumenthal SL: Seven-Year Radiographic Adjacent Segment Pathology after Treatment with TDR or ACDF at One or Two Levels. German Vertebral Column Congress. December, 2016; Hannover, Germany.
306. Phillips F, Sasso R, Coric D, Guyer R, Sama A, Cammisa F, Blumenthal S, Albert T, Zigler J: Clinical and Radiographic Outcomes for the M6-C Artificial Cervical Disc: 1 Year Follow-up at Five IDE Investigation Centers for a Novel Design Six Degree of Freedom Prosthesis. International Society for the Advancement of Spine Surgery. April, 2017; Boca Raton, Florida.
307. Blumenthal SL, Guyer RD, Ohnmeiss DD, Zigler JE: Adjacent Segment Degeneration after Lumbar Total Disc Replacement: 5-Year Results of a Multicenter, Prospective, Randomized Study with Independent Radiographic Assessment. International Society for the Study of the Lumbar Spine. May – June, 2017; Athens, Greece.
308. Blumenthal SL: Discography-What Is the Evidence for and Against? Brussels International Spine Symposium. November, 2016; Brussels, Belgium.
309. Blumenthal SL: Pre-packaged Spinal Implants-Does It Make Clinical and Economic Sense? Brussels International Spine Symposium. November, 2016; Brussels, Belgium.
310. Blumenthal SL: Axial Back Pain DDD- Surgery (Fusion or ADR) vs. Nonoperative Management (Debate). Brussels International Spine Symposium. November, 2016; Brussels, Belgium.
311. Blumenthal SL: Outpatient Arthroplasties. MAZAMA Spine Summit. January, 2017; Winthrop, Washington.
312. Blumenthal S: Indirect Decompression System for Lumbar Stenosis – What is the Future? Current Concepts in Spinal Disorders. February, 2017; Las Vegas, Nevada.
313. Phillips F, Sasso R, Coric D, Guyer R, Sama A, Cammisa F, Blumenthal S, Albert T, Zigler J: Clinical and Radiographic Outcomes for the M6-C Artificial Cervical Disc: 1 Year Follow-up at Five IDE Investigation Centers for a Novel Design Six Degree of Freedom Prosthesis. International Society for the Advancement of Spine Surgery. April, 2017; Boca Raton, Florida.

314. Blumenthal SL, Sasso R, Ohnmeiss DD: Prospective FDA Trial for a Compressible Cervical Total Disc Replacement: Data from Two Participating Centers. Spine Society of Australia. April, 2017; Hobart, Australia.
315. Blumenthal SL, Guyer RD, Ohnmeiss DD, Zigler JE: Adjacent Segment Degeneration after Lumbar Total Disc Replacement: 5-Year Results of a Multicenter, Prospective, Randomized Study with Independent Radiographic Assessment. International Society for the Study of the Lumbar Spine. May-June, 2017; Athens, Greece.
316. Blumenthal S, Ohnmeiss D, Guyer R, Zigler J: Adjacent Segment Degeneration after Lumbar Total Disc Replacement: 5-Year Results of a Multicenter, Prospective, Randomized Study with Independent Radiographic Assessment. Eurospine. October, 2017; Dublin, Ireland.
317. Sasso R, Phillips F, Guyer R, Sama A, Cammisa F, Blumenthal S, Albert T, Zigler J. M6-C Artificial Cervical Disc: Two-Year Follow-Up at Five IDE Investigation Centers. North American Spine Society. October, 2017; Orlando, Florida.
318. Blumenthal SL, Guyer RD, Ohnmeiss DD, Zigler JE: Adjacent Segment Degeneration after Lumbar Total Disc Replacement: 5-Year Results of A Multicenter, Prospective, Randomized Study with Independent Radiographic Assessment. North American Spine Society. October, 2017; Orlando, Florida.
319. Blumenthal SL: Why Spinal Fusion or Arthroplasty Still May be Good Options. North American Spine Society. October, 2017; Orlando, Florida.
320. Blumenthal SL: Spondylolisthesis with Adjacent Disc Degeneration – What Is the Best Surgical Treatment? Brussels International Spine Symposium. November, 2017; Brussels, Belgium.
321. Blumenthal SL: Interlaminar/spinous Process Fixation for Spondy. Brussels International Spine Symposium. November, 2017; Brussels, Belgium.
322. Blumenthal S: Outpatient Cervical ADR is Now the Gold Standard for One and 2 Level HNP. Mazama Spine Summit. January, 2018; Winthrop, Washington.
323. Blumenthal S: Meta-Analysis of arthroplasty devices + fusion in selected patient population/ Results of a FDA controlled Multi-center-IDE trial of activL in USA. Spine Days. February, 2018; Berlin, Germany.
324. Guyer RD, Zigler JE, Blumenthal SL, Ohnmeiss DD: Analysis of Lumbar Total Disc Replacement Removals/Revisions during a 17 Year Experience with 1,707 Patients. International Society for the Advancement of Spine Surgery. April, 2018; Toronto, Ontario, Canada.
325. Blumenthal SL: Seven Year Outcomes of Lumbar Total Disc Replacement Systems on Patient Lifestyle and Quality of Life. International Society for the Advancement of Spine Surgery. April, 2018; Toronto, Ontario, Canada.
326. Sasso R, Coric D, Phillips F, Guyer R, Blumenthal S, Zigler J, Sama A, Cammisa F, Albert T: M6-C Artificial Cervical Disc 24 Month Follow up: Clinical and Radiographic Outcomes from Five Investigational Centers Involved in a US FDA Approved IDE Study.

- International Society for the Advancement of Spine Surgery. April, 2018; Toronto, Ontario, Canada.
327. Blumenthal S, Zigler JE, Guyer RD, Ohnmeiss DD: Analysis of Lumbar Total Disc Replacement Removals/Revisions during a 17 Year Experience with 1,707 Patients. Global Spine Conference. April, 2018; Singapore.
 328. Blumenthal SL: Seven Year Outcomes of Lumbar Total Disc Replacement Systems on Patient Lifestyle and Quality of Life. Global Spine Conference. April, 2018; Singapore.
 329. Sasso R, Zigler J, Blumenthal S, Guyer R, Cammisa F, Albert T, Coric D: Prospective, Multi-center Study with 24-month Follow-up Evaluating the M6-C Cervical Total Disc Replacement. Spine Society of Australia. April, 2018; Adelaide, Australia.
 330. Zigler J, Blumenthal S, Guyer R, Ohnmeiss D: Analysis of Re-operations after Cervical Total Disc Replacement in a Consecutive Series of 504 Patients Receiving the ProDisc-C Device. Spine Society of Australia. April, 2018; Adelaide, Australia.
 331. Blumenthal S, Zigler J, Guyer R, Ohnmeiss D: Analysis of Lumbar Total Disc Replacement Removals and Revisions: A 17-Year Experience. Spine Society of Australia. April, 2018; Adelaide, Australia.
 332. Blumenthal S, Zigler J, Guyer R, Ohnmeiss D: Progression of Adjacent-level Degeneration after Lumbar Total Disc Replacement: Results of a Prospective Study with 5-year Follow-up. Spine Society of Australia. April, 2018; Adelaide, Australia.
 333. Aucoin J, Zigler J, Blumenthal S, Guyer R, Ohnmeiss D: Analysis of Re-operations after Cervical Total Disc Replacement in a Consecutive Series of 504 Patients Receiving the ProDisc-C Device. The State of Spine Surgery Think Tank. June, 2018; Aruba.
 334. Zigler JE, Gornet MF, Ferko N, Cameron C, Patel L: Blumenthal S, Guyer R Long-Term Outcomes of Lumbar Total Disc Replacement versus Spinal Fusion for the Treatment of DDD: A Novel Meta-Analysis of Randomized Controlled Trials. Spine Across the Sea. July-August, 2018; Kauai, Hawaii.
 335. Blumenthal S: Seven Year Outcomes of Lumbar Total Disc Replacement Systems on Patient Lifestyle and Quality of Life. Spine Across the Sea. July-August, 2018; Kauai, Hawaii.
 336. Blumenthal S, Zigler J, Guyer R, Ohnmeiss D: Analysis of Lumbar Total Disc Replacement Removals and Revisions: A 17-Year Experience. Spine Across the Sea. July-August, 2018; Kauai, Hawaii.
 337. Guyer R, Blumenthal S, Zigler J, Ohnmeiss D: Analysis of Lumbar Total Disc Replacement Removals and Revisions: A 17-Year Experience. Spine Across the Sea. July-August, 2018; Lihue, Hawaii.
 338. Guyer R, Ohnmeiss D, Blumenthal S, Zigler J: Analysis of Lumbar Total Disc Replacement Removals and Revisions: A 17-Year Experience. North American Spine Society. September, 2018; Los Angeles, California.
 339. Blumenthal S: Seven Year Outcomes of Lumbar Total Disc Replacement Systems on Patient Lifestyle and Quality of Life. North American Spine Society. September, 2018; Los Angeles, California.

340. Zigler JE, Blumenthal SL: Impact of Range of Motion on Patient Outcomes 5 Years Following Lumbar TDR at L5-S1. North American Spine Society. September, 2018; Los Angeles, California.
341. Zigler JE, Guyer RD, Blumenthal SL, Ohnmeiss DD: Analysis of Re-operations after Cervical Total Disc Replacement in a Consecutive Series of 504 Patients. North American Spine Society. September, 2018; Los Angeles, California.
342. Blumenthal SL, Guyer RD, Zigler JE: Impact of Range of Motion on Progression of Adjacent Segment Disease: Disc vs. Disc. North American Spine Society. September, 2018; Los Angeles, California.
343. Blumenthal SL: Annular Repair. Brussels Spine Symposium. November, 2018; Brussels, Belgium.
344. Blumenthal S, Hochschuler S, Derman P: Innovation at Texas Back Institute. MAZAMA Spine Summit. January, 2019; Winthrop, Washington.
345. Blumenthal S: L4/5 Degenerative Disc Disease in a 40 YO. Current Concepts in Spinal Disorders. February, 2019; Las Vegas, Nevada.
346. Blumenthal S: Annulus Repair After Discectomy. Current Concepts in Spinal Disorders. February, 2019; Las Vegas, Nevada.
347. Blumenthal SL: Indications for Cervical TDR (Instructional Course Lecture: Current State of Total Disc Replacement). American Academy of Orthopaedic Surgeons. March, 2019; Las Vegas, Nevada.
348. Blumenthal SL: Lumbar Disc Replacement Outcomes (Instructional Course Lecture: Current State of Total Disc Replacement). American Academy of Orthopaedic Surgeons. March, 2019; Las Vegas, Nevada.
349. Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Is Osteoporosis Screening Routinely Needed to Evaluate Cervical Total Disc Replacement Patients? International Society for the Advancement of Spine Surgery. April, 2019; Anaheim, California.
350. Zigler JE, Guyer RD, Blumenthal SL, Ohnmeiss DD: Analysis of Re-operations after Cervical Total Disc Replacement in a Consecutive Series of 504 Patients Receiving the ProDisc-C Device. International Society for the Advancement of Spine Surgery. April, 2019; Anaheim, California.
351. Guyer RD, Zigler JE, Blumenthal SL, Ohnmeiss DD: In Which Cases Do Surgeons Specializing in Total Disc Replacement Perform Fusion in Patients with Cervical Spine Symptoms. International Society for the Advancement of Spine Surgery. April, 2019; Anaheim, California.
352. Guyer RD, Blumenthal SL, Zigler JE, Ohnmeiss DD, Vovk A: Spike vs. Keel: Does Endplate Design of Lumbar Artificial Discs Affect Radiographic Outcomes? International Society for the Advancement of Spine Surgery. April, 2019; Anaheim, California.
353. Zigler JE, Guyer RD, Blumenthal SL, Ohnmeiss DD: Clinical Outcome of Cervical Hybrid Surgery Using a Stand-alone Device at the Fusion Level. International Society for the Advancement of Spine Surgery. April, 2019; Anaheim, California.

354. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE: In Which Cases Do Surgeons Specializing in Total Disc Replacement Perform Fusion in Patients with Symptomatic Lumbar Disc Degeneration? Spine Society of Australia. April, 2019; Queensland, Australia.
355. Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Is Osteoporosis Screening Routinely Needed to Evaluate Cervical Total Disc Replacement Patients? Spine Society of Australia. April, 2019; Queensland, Australia.
356. Blumenthal SL: Debate: Cervical Disc Replacement is Superior to Anterior Cervical Discectomy and Fusion – Con. Spine Society of Australia. April, 2019; Queensland, Australia.
357. Blumenthal SL: Keynote Speaker: Surgeon Credentialing: Reviewing a Case Where Things Went Wrong. Spine Society of Australia. April, 2019; Queensland, Australia.
358. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE: Impact of Previous Lumbar Spine Surgery on Outcome of Lumbar Total Disc Replacement: Analysis of Prospective 5-year Follow-up Study Data. International Society for the Study of the Lumbar Spine. June, 2019; Kyoto, Japan.
359. Guyer RD, Coric D, Phillips F, Sasso R, Sama A, Cammisa F, Blumenthal SL, Albert T, Zigler JE: Clinical and Radiographic Outcomes for a Next Generation Artificial Cervical Disc: Two-Year Follow-Up at Five Investigational Centers Participating in a US FDA Approved Study. Global Spine Congress. May, 2019; Toronto, Ontario, Canada.
360. Blumenthal SL, Ohnmeiss DD, Zigler JE, Guyer RD: Impact of Previous Lumbar Spine Surgery on Outcome of Lumbar Total Disc Replacement: Analysis of Prospective 5-year Follow-up Study Data. International Society for the Study of the Lumbar Spine. June, 2019; Kyoto, Japan.
361. Guyer RD, Blumenthal SL, Zigler JE, Shellock J, Phillips F, Coric D, Cammisa F, Sasso R: A novel compressible core artificial cervical disc compared to anterior cervical discectomy and fusion: 2 year clinical results. North American Spine Society. September, 2019; Chicago, Illinois.
362. Guyer RD, Ohnmeiss DD, Blumenthal SL, Zigler JE: In Which Cases Do Surgeons Specializing in Total Disc Replacement Perform Fusion in Patients with Cervical Spine Symptoms? North American Spine Society. September, 2019; Chicago, Illinois.
363. Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Is Osteoporosis Screening Routinely Needed to Evaluate Cervical Total Disc Replacement Patients? North American Spine Society. September, 2019; Chicago, Illinois.
364. Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Intraoperative Conversion of Cervical Total Disc Replacement to Fusion: Incidence and Reasons. North American Spine Society. September, 2019; Chicago, Illinois.
365. Guyer RD, Blumenthal SL, Zigler JE, Ohnmeiss DD: Impact of Previous Lumbar Spine Surgery on Outcome of Lumbar Total Disc Replacement: Analysis of Prospective Five-Year Follow-Up Study Data (presented in Best Papers Session). North American Spine Society. September, 2019; Chicago, Illinois.

366. Blumenthal SL: Reported Failures with Interspinous/Interlaminar Devices. Brussels International Spine Symposium. November, 2019; Brussels, Belgium.
367. Blumenthal SL: Texas Back Institute Update. Mazama Spine Summit. January, 2020; Winthrop, Washington.
368. Zigler JE, Guyer RD, Blumenthal SL, Ohnmeiss DD: Impact of Previous Lumbar Spine Surgery on Outcome of Lumbar Total Disc Replacement: Analysis of Prospective 5-year Follow-up Study Data. International Society for the Advancement of Spine Surgery. February, 2020; San Juan, Puerto Rico.
369. Guyer RD, Blumenthal SL, Beall, Wilson, Bishop, Tally, Temple, Ganey T, Ohnmeiss D: Clinical Investigation of the Safety and Preliminary Results of Cellularized Allograft Disc Matrix for the Treatment of Symptomatic Lumbar Disc Degeneration. International Society for the Advancement of Spine Surgery. February, 2020; San Juan, Puerto Rico.
370. Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Intra-operative Conversion of Cervical Total Disc Replacement to Fusion: Incidence and Reasons. International Society for the Advancement of Spine Surgery. February, 2020; San Juan, Puerto Rico.
371. Blumenthal SL, Radcliff K: Debate: Surgical Management of Lumbar Degenerative Disc Disease: Lumbar Total Disc Replacement. International Society for the Advancement of Spine Surgery. February, 2020; San Juan, Puerto Rico.
372. Blumenthal SL: Interspinous and Interlaminar Devices. Chinese Society for the Study of the Lumbar Spine. July, 2020 (virtual meeting based in Beijing, China)
373. Guyer RD, Blumenthal SL, Ohnmeiss DD, Ferko N, Bonner A, Situ A: Incidence and Resolution Strategies for Early Onset Postoperative Leg Pain Following Lumbar Total Disc Replacement. (Best Papers Session) North American Spine Society. October, 2020; San Diego, California.
374. Blumenthal SL, Kiridly D, Shellock SL, Guyer RD, Zigler JE, Ohnmeiss DD: Late Failure of Cervical Disc Arthroplasty Due to Osteolysis. International Society for the Advancement of Spine Surgery. May, 2021; Miami, Florida.
375. Blumenthal SL: Complications of TDR. Castellvi Spine. May, 2021; Key Largo, Florida.
376. Blumenthal SL: The World of Motion Beyond TDR. Castellvi Spine. May, 2021; Key Largo, Florida.
377. Blumenthal SL: Unique MIS Pedicle Fixation Technology. Mazama Spine Summit. July, 2021; Winthrop, Washington.
378. Blumenthal S, Kiridly D, Shellock J, Guyer R, Zigler J, Ohnmeiss D: Late Failure of Cervical Disc Arthroplasty Due to Osteolysis. Spine Society of Australia. November, 2021 (virtual meeting).
379. Blumenthal SL: BMP and ALIF. Spine Society of Australia. November, 2021 (virtual meeting).
380. Blumenthal S: Failed Disc Replacement. Brussels International Spine Symposium. November, 2021; Brussels, Belgium.

381. Blumenthal S: Adjacent Segment Disease. Brussels International Spine Symposium. November, 2021; Brussels, Belgium.
382. Blumenthal S: Failed Spine Surgeon: Dr. Death. Brussels International Spine Symposium. November, 2021; Brussels, Belgium.
383. Iyer S, Bovonratwet P, Samartzis D, Schoenfeld AJ, An HS, Awwad W, Blumenthal SL, Cheung JP, Derman P, El-Sharkawi M: Appropriate Telemedicine Utilization in Spine Surgery: Results From a Delphi Study. Lumbar Spine Research Society. April, 2022; Chicago, Illinois.
384. Blumenthal SL: Debate: L5/S1 DDD with Foraminal Stenosis: TDR Is Optimal. Lumbar Spine Research Society. April, 2022; Chicago, Illinois.
385. Guyer RD, Blumenthal SL, Zigler JE, Shellock JL, Ohnmeiss DD: Lumbar Total Disc Replacement Removals/Revisions during a 20 Year Experience with 1,775 Patients (best papers session). International Society for the Study of the Lumbar Spine. May, 2022; Boston, Massachusetts.
386. Guyer RD, Blumenthal SL, Zigler JE, Shellock JL, Ohnmeiss DD: Clinical Outcome of Lumbar Hybrid Surgery in a Consecutive Series of Patients with Long-term Follow-up. International Society for the Study of the Lumbar Spine. May, 2022; Boston, Massachusetts.
387. Iyer S, Bovonratwet P, Samartzis D, Schoenfeld AJ, An HS, Awwad W, Blumenthal SL, Cheung JP, Derman PB, El-Sharkawi M, Freedman BA, Hartl R, Kang JD, Kim HJ, Louie PK, Ludwig SC, Neva MH, Pham MH, Phillips FM, Qureshi SA, Radcliff KE, Riew KD, Sandhu HS, Sciubba DM, Sethi RK, Valacco M, Zaidi HA, Zygorakis CC, Makhni MC: Appropriate Telemedicine Utilization in Spine Surgery: Results From a Delphi Study. International Society for the Study of the Lumbar Spine. May, 2022; Boston, Massachusetts.
388. Blumenthal SL: Presidential Address. International Society for the Study of the Lumbar Spine. May, 2022; Boston, Massachusetts.
389. Blumenthal SL: Introduction and Overview. Symposium: Cervical TDR Complications. International Society for the Advancement of Spine Surgery. June, 2022; Bahamas.
390. Blumenthal SL: Revision Strategies: Symposium: Cervical TDR Complications. International Society for the Advancement of Spine Surgery. June, 2022; Bahamas.
391. Guyer RD, Blumenthal SL, Zigler JE, Shellock JL, Ohnmeiss DD: Lumbar Total Disc Replacement Removals/Revisions during a 20 Year Experience with 1,775 Patients (best papers session). North American Spine Society. October, 2022; Chicago, Illinois.
392. Guyer RD, Blumenthal SL, Zigler JE, Shellock JL, Ohnmeiss DD: Clinical Outcome of Lumbar Hybrid Surgery in a Consecutive Series of Patients with Long-term Follow-up (best papers session). North American Spine Society. October, 2022; Chicago, Illinois.
393. Blumenthal SL, Guyer RD, Shellock JL, Zigler JE, Ohnmeiss DD: Lumbar Total Disc Replacement for the Treatment of Adjacent Segment Degeneration after Lumbar Fusion. North American Spine Society. October, 2022; Chicago, Illinois.

394. Blumenthal SL: Introduction and Indications. Symposium: Cervical Total Disc Replacement 2.0: When Do Things Go Wrong. North American Spine Society. October, 2022; Chicago, Illinois.
395. Griffin C, Blumenthal SL, Zigler JE, Guyer RD, Shellock JL, Ohnmeiss DD, Satin A: Revisions and Removals of Cervical Total Disc Replacement Devices in a Single Institution Consecutive Series of 1,473 Patients Beginning with the First Case Experience in 2003. Cervical Spine Research Society. November, 2022; San Diego, California.
396. Blumenthal SL: What the Epidural Steroid Cost Effectiveness Studies Tell Us. Brussels International Spine Symposium. November, 2022; Brussels, Belgium.
397. Blumenthal SL: Total Disc Replacement, Finally a Panacea? Brussels International Spine Symposium. November, 2022; Brussels, Belgium.
398. Blumenthal SL, Guyer RD, Griffin C, Zigler JE, Shellock JL, Ohnmeiss DD, Courtois EC: Removals and Revisions of Cervical Total Disc Replacement Devices in a Consecutive Series of 1,473 Patients Beginning with the First Case Experience in 2003. SpineWeek (North American Spine Society section). May, 2023; Melbourne, Australia.
399. Blumenthal SL: Lumbar Fusion (part of NASS symposium: Procedural Management of Low Back Pain. SpineWeek. May, 2023; Melbourne, Australia.
400. Blumenthal SL: Role of BMP in ALIF. (part of SMISS symposium: Procedural Management of Low Back Pain. SpineWeek. May, 2023; Melbourne, Australia.
401. Blumenthal SL: Hybrid ACDF, CDR Outcomes and Indications. Part of symposium: Cervical Disc Replacement – Pushing the Indications. International Society for the Advancement of Spine Surgery. June, 2023, San Francisco, California.
402. Blumenthal SL: Spine Surgery Complications Competition. Pittsburgh Spine Summit. August, 2023; Pittsburgh, Pennsylvania.
403. Blumenthal SL: The First Series of Revision for Cervical Arthroplasty. Spine Surgery Complications Competition. Pittsburgh Spine Summit. August, 2023; Pittsburgh, Pennsylvania.
404. Blumenthal SL: Revision Cervical Arthroplasty. International Society for the Advancement of Spine Surgery – Asia Pacific Section. August, 2023, Seoul, South Korea.
405. Zigler JE, Shellock JL, Guyer RD, Blumenthal SL, Ohnmeiss DD: Outcome of 2-level Lumbar Total Disc Replacement: Results of a Long-term Follow-up Study. International Society for the Advancement of Spine Surgery. June, 2023, San Francisco, California.
406. Blumenthal SL, Griffin C, Courtois EC, Guyer RD, Zigler JE, Shellock JL, Ohnmeiss DD: Incidence of Implant Removal or Revision Surgery after Cervical Total Disc Replacement in a Consecutive Series of 1,615 Patients Beginning with the First Case Experience in 2003. International Society for the Advancement of Spine Surgery. June, 2023, San Francisco, California.
407. Zigler JE, Shellock JL, Guyer RD, Blumenthal SL, Ohnmeiss DD: Outcome of 2-level Lumbar Total Disc Replacement: Results of a Long-term Follow-up Study. North American Spine Society. October, 2023; Los Angeles, California.

