

Jessica Shellock, M.D.

Office Address: Center for Disc Replacement at Texas Back Institute
6020 W. Parker Rd. #200
Plano, TX 75093

Position: Co-Director, Center for Disc Replacement at Texas Back Institute

Internship/Residency/Fellowship Training

Texas Back Institute 2008-2009
Plano, TX
Spine Surgery Fellowship

University of Florida 2003 – 2008
Gainesville, FL

- General Surgery Internship
- Orthopedic Surgery Residency

Medical Education

University of North Carolina School of Medicine 1999 – 2003
Chapel Hill, NC

- M.D. received in May 2003

College Education

Florida State University 1994 – 1998
Tallahassee, FL

- B.S. in Biochemistry, *summa cum laude*, 1998
- B.S. in Computer Science, *summa cum laude*, 1998

Academic Honors / Activities

Overall Year-End Grade of Honors for 2nd and 3rd year medical school curriculum
Sarah Graham Kenan Scholarship (1999)
Student Stores Medical Scholarship (2001)
Dean’s List recognition for each full-time semester at Florida State University
Phi Beta Kappa (1995)
Golden Key National Honor Society (1995)
Florida State University Freshman Scholarship (1994)

Other Work Experience

Duke University Medical Center, Dept. of Radiation Oncology 1998 - 1999
Durham, NC

- Database Developer / Research Assistant
- Developed and managed Microsoft Access databases for multiple clinical research projects. Assisted with radiographic image analysis and data collection.

Supercomputer Computations Research Institute (SCRI) 1997 – 1998
Florida State University, Tallahassee, FL

- Systems Developer
- Worked with systems development group on various projects, utilizing computer programming skills in languages including C/C++, JAVA, and PERL. Assisted in database development for statewide DMV tracking program and conducted training sessions for new users of our developed software.

Professional Memberships

American Academy of Orthopaedic Surgeons
Florida Orthopedic Society
North American Spine Society

State Medical Licenses

Texas, currently licensed

PUBLICATIONS

1. Guyer RD, Shellock J: Total Disc Replacement at the Texas Back Institute: Our Journey Over the Past 18 Years. *Coluna/Columna* 7(4):390-396, 2008.
2. Duffy MF, Shellock J, Blumenthal SL: Spinal Sports Injuries. *US Musculoskeletal Review* 37-42, 2009.
3. Guyer RD, Shellock J, MacLennan B, Hanscom D, Knight RQ, McCombe P, Jacobs JJ, Urban RM, Bradford D, Ohnmeiss DD: Early Failure of Metal-on-Metal Artificial Disc Prostheses Associated with Lymphocytic Reaction: Diagnosis and Treatment Experience in 4 Cases. *Spine* 36(7):E492-97, 2011.
4. 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? Accepted for publication in *Eur Spine J*.

Currently Submitted for Publication

1. Guyer RD, Zigler JE, Blumenthal SL, Shellock JL, Ohnmeiss DD: Evaluation of Anterior Lumbar Interbody Fusion Performed Using a Stand-alone, Integrated Fusion Cage. Submitted to *Int J Spine Surg*.

BOOK CHAPTERS

1. Shellock J, Guyer RD: *Lumbar Disc Arthroplasty: Indications and Contraindications*. In: Yue JJ, Guyer RD, Johnson JP, Khoo LT, Hochschuler SH (eds): The Comprehensive Treatment of the Aging Spine: Minimally Invasive and Advanced Techniques. Elsevier, Philadelphia, Pennsylvania; 2010; pp. 366-373.
2. Block AR, Shellock J: *Back Pain*. In: Gatchel RJ, Schultz IZ (eds.): Handbook of Musculoskeletal Pain and Disability Disorders in the Workplace. Springer, New York, New York, 2014; pp. 19-34.

