

Curriculum Vitae

Scott Lawrence Blumenthal, M.D.

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
Spine surgeon at Multi-discipline Spine Care Clinic

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
NBA Physicians, 2015 to present
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: Assistant Editorial Board

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. 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*, in press.

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, Hochschulter 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 C, 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, New York, New York, 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
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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.
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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.
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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.
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255. Blumenthal SL: Loss of Fixation. China International Conference on Lumbar Spine. Xi'an, China; May, 2013.
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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.
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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.

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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.
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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. 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.
 334. 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.
 335. 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.
 336. 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.
 337. 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.
 338. 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.
 339. 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.

340. 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.
341. Blumenthal SL: Annular Repair. Brussels Spine Symposium. November, 2018; Brussels, Belgium.
342. 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.
343. Blumenthal S, Hochschuler S, Derman P: Innovation at Texas Back Institute. MAZAMA Spine Summit. January, 2019; Winthrop, Washington.
344. 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.
345. 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.
346. 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.
347. 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.
348. 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.
349. 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.
350. Blumenthal SL: Debate: Cervical Disc Replacement is Superior to Anterior Cervical Discectomy and Fusion – Con. Spine Society of Australia. April, 2019; Queensland, Australia.
351. Blumenthal SL: Keynote Speaker: Surgeon Credentialing: Reviewing a Case Where Things Went Wrong. Spine Society of Australia. April, 2019; Queensland, Australia.
352. 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.

POSTER PRESENTATIONS

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-Meier 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.
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