408. Blumenthal SL, Guyer RD, Zigler JE, Shellock JL, Ohnmeiss DD: Long-term Outcome of Lumbar Total Disc Replacement: Impact of Prior Spine Surgery. North American Spine Society. October, 2023; Los Angeles, California.
409. Blumenthal SL: Revision Cervical Arthroplasty. Spine Arthroplasty Summit. November, 2023; Los Angeles, California.
410. Blumenthal SL: Cervical TDR Works as Well for Spondylosis as HNP. Brussels International Spine Symposium. November, 2023; Brussels, Belgium.
411. Blumenthal SL: Degenerative Scoliosis by the Non-scoliosis Surgeon: Limited Fusion as an Alternative to Fusing the Whole Curve. Brussels International Spine Symposium. November, 2023; Brussels, Belgium.
412. Guyer RD, Courtois EC, Ohnmeiss DD, Blumenthal SL, Shellock JL, Zigler JE,: Effect of Lumbar Total Disc Replacement on Sagittal Alignment. Spine Society of Australia. April, 2024; Sydney, Australia.
413. Blumenthal SL, Ohnmeiss DD, Courtois EC, Guyer RD, Shellock JE, Zigler JE: Strategies for Addressing Failed Cervical Total Disc Replacement: A Series of 42 Patients. Spine Society of Australia. April, 2024; Sydney, Australia.
414. Guyer RD, Blumenthal SL, Zigler JE, Shellock JL, Ohnmeiss DD: Clinical Outcome of Lumbar Total Disc Replacement in Patients More Than 60 Years of Age. Spine Society of Australia. April, 2024; Sydney, Australia.
415. Guyer RD, Ohnmeiss DD, Blumenthal SL, Courtois EC, Shellock JL, Zigler JE: Relationship of Discography to Re-Operation for Disc-Related Pain More Than 10 Years after Lumbar Total Disc Replacement. Spine Society of Australia. April, 2024; Sydney, Australia.
416. Blumenthal SL, Guyer RG, Zigler JE, Shellock SL, Ohnmeiss DD: Impact of Prior Lumbar Spine Surgery on the Long-term Outcome of Lumbar Total Disc Replacement. International Society for the Advancement of Spine Surgery. April, 2024; Miami, Florida.
417. Guyer RD, Blumenthal SL, Shellock JL, Zigler JE, Ohnmeiss DD: What Happened to Patients Who Received the Charite Lumbar Artificial Disc? International Society for the Advancement of Spine Surgery. April, 2024; Miami, Florida.
418. Guyer RD, Zigler JE, Blumenthal SL, Shellock JL, Ohnmeiss DD: Clinical Outcome of Lumbar Total Disc Replacement in Patients More Than 60 Years of Age. International Society for the Advancement of Spine Surgery. April, 2024; Miami, Florida.
419. Ohnmeiss DD, Courtois EC, Guyer RD, Blumenthal SL, Shellock JS, Zigler JE: Relationship of Discography to Re-Operation for Disc-Related Pain More Than 10 Years after Lumbar Total Disc Replacement. International Society for the Advancement of Spine Surgery. April, 2024; Miami, Florida.
420. Guyer RD, Blumenthal SL, Shellock JL, Zigler JE, Ohnmeiss DD: What Happened to Patients Who Received the Charite Lumbar Artificial Disc? International Society for the Study of the Lumbar Spine. May, 2024; Milan, Italy.
421. Blumenthal SL: Keynote: Revision Cervical Arthroplasty. MAZAMA Spine Summit. June, 2024; Winthrop, Washington.

422. Blumenthal SL: Cervical Arthroplasty. MAZAMA Spine Summit. June, 2024; Winthrop, Washington.
423. Guyer RD, Blumenthal SL, Shellock JL, Zigler JE, Ohnmeiss DD: What Happened to Patients Who Received the Charite Lumbar Artificial Disc? Spine Across the Sea. July, 2024; Kauai, Hawaii.
424. Ohnmeiss DD, Guyer RD, Blumenthal SL, Courtois EC, Shellock JS, Zigler JE: Relationship of Discography to Re-Operation for Disc-Related Pain More Than 10 Years after Lumbar Total Disc Replacement. Spine Across the Sea. July, 2024; Kauai, Hawaii.
425. Blumenthal SL, Guyer RG, Zigler JE, Shellock SL, Ohnmeiss DD: Long-term Outcome of Lumbar Total Disc Replacement: Impact of Prior Spine Surgery. Spine Across the Sea. July, 2024; Kauai, Hawaii.
426. Blumenthal SL, Ohnmeiss DD, Courtois EC, Guyer RD, Shellock JE, Zigler JE: Strategies for Addressing Failed Cervical Total Disc Replacement: A Series of 42 Patients. Spine Across the Sea. July, 2024; Kauai, Hawaii.
427. Liu S, Ohnmeiss D, Samartzis D, Hall DJ, Guyer R, Satin A, Blumenthal S, Pourzal R: Hyperspectral Chemical Imaging Reveals Spatially Varied Degradation of Artificial Nucleus From M6-C Cervical Disc. International Society for Technology in Arthroplasty. August, 2024; Nashville, Tennessee.
428. Satin AM, Shenker T, Guyer RD, Blumenthal S, Zigler J, Shellock J, Derman PB, Ohnmeiss DD, Rogers-LaVanne MP: Cervical Disc Arthroplasty for the Treatment of Adjacent Segment Disease after Anterior Cervical Discectomy and Fusion. Society for Minimally Invasive Spine Surgery. September, 2024; Las Vegas, Nevada.
429. Ohnmeiss DD, Courtois EC, Guyer RD, Blumenthal SL, Shellock JS, Zigler JE: Relationship of Discography to Re-Operation for Disc-Related Pain More Than 10 Years after Lumbar Total Disc Replacement. North American Spine Society. September, 2024; Chicago, Illinois.
430. Satin AM, Schenk T, Guyer RD, Blumenthal S, Zigler J, Shellock J, Derman PB, Ohnmeiss DD, Rogers-LaVanne MP: Cervical Disc Arthroplasty for the Treatment of Adjacent Segment Disease after Anterior Cervical Discectomy and Fusion. North American Spine Society. September, 2024; Chicago, Illinois.
431. Blumenthal SL: Cervical TDR: Expanded Indications: Beyond the Bounds of IDE Trials (part of symposium on Cervical and Lumbar Total Disc Replacement: Expanding Indications – and When Not To). North American Spine Society. September, 2024; Chicago, Illinois.
432. Blumenthal S: Update on Cervical TDR Revision Strategies. Seattle Science Foundation Advances in Motion Preservation of the Spine. October, 2024; Seattle, Washington.
433. Blumenthal S: 15-year data on Cervical TDR-US. Seattle Science Foundation Advances in Motion Preservation of the Spine. October, 2024; Seattle, Washington.
434. Guyer RD: When to Say "No" to Surgery and Goals and Principals of Spine Surgery. Brussels International Spine Symposium. November, 2024; Brussels, Belgium.

435. Guyer RD: Lumbar Total Disc Replacement Complications. Brussels International Spine Symposium. November, 2024; Brussels, Belgium.
436. Guyer RD: Adjacent Level Degeneration: Fact or Fiction? Brussels International Spine Symposium. November, 2024; Brussels, Belgium.
437. Blumenthal SL: Cervical Total Disc Replacement Complications. Brussels International Spine Symposium. November, 2024; Brussels, Belgium.
438. Blumenthal SL: Measuring Outcomes. Brussels International Spine Symposium. November, 2024; Brussels, Belgium.
439. Blumenthal SL: Lumbar Disc Replacement: Evidence for Low Back Pain. Selby Spine Conference. January-February, 2025; Park City, Utah.
440. Blumenthal SL: Cervical Disc Replacement for Spondylosis Without Radiculopathy. Selby Spine Conference. January-February, 2025; Park City, Utah
441. Blumenthal SL: Cervical Arthroplasty for Myelopathy. Selby Spine Conference. January-February, 2025; Park City, Utah.
442. Blumenthal SL: Revision of Cervical TDR. Selby Spine Conference. January-February, 2025; Park City, Utah.
443. Blumenthal SL: History and Future Perspectives on Motion Preservation Spinal Surgery. Bass Symposium: Emerging Technologies and Practices in Spine Surgery. February, 2025; Dallas, Texas.
444. Blumenthal S, Guyer R, Ohnmeiss D, Courtois E, Shellock J, Zigler J: Relationship of Discographic Injection Results to Subsequent Surgery in the Lumbar Spine with Minimum 10 Year Follow-Up. Spine Society of Australia. April, 2025; Perth, Australia.
445. Blumenthal S, Guyer R, Courtois E, Zigler J, Shellock J, Ohnmeiss D: Incidence of New Onset Leg Pain Following Anterior Approach Lumbar Surgery. Spine Society of Australia. April, 2025; Perth, Australia.
446. Ohnmeiss DD, Courtois EC, Guyer RD, Blumenthal SL, Shellock JL, Zigler JE: Relationship of Discographic Injection Results to Subsequent Surgery in the Lumbar Spine with Minimum 10 Year Follow-Up (Best Papers Session). International Society for the Advancement of Spine Surgery. April, 2025; Miami, Florida.
447. Blumenthal SL, Gill K, Courtois EC, Ohnmeiss DD: Re-operation for Osteolysis after Cervical Total Disc Replacement. International Society for the Advancement of Spine Surgery. April, 2025; Miami, Florida.
448. Guyer RD, Blumenthal SL, Wilson BA, Zigler JE, Shellock JL, Ohnmeiss DD: Outcomes of Lumbar Total Disc Replacement in Patients With Multiple Previous Discectomies. International Society for the Advancement of Spine Surgery. April, 2025; Miami, Florida.
449. Ohnmeiss D, Courtois E, Guyer R, Blumenthal S, Shellock J, Zigler J: Relationship of Discographic Injection Results to Subsequent Surgery in the Lumbar Spine with Minimum 10 Year Follow-Up. International Society for the Study of the Lumbar Spine. May, 2025; Atlanta, Georgia.

450. Guyer R, Blumenthal S, Courtois E, Zigler J, Shellock J, Ohnmeiss D: Incidence of New Onset Leg Pain Following Anterior Approach Lumbar Surgery. International Society for the Study of the Lumbar Spine. May, 2025; Atlanta, Georgia.
451. Guyer R, Blumenthal S, Courtois E, Shellock J, Zigler J, Ohnmeiss D: Changes in Sagittal Alignment Following Lumbar Total Disc Replacement: Analysis Based on Full-Body EOS Imaging of 132 Patients. International Society for the Study of the Lumbar Spine. May, 2025; Atlanta, Georgia.
452. Blumenthal SL: Rationale and Literature for Cervical TDR (part of symposium: Update on Cervical Total Disc Replacement (TDR)). Global Spine Congress. May, 2025; Rio de Janeiro, Brazil.
453. Blumenthal SL: Cervical TDR in 10 Years - Incidence and Treatment Strategies for Revisions. Brussels International Spine Symposium. November, 2025; Antwerp, Belgium.
454. Blumenthal SL: C. Acnes: Is It Pathogenic or Just Along for the Ride? Brussels International Spine Symposium. November, 2025; Antwerp, Belgium.