PRESENTATIONS

1. Strickland J, MacMillan M, Conrad B: Mechanical Evaluation of a Compressed, Allograft, Intervertebral Implant with and without Flowable Ceramic Augmentation. Florida Orthopaedic Society Annual Meeting. May, 2008; St. Petersburg, Florida.
2. Shellock J: Spinal Cord Stimulation. Neuroscience Lecture Series. November, 2008; Plano, Texas.
3. Shellock J: Intra-operative Neuromonitoring. Neuroscience Lecture Series. April, 2009; Plano, Texas.
4. Guyer RD, Shellock J, MacLennan B, Hanscom D, Knight RQ, McCombe P, Jacobs J, Bradford D: Early Failure of Metal-on-Metal Artificial Discs Due to Metal Hypersensitivity: The Diagnostic and Treatment Approach in 4 Collected Cases. Lumbar Spine Research Society. April, 2009; Chicago, Illinois.
5. Guyer RD, Shellock J, MacLennan B, Hanscom D, Knight RQ, McCombe P, Jacobs J, Bradford D: Early Failure of Metal-on-Metal Artificial Discs Due to Metal Hypersensitivity: The Diagnostic and Treatment Approach in 4 Collected Cases. Spine Arthroplasty Society. April-May, 2009; London, England.
6. Guyer RD, Shellock J, MacLennan B, Hanscom D, Knight RQ, McCombe P, Jacobs J, Urban R, Bradford D, Duffy M: Early Failure of Metal-on-Metal Artificial Discs Due to Metal Hypersensitivity: The Diagnostic and Treatment Approach in Four Collected Cases. Spine Across the Sea. July, 2009; Maui, Hawaii.
7. Guyer RD, Shellock J, MacLennan B, Hanscom D, Urban R, Knight RQ, McCombe P, Jacobs J, Bradford D: Early Failure of Metal-on-Metal Artificial Discs Due to Metal Hypersensitivity: The Diagnostic and Treatment Approach in 4 Collected Cases. International Meeting on Advanced Spine Techniques (IMAST). July, 2009; Vienna, Austria.
8. Shellock J: Early Failure of Metal-On-Metal Artificial Disc Prostheses Associated with Lymphocytic Reaction. Interactive Educational Program (2nd Place Award winner). November 2009, San Francisco, California.
9. Shellock J: Re-Operations in a Consecutive Series of 900 Total Disc Replacement Patients. Preservation of Motion in the Spine. April, 2010; Duck Key, Florida.

10. Shellock J: Minimally Invasive Decompression and Fusion for Degenerative Spondylolisthesis. Preservation of Motion in the Spine. April, 2010; Duck Key, Florida.
11. Guyer RD, Shellock J, Kugler C, Hisey MS, Bradley WD, Ohnmeiss DD: Indirect Decompression of Lumbar Spondylolisthesis using Anterior Lumbar Interbody Fusion and Minimally Invasive Pedicle Screw Fixation. North American Spine Society. October, 2010; Orlando, Florida.
12. Shellock J, Guyer RD, Hisey MS, Bradley WD, Kugler C, Ohnmeiss DD: Indirect Decompression of Lumbar Spondylolisthesis using anterior lumbar interbody fusion and minimally invasive pedicle screw fixation. Society for Minimally Invasive Spine Surgery. November, 2010; Las Vegas, Nevada.
13. 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 Spine Arthroplasty Society. April, 2011; Las Vegas, Nevada.
14. Shellock J: Implementation and Impact of Pre-operative Peer Case Review in a Spine Practice. State of Spine Surgery: "Think Tank." June, 2013; Los Cabos, Mexico.
15. Biehn J, Shellock J, Ohnmeiss DD, Guyer RD, Zigler JE: Use of Amniotic Membrane Anti-adhesion Barrier for Lumbar Discectomy. International Society for the Advancement of Spine Surgery. April-May, 2014; Miami, Florida.
16. Guyer RD, Blumenthal SL, Zigler JE, Shellock J, Phillips F, Coric D, Camissa 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.
17. 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.
18. 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).

POSTERS

1. Conrad B, MacMillan M, Strickland J: Mechanical Evaluation of a Compressed, Allograft, Intervertebral Implant with and without Flowable Ceramic Augmentation. Spine Arthroplasty Society. May, 2008; Miami, Florida.
2. Guyer RD, Shellock J, MacLennan B, Hanscom D, Knight RQ, McCombe P, Jacobs J, Bradford D: Early Failure of Metal-on-Metal Artificial Discs Due to Metal Hypersensitivity: The Diagnostic and Treatment Approach in Four Collected Cases. International Society for the Study of the Lumbar Spine. May, 2009; Miami, Florida.
3. Guyer RD, Shellock J, Kugler C, Hisey MS, Bradley WD, Ohnmeiss DD: Indirect Decompression of Lumbar Spondylolisthesis using Anterior Lumbar Interbody Fusion and Minimally Invasive Pedicle Screw Fixation. Spine Arthroplasty Society. April, 2010; New Orleans, Louisiana.

4. Guyer RD, Shellock J, Kugler C, Hisey M, Bradley WD, Ohnmeiss DD: Indirect Decompression of Lumbar Spondylolisthesis using Anterior Lumbar Interbody Fusion and Minimally Invasive Pedicle Screw Fixation. International Meeting on Advanced Spine Techniques. July, 2010; Toronto, Canada.
5. Biehn J, Shellock J, Ohnmeiss DD, Guyer RD, Zigler JE: Use of Amniotic Membrane Anti-adhesion Barrier for Lumbar Discectomy. International Society for the Study of the Lumbar Spine. June, 2014; Seoul, Korea.
6. Biehn J, Shellock J, Ohnmeiss DD, Guyer RD, Zigler JE: Use of Amniotic Membrane Anti-adhesion Barrier for Lumbar Discectomy. North American Spine Society. November, 2014; San Francisco, California.
7. 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.