POSTERS

1. Lumbar Scheuermann's: A Clinical Series and Classification. International Society for the Study of the Lumbar Spine. May-June, 1986; Dallas, Texas.
2. Bone Mineral Content of the Lumbar Spine and Its Relationship to the Rate of Posterior Spinal Fusion. International Society for the Study of the Lumbar Spine. May, 1987; Rome, Italy.
3. Focal Myositis: An Unusual Presentation of Lumbar Disc Disease. International Society for the Study of the Lumbar Spine. May, 1987; Rome, Italy.
4. Bone Mineral Content of the Lumbar Spine and Its Relationship to the Rate of Posterior Spinal Fusion. North American Spine Society. June, 1987; Banff, Alberta.
5. Focal Myositis: An Unusual Presentation of Lumbar Disc Disease. North American Spine Society. June, 1987; Banff, Alberta.
6. Blumenthal SL, Gill K: Complications of Wiltse Pedicle Fixation. SRS/NASS Advanced Pedicle Fixation course. March, 1990; Dallas, Texas.
7. The Effects of Cold Therapy to Pain Parameters in Lumbar Surgical Patients. International Society for the Study of the Lumbar Spine. April, 1998; Bal Harbour, Florida.
8. Multi-Level Lumbar Spine Fractures. American Spinal Injury Association. May, 1998; San Diego, California.
9. Blumenthal SL, Gill K, Henderson R, Selby D: The Early Complications of the Wiltse Pedicular Instrumentation System. North American Spine Society. June, 1989; Quebec City, Canada.

10. Blumenthal SL, Gill K, Henderson R, Selby D: The Early Complications of the Wiltse Pedicular Instrumentation System. International Society for the Study of the Lumbar Spine. May, 1989; Kyoto, Japan.
11. A Comparison of Lumbar Prevertebral Vascular Anatomy in Patients with and Without Lumbosacral Transitional Vertebrae (LSTV). North American Spine Society. July, 1992; Boston, Massachusetts.
12. Jarolem K, Ohnmeiss DD, Fulp T, Blumenthal SL: Unilateral PLIF/PLF Supplemented with Unilateral Fixation. Schriners Fellow Conference. November, 1995; New Orleans, Louisiana.
13. Jarolem K, Ohnmeiss DD, Fulp T, Blumenthal SL: Results of Combined Posterior Interbody Fusion with Unilateral Posterolateral Fusion Supplemented with Unilateral Fixation. International Society for the Study of the Lumbar Spine. June, 1996; Burlington, Vermont.
14. Araghi A, Guyer RD, Fulp RT, Ohnmeiss DD, Blumenthal SL, Hochschuler SH, Regan JJ, Shelokov AP, Rashbaum RF: Use of Morphine Paste for Pain Control in Lumbar Laminectomies. Spine + Science + Management; November, 1996; New Orleans, Louisiana.
15. Regan JJ, Mack M, Aronoff RJ, Guyer, RD, Blumenthal, SL, Ahrens JE, Ohnmeiss DD: Development of Video-Assisted Thoracoscopic Spine Surgery. (Scientific Exhibit) at the American Academy of Orthopaedic Surgeons. February, 1997; San Francisco, California.
16. Araghi A, Guyer RD, Fulp RT, Ohnmeiss DD, Blumenthal SL, Hochschuler SH, Regan JJ, Shelokov AP, Zigler JE, Rashbaum RF: Use of Morphine Paste for Pain Control in Lumbar Laminectomies. International Society for the Study of the Lumbar Spine. June, 1997; Singapore.
17. Hyde J, Ohnmeiss DD, Rinn C, Guyer RD, Rashbaum RF, Blumenthal SL, Zigler JE, Regan JJ, Fulp T: Anterior Cervical Fusion: Factors Related to Outcome. Spine + Science + Management; November, 1997; New Orleans, Louisiana.
18. Massoud B, Ohnmeiss DD, Rinn C, Guyer RD, Hochschuler SH, Rashbaum RF, Blumenthal SL, Zigler JE, Regan JJ, Fulp T: Results of Hardware Removal in the Lumbar Spine and the Role of Diagnostic Hardware Injection. Spine + Science + Management; November, 1997; New Orleans, Louisiana.
19. Massoud B, Ohnmeiss DD, Rinn C, Guyer RD, Hochschuler SH, Rashbaum RF, Blumenthal SL, Zigler JE, Regan JJ, Fulp T: Results of Hardware Removal in the Lumbar Spine and the Role of Diagnostic Hardware Injection. North American Spine Society. October, 1998; San Francisco, California.
20. Blumenthal SL, Simpson N, Boehler S, Ohnmeiss DD, Risk DE: Anterior Lumbar Interbody Fusion Using Threaded Fusion Cages. North American Spine Society. October, 1998; San Francisco, California.
21. Blumenthal SL, Simpson NS, Ohnmeiss DD, Risk DE, Boehler S, Guyer RD, Zigler JE, Fulp T, Hochschuler SH: Anterior Lumbar Interbody Fusion with Threaded Fusion Cages. International Society for the Study of the Lumbar Spine. June, 1999; Kona, Hawaii.

22. Blumenthal SL, Regan JJ, Hisey MS, Ohnmeiss DD, Guyer RD, Hochschuler SH, Zigler JE: Can Threaded Fusion Cages Be Used Effectively As Stand-Alone Devices? North American Spine Society. October, 1999; Chicago, Illinois.
23. Ohnmeiss DD, Blumenthal SL, Guyer RD, Zigler JE, Hochschuler SH: Analysis of Threaded Fusion Cage Subsidence. North American Spine Society. October, 1999; Chicago, Illinois.
24. Blumenthal SL, Hisey MS, Ohnmeiss DD, Regan JJ, Guyer RD, Hochschuler SH, Zigler JE: Can Threaded Fusion Cages Be Used Effectively as Stand-Alone Devices? International Society for the Study of the Lumbar Spine. April, 2000; Adelaide, Australia.
25. Ohnmeiss DD, Blumenthal SL, Guyer RD, Zigler JE, Hochschuler SH: Analysis of Threaded Fusion Cage Subsidence. International Society for the Study of the Lumbar Spine. April, 2000; Adelaide, Australia.
26. Ohnmeiss DD, Blumenthal SL, Guyer RD, Hochschuler SH, Zigler JE: Can Foraminal Height be Increased and Maintained with Anterior Lumbar Interbody Fusion Using Cages? International Society for the Study of the Lumbar Spine. April, 2000; Adelaide, Australia.
27. Ohnmeiss DD, Blumenthal SL, Guyer RD, Hochschuler SH, Zigler JE: Can Foraminal Height be Increased and Maintained with Anterior Lumbar Interbody Fusion Using Cages? Spine Across the Sea. July, 2000; Kona, Hawaii.
28. Blumenthal SL, Hisey MS, Ohnmeiss DD, Regan JJ, Guyer RD, Hochschuler SH, Zigler JE: Can Threaded Fusion Cages Be Used Effectively as Stand-Alone Devices? Spine Across the Sea. July, 2000; Kona, Hawaii.
29. Ohnmeiss DD, Blumenthal SL, Guyer RD, Zigler JE, Hochschuler SH: Analysis of Threaded Fusion Cage Subsidence. Spine Across the Sea. July, 2000; Kona, Hawaii.
30. Burton DC, Ohnmeiss DD, Blumenthal SL, Rashbaum RF, Zigler JE, Guyer RD, Regan JJ: Anterior Cervical Discectomy and Fusion with Allograft Bone and Plate Fixation. North American Spine Society. October, 2000; New Orleans, Louisiana.
31. Regan JJ, Ohnmeiss DD, Hochschuler SH, Blumenthal SL, Guyer RD: Comparison of Laparoscopic to Mini-open Fusion at the L4-5 Level. International Society for the Study of the Lumbar Spine. June, 2001; Edinburgh, Scotland.
32. Guyer RD, McAfee PC, Hochschuler SH, Blumenthal SL, Fedder I, Ohnmeiss DD: Prospective Evaluation of the SB Charité III Disc Prosthesis. North American Spine Society. November, 2001; Seattle, Washington.
33. Tran V, Ohnmeiss DD, Blumenthal SL, Chang Y, Guyer RD, Zigler JE, Hochschuler SH, Hisey MS: Analysis of Re-Operations When Using Cages as Stand-Alone Devices: Minimum Three Year Follow-Up Study. Spine + Science + Management; November, 2001; New Orleans, Louisiana.
34. Henry S, Ohnmeiss DD, Guyer RD, Zigler JE, Chang Y, Rashbaum RF, Blumenthal SL: Outcome of Anterior Cervical Fusion for Discographically Proven Pain. Spine + Science + Management. November, 2001; New Orleans, Louisiana.
35. Tran V, Ohnmeiss DD, Blumenthal SL, Chang Y, Guyer RD, Zigler JE, Hochschuler SH, Hisey MS, Rashbaum RF: Analysis of Re-Operations When Using Cages as Stand-Alone

- Devices: Minimum Three Year Follow-Up Study. Meeting of the Americas. April, 2002; New York, New York.
36. Henry S, Ohnmeiss DD, Guyer RD, Zigler JE, Chang Y, Rashbaum RF, Blumenthal SL: Outcome of Anterior Cervical Fusion for Discographically Proven Pain. American Spinal Injury Association and the IMSOP joint conference. May, 2002; Vancouver, Canada.
 37. Tran V, Ohnmeiss DD, Blumenthal SL, Chang Y, Guyer RD, Zigler JE, Hochschuler SH, Hisey MS, Rashbaum RF: Analysis of Re-Operations When Using Cages as Stand-Alone Devices: Minimum Three Year Follow-Up Study. American Spinal Injury Association and the IMSOP joint conference. May, 2002; Vancouver, Canada.
 38. Henry S, Ohnmeiss DD, Guyer RD, Zigler JE, Chang Y, Rashbaum RF, Blumenthal SL: Outcome of Anterior Cervical Fusion for Discographically Proven Pain. American Academy of Orthopaedic Surgeons. February, 2003; New Orleans, Louisiana.
 39. Ohnmeiss DD, Hochschuler SH, Guyer RD, Rashbaum RF, Blumenthal SL: Sleep Disturbances in Back Pain Patients. International Society for the Study of the Lumbar Spine. May, 2003; Vancouver, Canada
 40. Blumenthal SL, Guyer RD, Hochschuler SH, Ohnmeiss DD: Prospective Outcome Evaluation of a Total Disc Replacement. International Society for the Study of the Lumbar Spine. May, 2003; Vancouver, Canada.
 41. Guyer RD, Henry S, Ohnmeiss DD, Zigler JE, Chang Y, Rashbaum RF, Blumenthal SL: Outcome of Anterior Cervical Fusion for Cervical Discogenic Pain with Confirmatory Discography. Cervical Spine Research Society. December, 2003; Scottsdale, Arizona.
 42. Hochschuler SH, Whitaker C, Zigler JE, Guyer RD, Sachs BL, Blumenthal SL, Rashbaum RF, Ohnmeiss DD: Comparison of Return to Work Following Total Disc Arthroplasty vs. Fusion: A Prospective, Randomized Study. Spinal Arthroplasty Society. May, 2004; Vienna, Austria.
 43. Gottlieb J, Sachs B, Guyer R, Zigler J, Rashbaum R, Hochschuler S, Blumenthal S, Ohnmeiss D: Comparison of Complications Associated with Lumbar Artificial Disc Replacement versus Fusion at 2 Year Follow-up. International Society for the Study of the Lumbar Spine. June, 2004; Porto, Portugal.
 44. Blumenthal S, McAfee P, Guyer R, Hochschuler S, Garcia R, Regan J, Ohnmeiss D: Randomized Controlled Trial of the Charité Artificial Disc vs. Fusion for Single-Level Degenerative Disc Disease: A Two-Year Follow-up Study. International Society for the Study of the Lumbar Spine. June, 2004; Porto, Portugal.
 45. Regan J, McAfee PC, Guyer RD, Blumenthal S, Geisler F: Charite Artificial Disc Replacement Evaluation of the Learning Curve and Complications in a Multicenter Prospective Randomized Controlled FDA IDE Trial. North American Spine Society. October, 2004; Chicago, Illinois.
 46. Blumenthal SL: Total Disc Replacement. Spinal Arthroplasty Society. May, 2005; New York, New York.

47. Lhamby J, Guyer R, Zigler J, Blumenthal S, Sachs B, Hochschuler S, Rashbaum R, Ohnmeiss D: Patients Undergoing Total Disc Replacement with Spinal Fusion at Different Lumbar Levels. Spine Arthroplasty Society. May, 2006; Montreal, Canada.
48. Ohnmeiss DD, Blumenthal SL, Guyer RD, Hochschuler SH: Analysis of Change in Outcome Measures at Various Follow-Up Periods: Data from a Prospective Trial. Spine Arthroplasty Society. May, 2006; Montreal, Canada.
49. Siddiqui S, Guyer R, Zigler J, Ohnmeiss D, Blumenthal S, Sachs B, Hochschuler S, Rashbaum R: Factors Related to the 20 Best and 20 Worst 24-month Outcomes of Total Disc Replacement in Prospective Trials. International Society for the Study of the Lumbar Spine. June, 2006; Bergen, Norway.
50. Guyer R, Blumenthal S, Geisler R, McAfee P, J Regan J: The First Year Following FDA Approval of the Charite Artificial Disc: “Real World” Adverse Events Outside an IDE Study Environment. International Society for the Study of the Lumbar Spine. June, 2006; Bergen, Norway.
51. Blumenthal SL, Guyer RD, Geisler FH, McAfee PC: One-Level Lumbar Arthroplasty in Patients 18-45 Years of Age vs. Patients 46-60 Years of Age: Is There a Difference in Clinical Outcome? International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
52. Blumenthal SL, Ohnmeiss DD, Lhamby JL, Hochschuler SH, Zigler JE, Guyer RD, Sachs BL, Rashbaum RF: Patients Undergoing Total Disc Replacement with Spinal Fusion at Different Lumbar Levels. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
53. Hochschuler SH, Ohnmeiss DD, Blumenthal SL, Guyer RD: Results of Two-Level Total Disc Replacement Using CHARITÉ Artificial Disc. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
54. Ohnmeiss DD, Hochschuler SH, Blumenthal SL, Guyer RD: Analysis of Change in Outcome Measures at Various Follow-Up Periods: Data from a Prospective Trial. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
55. McAfee PC, Geisler FH, Blumenthal SL, Guyer RD, Regan J, Stadlan N, Dabbah M, Siddiqui F, Hayes V, Ohnmeiss DD: Predicted 5-year Survivorship of the CHARITÉ Artificial Disc vs. Anterior Lumbar Interbody Fusion: A Kaplan-Meyer Analysis. International Meeting on Advanced Spine Techniques (IMAST). July, 2006; Athens, Greece.
56. Blumenthal SL, Guyer RD, Geisler FH, McAfee PC, Regan JJ. The First Year Following FDA Approval of the Charité Artificial Disc: “Real World” Adverse Events Outside an IDE Study Environment. North American Spine Society. September, 2006; Seattle, Washington.

57. Guyer RD, Banco RJ, Bitan FD, Blumenthal SL, Cappuccino A, Geisler FH, Hochschuler SH, Holt RT, Jenis, MD, Majd ME, McAfee PC, Mullin BB, Regan JJ, Stadlan N, Tromanhauser SG, Wong D. Lumbar Arthroplasty vs. Anterior Interbody Fusion at One-Level: Clinical Results at 5-Year Follow-Up from the IDE Study of the Charité Artificial Disc. North American Spine Society. September, 2006; Seattle, Washington.
58. Lhamby J, Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD, Sachs BL, Hochschuler SH, Rashbaum RF. Patients Undergoing Total Disc Replacement with Spinal Fusion at Different Lumbar Levels. North American Spine Society. September, 2006; Seattle, Washington.
59. Geisler FH, Guyer RD, Blumenthal SL, McAfee PC, Cappuccino A, Bitan F, Regan JJ: Patient Selection for Lumbar Arthroplasty and Arthrodesis: The Crossover Effect in a Controlled, Multi-Center, Randomized Study. Congress of Neurological Surgeons/American Association of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves. April, 2007; Washington, D.C.
60. Blumenthal SB, Zigler JE, Guyer RD, Ohnmeiss DD: Comparison of Charite vs. ProDisc for the Treatment of Single-level Symptomatic Disc Degeneration: Prospective Data from One Center. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
61. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: A Prospective Randomized Study Comparing Two Lumbar Total Disc Replacement Devices. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
62. Rohan MX, Ohnmeiss DD, Guyer RD, Zigler JE, Blumenthal SL, Hochschuler SH, Sachs BL, Rashbaum RF: Relationship between the Length of Time Off Work Pre-operatively and Clinical Outcome at 24-month Follow-up. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
63. Guyer RD, Blumenthal SL, Geisler FH, McAfee PC: The Effect of Age on Outcomes in Patients with One-level Arthroplasty. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
64. Geisler FH, Guyer RD, Blumenthal SL, McAfee PC, Cappuccino A, Bitan F, Regan JJ: Patient Selection for Lumbar Arthroplasty and Arthrodesis: The Crossover Effect in a Controlled, Multi-Center, Randomized Study. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
65. McAfee PC, Cunningham B, Geisler FH, Guyer RD, Regan JJ, Blumenthal SL, Cappuccino A: Correlation of the Global Range of Motion (L3 to S1) between In Vitro Bench Top ROM and Clinical ROM from the Charite Artificial Disc FDA Level I Data. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
66. Lorenz M, Zindrick M, Radebaugh M, Blumenthal SL: Novel Artificial Cervical Disc Arthroplasty – Chronic Sheep Study, Six-Month Results. Spine Arthroplasty Society. May, 2007; Berlin, Germany.
67. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: A Prospective Randomized Study Comparing Two Lumbar Total Disc Replacement Devices. International Society for the Study of the Lumbar Spine. June, 2007; Hong Kong, China.

68. Blumenthal SL, Zigler JE, Guyer RD, Ohnmeiss DD: Similarities and Differences in Clinical and Radiographic Outcomes of Two US IDE Trials for Lumbar Disc Replacement. International Society for the Study of the Lumbar Spine. June, 2007; Hong Kong, China.
69. Rohan MX, Ohnmeiss DD, Guyer RD, Zigler JE, Blumenthal SL, Hochschuler SH, Sachs BL, Rashbaum RF: Relationship between the Length of Time Off Work Pre-operatively and Clinical Outcome at 24-month Follow-up. North American Spine Society. October, 2007; Austin, Texas.
70. Guyer RD, Blumenthal SL, Hochschuler SH, Ohnmeiss DD: A Prospective Randomized Study Comparing Two Lumbar Total Disc Replacement Devices. North American Spine Society. October, 2007; Austin, Texas.
71. Ohnmeiss D, Guyer R, Blumenthal S, Hochschuler S: Analysis Of Total Disc Replacement Data With Respect To Published MCID (Minimal Clinically Important Difference) Values. North American Spine Society. October, 2007; Austin, Texas.
72. McAfee PC, Cunningham BW, Geisler F, Guyer RD, Blumenthal SL, Cappuccino A, Regan JJ: A Comparison of In Vivo and In Vitro Range of Motion Distribution Following One-Level Lumbar Arthroplasty —2 to 5 year Radiographic Follow up of 375 Consecutive Patients Enrolled in the CHARITÉ Artificial Disc FDA Level I Pivotal Trial. North American Spine Society. October, 2007; Austin, Texas.
73. Guyer R, Laurysen C, Blumenthal S: Cervical Total Disc Replacement: A Prospective Randomized Comparison to Fusion. Asia Pacific Spine Arthroplasty Society. January, 2008; Seoul, South Korea.
74. Geisler FH, Guyer RD, McAfee PC, Regan JJ, Blumenthal SL, Majd ME, Holt RT, Banco RJ: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Effect at 5-year Follow-up of Prior Discectomy on Clinical Outcomes Following Lumbar Arthroplasty. Congress of Neurological Surgeons/American Association of Neurological Surgeons. February, 2008; Orlando, Florida.
75. Regan JJ, Geisler FH, Majd ME, Blumenthal SL, Holt RT, Jenis LG, Banco RJ: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ™ Artificial Disc vs. Lumbar Fusion: Comparison of the Clinical Outcome of Patients Implanted at L4-L5 vs. L5-S1. Congress of Neurological Surgeons/American Association of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves. February, 2008; Orlando, Florida.
76. Guyer RD, Laurysen C, Blumenthal SL: A Prospective Randomized Study Comparing Cervical Total Disc Replacement to Fusion. Spine Arthroplasty Society. May, 2008; Miami, Florida.
77. Ohnmeiss DD, Guyer RD, Blumenthal SL, Hochschuler SH: Analysis of Total Disc Replacement Outcomes When Applying MCID (Minimal Clinically Important Difference) Criteria. Spine Arthroplasty Society. May, 2008; Miami, Florida.
78. Roush TF, Blumenthal SL, Guyer RD, Ohnmeiss DD: Analysis of Hybrid (Total Disc Replacement / Fusion Constructs) in the Lumbar Spine: A Comparison with Two-Level Total Disc Replacement. Spine Arthroplasty Society. May, 2008; Miami, Florida.

79. Blumenthal SL, Bitan FD, Cappuccino A, Geisler FH, Guyer RD, McAfee PC: A New Registry for the Advancement of Arthroplasty: The Center for Arthroplasty Research and Education (CARES). Spine Arthroplasty Society. May, 2008; Miami, Florida.
80. McAfee PC, Banco RJ, Blumenthal SL, Geisler FH, Guyer RD, Holt RT, Majd ME: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Effect at 5-year Follow-up of Prior Surgery on Clinical Outcomes Following Lumbar Arthroplasty. Spine Arthroplasty Society. May, 2008; Miami, Florida.
81. Regan JJ, Banco RJ, Blumenthal SL, Jenis LG, Geisler FH, Holt RT, Majd ME, Hetzell B: Prospective, Randomized, Multicenter FDA IDE Study of CHARITÉ Artificial Disc vs. Lumbar Fusion: Comparison of the Clinical Outcome of Patients Implanted at L4-L5 vs. L5-S1. Spine Arthroplasty Society. May, 2008; Miami, Florida.
82. Guyer RD, McAfee PC, Banco RJ, Bitan F, Cappuccino A, Geisler FH, Hochschuler SH, Jenis LG, Regan JJ, Blumenthal SL: Prospective, Randomized, Multi-center Food and Drug Administration Investigational Device Exemption Study of Lumbar Total Disc Replacement with the Charite Artificial Disc versus Lumbar Fusion. Eurospine. May, 2008; Geneva, Switzerland.
83. Ohnmeiss DD, Blumenthal SL, Guyer RD, Hochschuler SH: Analysis of Total Disc Replacement Outcomes When Applying MCID (Minimal Clinically Important Difference) Criteria. International Society for the Study of the Lumbar Spine. May 2008; Geneva, Switzerland.
84. Ohnmeiss DD, Roush TF, Blumenthal SL, Guyer RD: Analysis of Hybrid (Total Disc Replacement/Fusion Constructs) in the Lumbar Spine: A Comparison with Two-level Total Disc Replacement. North American Spine Society SpineWeek. May 2008; Geneva, Switzerland.
85. Regan JJ, Banco RJ, Blumenthal SL, Jenis LG, Geisler FH, Holt RT, Majd ME: Prospective, Randomized, Multi-center FDA IDE Study of Charite Artificial Disc vs. Lumbar Fusion: Comparison of the Clinical Outcome of Patients Implanted at L4-5 vs. L5-S1. Eurospine. May, 2008; Geneva, Switzerland.
86. Blumenthal SL, Arnold P, Rhyne A, Wang J, Kim K: Oxiplex Reduces the Incidence of Back Pain, Leg Pain, and Associated Symptoms 6 Months Following Single-level Lower Lumbar Surgery for Removal of A Herniated Disc. North American Spine Society SpineWeek. May, 2008; Geneva, Switzerland.
87. Wong DC, Jenis LG MD, Guyer RD, Banco RJ, Geisler FH, Holt RT, Majd ME, Regan JJ, Blumenthal SL, DeMuth GE, Hetzell BC: Is Preoperative Disc Height a Contributing Factor in 5-year Success Rate with Arthrodesis and Arthroplasty? International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.
88. Guyer RD, Geisler FH, Majd ME, Holt RT, Regan JJ, Blumenthal SL, Wong DC, Jenis LG, Banco RJ: The Impact of Preoperative DEXA Scores Following Arthroplasty on Long-term Clinical and Radiographic Outcomes – A 5-Year Follow-up Study. International Meeting on Advanced Spinal Techniques (IMAST). July, 2008; Hong Kong, China.

89. Blumenthal S, Zigler J, Guyer R, Waldrip A, Ohnmeiss D: A Prospective Randomized Comparison of Cervical Disc Replacement and Anterior Cervical Fusion. North American Spine Society. October, 2008; Toronto, Canada.
90. Majd M, Holt R, Guyer RD, Banco R, Geisler F, Jenis L, Regan J, Wong D, Blumenthal S: Two- and Five-year Lumbar Index-level Motion Following Arthroplasty: Impact of Heterotopic Ossification. North American Spine Society. October, 2008; Toronto, Canada.
91. Guyer RD, Geisler F, Holt RT, Majd M, Regan J, Wong D, Jenis L, Banco R, Blumenthal S, Demuth G, Hetzell B: The Impact of Postoperative Disc Height following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. North American Spine Society. October, 2008; Toronto, Canada.
92. Guyer RD, Laurysen C, Blumenthal S: Prospective Randomized Study Comparing Cervical Total Disc Replacement to Anterior Cervical Fusion. North American Spine Society. October, 2008; Toronto, Canada.
93. Guyer RD, Blumenthal SL, Zigler JE, Waldrip AM, Ohnmeiss DD: A Prospective Randomized Comparison of Cervical Disc Replacement and Anterior Cervical Fusion. Cervical Spine Research Society. December, 2008; Austin, Texas.
94. Guyer RD, Laurysen C, Blumenthal SL: Cervical Total Disc Replacement: A Prospective, Randomized Comparison to Anterior Cervical Fusion. Cervical Spine Research Society. December, 2008; Austin, Texas.
95. Majd M, Holt R, Guyer RD, Banco R, Geisler F, Jenis L, Regan J, Wong D, Blumenthal S: Two- and Five-year Lumbar Index-level Motion Following Arthroplasty: Impact of Heterotopic Ossification. American Association of Neurological Surgeons / Congress of Neurological Surgeons. March, 2009; Phoenix, Arizona.
96. Wong DC, Jenis LG, Guyer RD, Banco RJ, Geisler FH, Holt RT, Majd ME, Regan JJ, Blumenthal SL, DeMuth GE, Hetzell BC: Is Preoperative Disc Height a Contributing Factor in 5-year Success Rate with Arthrodesis and Arthroplasty? American Association of Neurological Surgeons / Congress of Neurological Surgeons. March, 2009; Phoenix, Arizona.
97. Guyer RD, Geisler FH, Majd ME, Holt RT, Regan JJ, Blumenthal SL, Wong DC, Jenis LG, Banco RJ: The Impact of Preoperative DEXA Scores Following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. American Association of Neurological Surgeons / Congress of Neurological Surgeons. March, 2009; Phoenix, Arizona.
98. Guyer RD, Geisler F, Holt RT, Majd M, Regan J, Wong D, Jenis L, Banco R, Blumenthal S, Demuth G, Hetzell B: The Impact of Postoperative Disc Height following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. American Association of Neurological Surgeons / Congress of Neurological Surgeons. March, 2009; Phoenix, Arizona.
99. Guyer RD, Rodriguez M, Blumenthal SL, Zigler JE, Atanasov AM, Ohnmeiss DD: A Prospective Randomized Comparison of Cervical Disc Replacement and Anterior Cervical Fusion. Spine Arthroplasty Society. April, 2009; London, England

100. Guyer RD, Auer PB, Zigler JE, Blumenthal SL, Ohnmeiss DD: Relationship between Endplate Morphology and Clinical Outcome of Single-Level Lumbar Disc Arthroplasty. Spine Arthroplasty Society. April, 2009; London, England.
101. Guyer RD, Geisler FH, Majd ME, Holt RT, Regan JJ, Blumenthal SL, Wong DC, Jenis LG, Banco RJ: The Impact of Preoperative DEXA Scores Following Arthroplasty on Long-term Clinical and Radiographic Outcomes – A 5-Year Follow-up Study. Spine Arthroplasty Society. April, 2009; London, England.
102. Guyer RD, Geisler FH, Holt RT, Majd ME, Regan JJ, , Wong DC, Jenis LG, Banco RJ, Blumenthal SL, DeMuth G, Hetzell BH: The Impact of Postoperative Disc Height following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. Spine Arthroplasty Society. April, 2009; London, England.
103. Ohnmeiss DD, Waldrip A, Blumenthal S, Zigler J, Guyer RD: Cervical Total Disc Replacement: Is It Effective in Treating Patients' Greatest Self-reported Functional Limitations? Spine Arthroplasty Society. April, 2009; London, England.
104. Majd ME, Holt RT, Guyer RD, Banco RJ, Geisler FH, Jenis LG, Regan JJ, Wong DC, Blumenthal SL: Two- and Five-year Lumbar Index-level Motion Following Arthroplasty: Impact of Heterotopic Ossification. Spine Arthroplasty Society. April, 2009; London, England.
105. Li B, Guyer RD, Blumenthal S, Zigler J, Ohnmeiss DD: Is Pre-operative Disc Height Related to Lumbar Total Disc Replacement Outcome? Spine Arthroplasty Society. April, 2009; London, England.
106. Guyer RD, Geisler FH, Holt RT, Majd ME, Regan JJ, Wong DC, Jenis LG, Banco RJ, Blumenthal SL, DeMuth G, MSc, Hetzell BH: The Impact of Postoperative Disc Height Following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. Spine Society of Australia. April, 2009; Brisbane, Australia.
107. Guyer RD, Geisler FH, Majd ME, Holt RT, Regan JJ, Blumenthal SL, Wong DC, Jenis LG, Banco RJ: The Impact of Preoperative DEXA Scores Following Arthroplasty on Long-term Clinical and Radiographic Outcomes – a 5-Year Follow-up Study. Spine Society of Australia. April, 2009; Brisbane, Australia.
108. Li B, Guyer RD, Blumenthal S, Zigler J, Ohnmeiss DD: Is Pre-operative Disc Height Related to Lumbar Total Disc Replacement Outcome? International Society for the Study of the Lumbar Spine. May, 2009; Miami, Florida.
109. Guyer RD, Cappuccino A, Blumenthal SL: 24-month Follow-up of a Prospective Randomized Comparison of Two Lumbar Total Disc Replacements. International Society for the Study of the Lumbar Spine. May, 2009; Miami, Florida.
110. Zigler JE, Guyer RD, Ohnmeiss DD, Blumenthal SL: Anterior Re-operation at the Same Level Following Lumbar Total Disc Replacement. International Society for the Study of the Lumbar Spine. May, 2009; Miami, Florida.
111. Guyer RD, Auer PB, Zigler JE, Ohnmeiss DD, Blumenthal SL: Relationship between Endplate Morphology and Clinical Outcome of Single-Level Lumbar Disc Arthroplasty. . International Meeting on Advanced Spine Techniques (IMAST). July, 2009; Vienna; Austria.

112. Garcia R, Blumenthal SL, Guyer RD, et al: Prospective Randomized US Trial Comparing an Unconstrained, Semi-Constrained, and Constrained TDR in the Treatment of Single Level Discogenic Pain: Results from Two Centers in an FDA IDE Study. North American Spine Society. October, 2009; San Francisco, California.
113. Ohnmeiss DD, Guyer RD, Blumenthal SL: Analysis of Change in Scores in commonly used Outcome Measures: What can We Legitimately Assume about the Stability of Individual Patient Scores Based on Group Mean Scores? The International Society for the Study of the Lumbar Spine. April, 2010; Auckland, New Zealand.
114. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE: Intra-Operative Conversion of Attempted Lumbar Total Disc Replacement to Fusion: Incidence and Causes. The International Society for the Study of the Lumbar Spine. April, 2010; Auckland, New Zealand.
115. 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. The International Society for the Study of the Lumbar Spine. April, 2010; Auckland, New Zealand.
116. Blumenthal SL, Rainey S, Zigler JE, Guyer RD, Ohnmeiss DD: Analysis of Adjacent Segment Re-Operation Following Lumbar Total Disc Replacement. The International Society for the Study of the Lumbar Spine. April, 2010; Auckland, New Zealand.
117. Ohnmeiss DD, Hume CS, Guyer RD, Zigler JE, Blumenthal SL: Cost Comparison of Total Disc Replacement vs. Fusion in Patients with Insurance Denial for Disc Replacement. International Society for the Study of the Lumbar Spine. April, 2010; Auckland, New Zealand.
118. Blumenthal SL, Guyer RD: Anular Repair after Lumbar Discectomy: Preliminary Observations from an Ongoing, Prospective, Randomized, Controlled Clinical Trial. Spine Society of Australia. April, 2010; Christchurch, New Zealand.
119. Ohnmeiss DD, Guyer RD, Blumenthal SL: Analysis of Change in Scores in Commonly Used Outcome Measures: What Can We Legitimately Assume about the Stability of Individual Patient Scores Based on Group Mean Scores? Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
120. Guyer RD, Ohnmeiss DD, Blumenthal SL: Lumbar Total Disc Replacement: Results of a Comprehensive Review of Clinical Outcomes, Radiographic Measures, and Complications/Re-Operations. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
121. Blumenthal SL, Saqqa S, Guyer RD, Zigler JE, Ohnmeiss DD: Hybrid Combined Total Disc Replacement and Fusion Procedures in the Lumbar Spine: Clinical and Radiographic Outcome. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.
122. Blumenthal SL, Ohnmeiss DD, Zigler JE, Guyer RD: Intra-Operative Conversion of Attempted Lumbar Total Disc Replacement to Fusion: Incidence and Causes. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.

123. Blumenthal SL, Rainey S, Guyer RD, Zigler JE, Ohnmeiss DD: Analysis of Adjacent Re-Operation Following Lumbar Total Disc Replacement. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
124. Duffy M, Saqqa SG, Blumenthal SL, Zigler JE, Guyer RD, Ohnmeiss DD: Treatment Options for Two-Level Symptomatic Disc Degeneration: Comparison of Total Disc Replacement, Fusion, and Hybrids. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
125. Blumenthal SL, Saqqa SG, Guyer RD, Zigler JE, Ohnmeiss, DD: Hybrid Combined Total Disc Replacement and Fusion Procedures in the Lumbar Spine: Clinical and Radiographic Outcome. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
126. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE, Hume CS: Intra-Operative Conversion of Attempted Lumbar Total Disc Replacement to Fusion: Incidence and Causes. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
127. Zigler JE, Guyer RD, Blumenthal SL, Ohnmeiss DD: Analysis of Re-Operations after Lumbar Total Disc Replacement: Experience in 1,000 Consecutive Cases Beginning with First Case Experience of 11 Surgeons. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
128. Bradley WD, Blumenthal S, Miller LE: Early Outcomes of Lumbar Spinal Stenosis Treatment with the Superior Interspinous Spacer. Society for Minimally Invasive Spine Surgery. November, 2010; Las Vegas, Nevada.
129. Ohnmeiss DD, Zigler JE, Guyer RD, Blumenthal SL: Meta-Analysis of Cervical Total Disc Replacement Compared with Anterior Cervical Fusion: Data from Four Prospective Randomized Multicenter FDA IDE Trials. Cervical Spine Research Society. December, 2010; Charlotte, North Carolina.
130. Guyer RD, Blumenthal SL, Zigler JE, Verma-Kurvari S, Atanasov A, Ohnmeiss DD: Bone Mineral Density Scanning in Potential Lumbar Total Disc Replacement Patients. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
131. Ohnmeiss DD, Blumenthal SL, Guyer RD: Investigating the Potential Effect of “Euphoric Bias” for the New Technology on Results of Randomized Lumbar Total Disc Replacement Trials. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
132. Hyder Z, Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Meta-Analysis of Lumbar Total Disc Replacement FDA-Regulated Trials: A Missed Opportunity. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
133. Guyer RD, Darwish A, Blumenthal SL, Zigler JE, Ohnmeiss DD: Lumbar Total Disc Replacement vs. Fusion: Analysis of Cost Comparison Studies. International Society for the Advancement of Spine Surgery April, 2011; Las Vegas, Nevada.

134. Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD, Verma-Kurvari S: Reported Re-Operations in Lumbar Total Disc Replacement: Analysis of the Literature. International Society for the Advancement of Spine Surgery. April, 2011; Las Vegas, Nevada.
135. Blumenthal S, Guyer R, Zigler J, Ohnmeiss D: Anterior Re-Operation at the Same Level Following Lumbar Total Disc Replacement. International Society for the Advancement of Spine Surgery. June, 2011; Gothenburg, Sweden.
136. Duffy M, Saqqa S, Zigler J, Guyer R, Ohnmeiss D, Blumenthal S: Treatment Options for Two-Level Symptomatic Disc Degeneration: Comparison of Total Disc Replacement, Fusion, and Hybrid. International Society for the Study of the Lumbar Spine. June, 2011; Gothenburg, Sweden.
137. Ohnmeiss D, Blumenthal S, Guyer R: Investigating the Potential Effect of “Euphoric Bias” for the New Technology on Results of Randomized Lumbar Total Disc Replacement Trials. International Society for the Study of the Lumbar Spine. June, 2011; Gothenburg, Sweden.
138. Guyer R, Darwish A, Blumenthal S, Ohnmeiss D, Zigler J: Lumbar Total Disc Replacement vs. Fusion: Analysis of Cost Comparison Studies. International Society for the Study of the Lumbar Spine. June, 2011; Gothenburg, Sweden.
139. Guyer RD, Darwish A, Blumenthal SL, Zigler JE, Ohnmeiss DD: Lumbar Total Disc Replacement vs. Fusion: Analysis of Cost Comparison Studies. International Meeting on Advanced Spine Techniques. July, 2011; Copenhagen, Denmark.
140. Guyer RD, Blumenthal SL, Zigler JE, Ohnmeiss DD: Investigating the Potential Effect of “Euphoric Bias” for the New Technology on Results of Randomized Lumbar Total Disc Replacement Trials. International Meeting on Advanced Spine Techniques. July, 2011; Copenhagen, Denmark.
141. Hyder Z, Guyer RD, Ohnmeiss DD, Blumenthal SL, Zigler JE: Meta-Analysis of Lumbar Total Disc Replacement FDA-Regulated Trials: A Missed Opportunity. International Meeting on Advanced Spine Techniques. July, 2011; Copenhagen, Denmark.
142. Guyer RD, Samocha Y, Ohnmeiss DD, Blumenthal SL, Zigler JE: Cervical Total Disc Replacement vs. Anterior Cervical Fusion: Data from Four Prospective, Randomized, Multicenter Trials. International Meeting on Advanced Spine Techniques. July, 2011; Copenhagen, Denmark.
143. Guyer RD, Samocha Y, Ohnmeiss DD, Zigler JE, Blumenthal SL: Cervical Total Disc Replacement vs. Anterior Cervical Fusion: Data from Four Prospective, Randomized, Multicenter Trials. North American Spine Society. November, 2011; Chicago, Illinois.
144. Morrison T, Guyer RD, Hisey MS, Atanasov A, Ohnmeiss DD, Zigler JE, Blumenthal SL: Clinical Outcomes of Stand-Alone Anterior Lumbar Interbody Fusion. AO Spine Fellows’ Forum. March, 2012; Banff, Alberta, Canada.
145. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Impact of Cervical Symptoms on Ability to Participate in Recreational Activities. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.

146. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Analysis of Outcome Stability Following Surgery Involving a Cervical Spine Implant. International Society for the Advancement of Spine Surgery. March, 2012; Barcelona, Spain.
147. Morrison T, Guyer RD, Hisey MS, Atanasov A, Ohnmeiss DD, Blumenthal SL, Zigler JE: Clinical Outcomes of Stand-Alone Anterior Lumbar Interbody Fusion. SpineWeek - International Society for the Study of the Lumbar Spine Section. May, 2012; Amsterdam, The Netherlands.
148. Guyer RD, Blumenthal SL, Zigler JE, Ohnmeiss DD, Verma-Kurvari S: Re-operations in Lumbar Total Disc Replacement: Analysis of the Literature. SpineWeek - North American Spine Society Section. May, 2012; Amsterdam, The Netherlands.
149. Guyer RD, Ohnmeiss DD, Blumenthal SL, Zigler JE: Comparison of Re-Operations in Cervical Total Disc Replacement Versus Anterior Cervical Fusion. SpineWeek - North American Spine Society Section. May, 2012; Amsterdam, The Netherlands.
150. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Impact of Cervical Symptoms on Ability to Participate in Recreational Activities. SpineWeek - North American Spine Society Section. May, 2012; Amsterdam, The Netherlands
151. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Analysis of Outcome Stability Following Surgery Involving Cervical Spine Implant. SpineWeek - North American Spine Society Section. May, 2012; Amsterdam, The Netherlands.
152. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE: Impact of Cervical Symptoms on Ability to Participate in Recreational Activities. Cervical Spine Research Society. December, 2012; Chicago, Illinois.
153. Rogers RW, Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Clinical Outcomes Following Anterior Cervical Hybrid Surgery Using Total Disc Replacement Combined with Anterior Cervical Fusion at the Adjacent Segment. Spine Society of Australia. April, 2014; Brisbane, Australia.
154. Owusu A, Zigler JE, Ohnmeiss DD, Guyer RD: Pregnancy after Lumbar Total Disc Replacement. International Society for the Advancement of Spine Surgery. Spine Society of Australia. April, 2014; Brisbane, Australia.
155. Rogers RW, Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Clinical Outcomes Following Anterior Cervical Hybrid Surgery Using Total Disc Replacement Combined with Anterior Cervical Fusion at the Adjacent Segment. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
156. Blumenthal SL: Randomized Study of Anular Repair Readmission Rates Following Discectomy. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
157. Blumenthal SL, Ohnmeiss DD, Lin E, Lou L: Replacement of Cervical Total Disc Replacement International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
158. Guyer RD, Baker R, Blumenthal SL, Zigler JE, Shivers J, Ohnmeiss DD, Verma-Kurvari S: Implementation of a Spine Surgery Quality Assurance Program in a Multi-Site Private

- Practice. International Society for the Study of the Lumbar Spine. June, 2014; Seoul, Korea.
159. Guyer RD, Rogers RW, Blumenthal SL, Ohnmeiss DD, Zigler JE: Clinical Outcomes Following Anterior Cervical Hybrid Surgery Using Total Disc Replacement Combined with Anterior Cervical Fusion at the Adjacent Segment. Spine Society of Australia. April, 2015; Canberra, Australia.
 160. Blumenthal SL, Davis RJ, Hisey MS, Bae HW: Comparison of Two-Level Cervical Disc Arthroplasty and Anterior Cervical Discectomy and Fusion: Results from an Investigational Device Exemption Clinical Trial through Five Years. Spine Society of Australia. April, 2015; Canberra, Australia.
 161. Guyer RD, Shivers J, Ohnmeiss DD, Zigler JE, Blumenthal SL: Results of a Complex Case Peer Review Program in a Private Practice Spine Specialty Clinic. International Society for the Study of the Lumbar Spine. June, 2015; San Francisco, California.
 162. Otero-Lopez ER, Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Comparison of Clinical Outcomes for Anterior vs. 360 Fusion at the Fusion Level of Lumbar Hybrid (Total Disc Replacement / Fusion) Surgery. International Society for the Study of the Lumbar Spine. June, 2015; San Francisco, California.
 163. Happ CM, Guyer RD, Blumenthal SL, Zigler JE, Ohnmeiss DD: Outcome after Anterior Cervical Fusion Using a Cervical Stand-alone Fusion Cage. Spine Across the Sea. July, 2015; Big Island, Kohala Coast, Hawaii.
 164. Ohnmeiss DD, Zigler JE, Guyer RD, Blumenthal SL: Pregnancy after Lumbar Total Disc Replacement. North American Spine Society. October, 2015; Chicago, Illinois.
 165. Muir J, Blumenthal SL: Effects on Patient Lifestyle and Quality of Life: Two-Year Outcomes of Three Lumbar Total Disc Replacement Systems from the ActivL Multicenter Randomized Controlled IDE Clinical Trial. North American Spine Society. October, 2015; Chicago, Illinois.
 166. Ohnmeiss DD, Guyer RD, Zigler JE, Blumenthal SL: Stability of Clinical Outcome Measures Following Anterior Cervical Spine Surgery. Cervical Spine Research Society. December, 2015; San Diego, California.
 167. Rogers RW, Blumenthal SL, Guyer RD, Zigler JE, Ohnmeiss DD: Clinical Outcomes Following Anterior Cervical Hybrid Surgery Using Total Disc Replacement Combined with Anterior Cervical Fusion at the Adjacent Segment. Cervical Spine Research Society. December, 2015; San Diego, California.
 168. Blumenthal SL, Davis RJ, Hisey MS, Bae HW: Comparison of Cervical Disc Arthroplasty with Anterior Cervical Discectomy and Fusion at 1 or 2 Levels. German Vertebral Column Congress. December, 2015; Frankfurt, Germany.
 169. Guyer RD, Putney E, Ohnmeiss DD, Zigler JE, Blumenthal SL: Analysis of Hospital Length of Stay Following Lumbar Anterior/Posterior Combined Fusion: Is There a Disadvantage Associated with Shorter Stays? International Society for the Study of the Lumbar Spine – SpineWeek. May, 2016; Singapore.

170. Ohnmeiss DD, Guyer RD, Blumenthal SL, Zigler JE: Re-operation after Lumbar Spine Surgery: Significant Variation in Rates Due to the Definitions Applied for Re-operation. North American Spine Society Summer Meeting. July, 2016; Miami, Florida.
171. Blumenthal SL, Otero-Lopez E, Guyer RD, Zigler JE, Ohnmeiss DD: Lumbar Hybrid Surgery with Total Disc Replacement at One Level and Fusion at the Adjacent Level: Does Fusion Type Impact Outcome? North American Spine Society. October, 2016; Boston, Massachusetts.
172. Sasso R, Smucker J, Blumenthal S, Guyer R, Zigler J: Early Experience with the M6-C Artificial Cervical Disc: A Report from Two IDE Investigational Centers Involved in a US FDA Approved IDE Study. International Society for the Advancement of Spine Surgery. April, 2017; Boca Raton, Florida.
173. Guyer R, Zigler J, Blumenthal S, Ohnmeiss D: Clinical Outcome after Three-level Lumbar Total Disc Replacement. International Society for the Advancement of Spine Surgery. April, 2018; Toronto, Ontario, Canada.
174. Blumenthal S: Initial Clinical Experience with a Novel Method for Herniated Disc Repair. International Society for the Advancement of Spine Surgery. April, 2018; Toronto, Ontario, Canada.
175. Sasso R, Zigler J, Blumenthal S, Guyer R, Cammissa F, Albert T, Coric D: Prospective, Multi-center Study with 24-month Follow-up Evaluating the M6-C Cervical Total Disc Replacement. Spine Society of Australia. April, 2018; Adelaide, Australia.
176. Zigler J, Blumenthal S, Guyer R, Ohnmeiss D: Analysis of Re-operations after Cervical Total Disc Replacement in a Consecutive Series of 504 Patients Receiving the ProDisc-C Device. Spine Society of Australia. April, 2018; Adelaide, Australia.
177. Blumenthal S, Zigler J, Guyer R, Ohnmeiss D: Analysis of Lumbar Total Disc Replacement Removals and Revisions: A 17-Year Experience. Spine Society of Australia. April, 2018; Adelaide, Australia.
178. Blumenthal S, Zigler J, Guyer R, Ohnmeiss D: Clinical Outcome of Anterior Cervical Fusion Using a Stand-alone Device in a Series of 224 Patients. Spine Society of Australia. April, 2018; Adelaide, Australia.
179. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE: Analysis of Lumbar Total Disc Replacement Removals and Revisions: A 17-year Experience. International Society for the Study of the Lumbar Spine. May, 2018; Banff, Canada.
180. Haddas R, Guyer RD, Blumenthal SL, Perez Y, Musngi N, Ritz S: The Effect of Physical Therapy on Gait and Balance in Patients follow Lumbar Artificial Disc Replacement – A Preliminary Study. North American Spine Society. September, 2018; Los Angeles, California.
181. Haddas R, Guyer RD, Blumenthal SL, Perez Y, Musngi N, Ritz S: The Effect of Physical Therapy on Gait and Balance in Patients follow Lumbar Artificial Disc Replacement – A Preliminary Study. North American Spine Society. September, 2018; Los Angeles, California.

182. Guyer RD, Blumenthal SL, Zigler JE, Ohnmeiss DD, Vovk A: Spike vs. Keel: Does Endplate Design of Lumbar Artificial Discs Affect Radiographic Outcomes? International Society for the Advancement of Spine Surgery. April, 2019; Anaheim, California.
183. Zigler JE, Guyer RD, Blumenthal SL, Ohnmeiss DD: Clinical Outcome of Cervical Hybrid Surgery Using a Stand-alone Device at the Fusion Level. International Society for the Advancement of Spine Surgery. April, 2019; Anaheim, California.
184. Blumenthal SL, Zigler JE, Guyer RD, Ohnmeiss DD: Intra-operative Conversion of Cervical Total Disc Replacement to Fusion: Incidence and Reasons. Spine Society of Australia. April, 2019; Queensland, Australia.
185. Blumenthal SL: Initial Clinical Experience with a Novel Method For Herniated Disc Repair. Global Spine Congress. May, 2019; Toronto, Ontario, Canada.
186. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE: Bone Mineral Density Screening in Patients Who Are Lumbar Total Disc Replacement Patients. International Society for the Study of the Lumbar Spine. June, 2019; Kyoto, Japan.
187. Guyer RD, Blumenthal SL, Zigler JE, Ohnmeiss DD: Impact of Range of Motion on Progression of Adjacent Segment Disease: Disc vs. Disc. International Society for the Study of the Lumbar Spine. June, 2019; Kyoto, Japan.
188. Ohnmeiss DD, Blumenthal SL, Guyer RD, Zigler JE: In Which Cases Do Surgeons Specializing in Total Disc Replacement Perform Fusion in Patients with Symptomatic Lumbar Disc Degeneration? International Society for the Study of the Lumbar Spine. June, 2019; Kyoto, Japan.
189. Guyer RD, Blumenthal SL, Zigler JE, Ohnmeiss DD: Spike vs. Keel: Does Endplate Design of Lumbar Artificial Discs Affect Radiographic Outcomes? International Society for the Study of the Lumbar Spine. June, 2019; Kyoto, Japan.
190. Haddas R, Blumenthal SL, Lieberman I: Does Improvement in Static Balance Alignment Truly Enhance Dynamic Body Balance? International Society for the Study of the Lumbar Spine. June, 2019; Kyoto, Japan.
191. Zigler JE, Guyer RD, Blumenthal SL, Ohnmeiss DD: Spike vs. Keel: Does Endplate Design of Lumbar Artificial Discs Affect Radiographic Outcomes? North American Spine Society. September, 2019; Chicago, Illinois.
192. Blumenthal SL, Ohnmeiss DD, Guyer RD, Zigler JE, Satin A: In Which Cases Do Surgeons Specializing in Total Disc Replacement Perform Fusion in Patients with Symptomatic Lumbar Disc Degeneration? North American Spine Society. October, 2020; San Diego, California.
193. Garcia R, Blumenthal SL, Da Silva A, Vovk A: 7 Year Re-Operation Rate Following Lumbar Disc Replacement: Results from the Activ L IDE. International Society for the Advancement of Spine Surgery. May, 2021; Miami, Florida.
194. Guyer RD, Ohnmeiss DD, Blumenthal SL, Zigler JE: Clinical Outcome of Anterior Lumbar Interbody Fusion Using a Stand-alone Cage for the Treatment of Symptomatic Disc Degeneration. International Society for the Study of the Lumbar Spine. June, 2021 (virtual meeting).

195. Blumenthal SL, Kiridly D, Shellock SL, Guyer RD, Zigler JE, Ohnmeiss DD: Late Failure of Cervical Disc Arthroplasty Due to Osteolysis. Spine Across the Sea (Joint meeting of NASS and JOA). July 2021; Kohala Coast, Hawaii.
196. Guyer RD, Shellock JL, Blumenthal SL, Zigler JE, Ohnmeiss DD: What Happened to Patients Who Received the Charite Lumbar Artificial Disc? North American Spine Society. October, 2022; Chicago, Illinois.
197. Shellock JL, Zigler JE, Guyer RD, Blumenthal SL, Ohnmeiss DD: Outcome of 2-level Lumbar Total Disc Replacement: Results of a Long-term Follow-up Study. SpineWeek (International Society for the Study of the Lumbar Spine section). May, 2023; Melbourne, Australia.
198. Blumenthal SL, Guyer RD, Shellock JL, Zigler JE, Ohnmeiss DD: Lumbar Total Disc Replacement for the Treatment of Adjacent Segment Degeneration after Lumbar Fusion. SpineWeek (International Society for the Study of the Lumbar Spine section). May, 2023; Melbourne, Australia.
199. Blumenthal SL, Guyer RD, Courtois EC, Edionwe J, Ohnmeiss DD: Is the Use of Intra-operative Neuromonitoring Justified during Lumbar Anterior Approach Surgery? SpineWeek (International Society for the Study of the Lumbar Spine section). May, 2023; Melbourne, Australia.
200. Blumenthal SL, Courtois EC, Griffin C, Guyer RD, Zigler JE, Shellock JL, Ohnmeiss DD: Incidence of Implant Removal or Revision Surgery after Cervical Total Disc Replacement in a Consecutive Series of 1,615 Patients Beginning with the First Case Experience in 2003. North American Spine Society. October, 2023; Los Angeles, California.
201. Blumenthal SL, Guyer RD, Courtois EC, Shellock JL, Zigler JE, Ohnmeiss DD: Changes in Sagittal Alignment Following Lumbar Total Disc Replacement: Analysis Based on Full-Body EOS Imaging. International Society for the Advancement of Spine Surgery. April, 2024; Miami, Florida.
202. Blumenthal SL, Ohnmeiss DD, Courtois EC, Guyer RD, Shellock JL, Zigler JE: Strategies for Addressing a Series of Failed Cervical Total Disc Replacements. International Society for the Advancement of Spine Surgery. April, 2024; Miami, Florida.
203. Blumenthal SL, Guyer RD, Courtois EC, Shellock JL, Zigler JE, Ohnmeiss DD: Effect of Lumbar Total Disc Replacement on Sagittal Alignment. International Society for the Study of the Lumbar Spine. May, 2024, Milan, Italy.
204. Ohnmeiss DD, Guyer RD, Blumenthal SL, Courtois EC, Shellock JL, Zigler JE: Relationship of Discography to Re-Operation for Disc-Related Pain More Than 10 Years after Lumbar Total Disc Replacement. International Society for the Study of the Lumbar Spine. May, 2024, Milan, Italy.
205. Ahn J, Courtois EC, Guyer RD, Blumenthal SL, Ohnmeiss DD: Impact of Age on the Occurrence of Vascular Complications in Patients Undergoing Anterior Lumbar Approach Surgery. Spine Across the Sea. July, 2024; Kauai, Hawaii.
206. Guyer RD, Blumenthal SL, Zigler JE, Shellock SJ, Ohnmeiss DD: Clinical Outcome of Lumbar Total Disc Replacement in Patients More Than 60 Years of Age. Spine Across the Sea. July, 2024; Kauai, Hawaii.

207. Derman PB, Satin AM, Staub BN, Blumenthal S, Courtois EC, Rogers-LaVanne MP: Posterior Cervical Foraminotomy after Cervical Disc Arthroplasty. Society for Minimally Invasive Spine Surgery. September, 2024; Las Vegas, Nevada.
208. Blumenthal SL, Ohnmeiss DD, Courtois EC, Guyer RD, Shellock JL, Zigler JE: Strategies for Addressing a Series of Failed Cervical Total Disc Replacements. North American Spine Society. September, 2024; Chicago, Illinois.
209. Guyer R, Zigler J, Blumenthal S, Shellock J, Ohnmeiss D: Clinical Outcome of Lumbar Total Disc Replacement In Patients More Than 60 Years of Age. Spine Summit. February, 2025; Tampa, Florida.
210. Guyer R, Fisher K, Zigler J, Blumenthal S, Shellock J, Ohnmeiss D: Intraoperative Conversion of Primary Cervical Total Disc Replacement to Fusion: Incidence and Reasons. Spine Summit. February, 2025; Tampa, Florida.
211. Guyer R, Blumenthal S, Shellock J, Wilson B, Zigler J, Ohnmeiss D: Outcomes of Lumbar Total Disc Replacement in Patients with Multiple Previous Discectomies. Spine Society of Australia. April, 2025; Perth, Australia.
212. Guyer R, Blumenthal S, Platt K, Zigler J, Shellock J, Ohnmeiss D: Adoption of Total Disc Replacement Among Surgeons Who Received Training on Their Use During Spine Surgery Fellowship. Spine Society of Australia. April, 2025; Perth, Australia.
213. Ohnmeiss DD, Courtois EC, Guyer RD, Blumenthal SL, Shellock JS, Zigler JE: Neck Disability Index Scores Across Multiple Cervical Total Disc Replacement Devices and during Long-term Follow-up of Patients Enrolled in Food and Drug Administration Investigational Device Exemption Trials. International Society for the Advancement of Spine Surgery. April, 2025; Miami, Florida.
214. Guyer RD, Blumenthal SL, Courtois EC, Zigler JE, Shellock JL, Ohnmeiss DD: Incidence of New Onset Leg Pain Following Anterior Approach Lumbar Surgery. International Society for the Advancement of Spine Surgery. April, 2025; Miami, Florida.
215. Shellock JL, Zigler JE, Platt K, Guyer RD, Blumenthal SL, Ohnmeiss DD: Adoption of Total Disc Replacement Among Surgeons Who Received Training on Their Use During Spine Surgery Fellowship. International Society for the Advancement of Spine Surgery. April, 2025; Miami, Florida.
216. Guyer R, Blumenthal S, Wilson B, Zigler J, Shellock J, Ohnmeiss D: Outcomes of Lumbar Total Disc Replacement in Patients with Multiple Previous Discectomies. International Society for the Study of the Lumbar Spine. May, 2025; Atlanta, Georgia.
217. Guyer R, Blumenthal S, Zigler J, Shellock J, Ohnmeiss D: Clinical Outcome of Lumbar Total Disc Replacement in Patients More Than 60 Years of Age. International Society for the Study of the Lumbar Spine. May, 2025; Atlanta, Georgia.