

## CURRICULUM VITAE

**Christopher J. DeWald, M.D.**

### PERSONAL

Business Address: Midwest Orthopaedics at Rush  
1611 W. Harrison, Suite 300  
Chicago, IL 60612  
312-738-2903

Birth Place: Chicago, Illinois

### UNDERGRADUATE EDUCATION

University of Illinois, Champaign-Urbana, IL	8/79-5/80
Northwestern University, Evanston, IL	summer 1982
Knox College, Galesburg, IL	9/80-6/83

### ***DEGREE EARNED:***

B.A. – CUM LAUDE, Chemistry, Knox College	June 1983
-------------------------------------------	-----------

### ***HONORS AND EXTRACURRICULAR ACTIVITIES:***

Knox College Varsity Football, (NCAA, Div. III)	Fall 1982
Mortar Board Honor Society, Knox College	3/1982-5/1983
Academic Affairs Committee, Knox College	3/1982-3/1983
Health Service Organization membership Knox College	1980-82
Fraternity member Phi Gamma Delta, University of Illinois, Champaign, IL	active 1983

### MEDICAL EDUCATION

Rush Medical College, Rush University, Chicago, IL	1983-1987
----------------------------------------------------	-----------

### ***DEGREE EARNED:***

M.D.	June 1987
------	-----------

### ***HONORS AND ACTIVITIES:***

Judiciary Review Committee	1983-84
Co-op Lecture Review Committee	1983-84
European sub-internship, Internal Medicine, Guy's Hospital, London, England	May 1987

***MEDICAL LICENSURE:***

National Board Medical Examination Certification, Parts I, II, III – Passed  
Illinois License #036 – 080160; IL D.E.A. #BD 2637114

**GRADUATE MEDICAL EDUCATION**

***INTERNSHIP:***

General Surgery  
University of Illinois Hospital and Clinics  
Chicago, IL 1987-1988

***RESIDENCY:***

Orthopaedic Surgery  
University of Illinois Hospital and Clinics  
Chicago, IL 1988-1992

Elective pediatric orthopaedic rotation  
Shriners Hospital for Crippled Children  
Chicago, IL 1989-1990

***FELLOWSHIP:***

Spinal Surgery and Research  
Chicago Spine Fellowship  
Rush Presbyterian St. Luke's Medical Center/  
Shriners' Hospital for Crippled Children  
Chicago, IL 1992-1993

North American Spine Society 1194 Traveling Fellowship,  
University of Heidelberg, Rehabilitationskrankenhaus,  
Karlsbad-Lagensteinbach, Germany  
Professor Jurgen Harms 8/1993 -12/1993

Institut Calot, Berck Plage, France  
Professor Daniel Chopin 1/94-4/94

Hokkaido University School of Medicine  
Sapporo, Japan  
Professor Kyoshi Kaneda 7/94-8/94

### **HONORS/AWARDS**

- 1994 North American Spine Society Traveling Fellowship, see above.
- 2002 Teacher of the Year Award, Rush Spine Fellowship
- 2011 Becker's Orthopedic and Spine Top 10 Leader in Scoliosis Surgeons in America
- 2012 America's Most Compassionate Doctor awarded by the "Patients' Choice"

### **ORTHOPAEDIC BOARD CERTIFICATION**

- Written exam – passed 7/92  
Oral exam – passed 7/96  
Board Certified 7/96  
Re-certified 7/2006

### **HOSPITAL POSITIONS**

- Lecturer and attending surgeon, Department of Orthopedic Surgery,  
University of Illinois, Chicago, Illinois 1994-present
- Consultant, Holy Family Hospital, Des Plaines, Illinois 1994-2006
- Consultant, Shriner's Hospital for Children, Chicago Unit  
Chicago, Illinois 1995-present
- Courtesy Status, RUSH Oak Park Hospital, Oak Park, Illinois 2004-present
- Courtesy Status, Northwestern Lake Forest Hospital,  
Lake Forest, Illinois 2005-2007
- Associate Attending, Northwestern Lake Forest Hospital,  
Lake Forest, Illinois 2007-present

### **ACADEMIC POSITIONS**

- Assistant Professor, Department of Orthopedic Surgery  
Rush University Medical Center, Chicago, Illinois 1994-present
- Senior Attending Surgeon, Chief, Section of Spinal Surgery/  
Scoliosis, Division of Orthopedics  
John J. Stroger, Jr. Hospital of Cook County, Chicago, Illinois 1995-2007

Director, Section of Spinal Deformity, Rush University  
Medical Center, Chicago, Illinois 2010-present

**PROFESSIONAL SOCIETIES**

American Medical Association  
Illinois State Medical Society / Chicago Medical Society  
Scoliosis Research Society, Fellow 1998  
American Academy of Orthopedic Surgeons, Fellow 1998  
Mid America Orthopedic Association  
North American Spine Society, Fellow 1994

**HOSPITAL/UNIVERSITY COMMITTEE APPOINTMENTS**

Committee on Educational Resources 1995-1996  
Alternate Member, Rush Presbyterian St. Luke's Medical Center,  
Chicago, IL.

Transfusion Committee, Rush University Medical Center  
Chicago, IL 1996-present

Surgical Invasive Procedure Committee, Rush University Medical Center  
Chicago, IL 1997-2008

Student Judiciary Review Committee, Rush Medical College  
Rush Presbyterian St. Luke's Medical Center, Chicago, IL 1998-2002

Faculty Council, Rush University,  
Rush Presbyterian St. Luke's Medical Center, Chicago, IL 1997-2000

Orthopedic Resident Selection Committee, Department of  
Orthopedic Surgery, Rush University Medical Center,  
Chicago, IL 2000-2008

Medical Student Advisor, Rush Medical College  
Rush University Medical Center, Chicago, IL 2001-2005

Committee on Senior Faculty Appointments and Promotions,  
Rush University Medical Center, Chicago, IL 2010-present

**PROFESSIONAL SOCIETY COMMITTEES**

**Scoliosis Research Society**

1. Exhibits Committee Member, Scoliosis Research Society 1995-1998
2. Education Committee Member, Scoliosis Research Society 1998-2001
3. Scoliosis Research Society Representative for The Bone and Joint Decade 2001-2010
4. Research Grant Committee Member  
Scoliosis Research Society 2002-2006
5. Program Committee Member, Scoliosis Research Society 2003-2005
6. SRS Adult Scoliosis Deformity Classification Committee 2009-present
7. SRS Coding Committee 2009-present
8. SRS Coding Committee; Vice Chairman 2011-2012

**North American Spine Society**

1. Membership Committee Member, North American Spine Society 1998-2001
2. Regional Spokesperson, Back to Health Week,  
North American Spine Society 2000-2001
3. NASS Coding Committee 2003-present
4. NASS Spine Advocates Program 2004-present
5. NASS Surgical Coding Committee 2004-2007
6. NASS Patient Safety Committee 2007
7. NASS Advocacy Committee 2007-2008
8. NASS Surgical Coding Committee 2007-2013
9. NASS Representative for AMA RUC Advisory Committee 2009-2011
10. NASS Annual Meeting: Program Reviewer 2011-2013

**American Academy of Orthopaedic Surgeons**

1. AAOS Coding, Coverage and Reimbursement Committee 2011-present

**Adult Spine Examination**

1. AAOS Annual Meeting: Adult Spine Evaluation Committee 2013-present

**MEDICAL JOURNAL EDITORIAL BOARD**

- Editorial Advisory Board, Spine Journal 1996-present
- Editorial Board, Journal of Spinal Disorders 2003-present

***ABSTRACTS:***

1. DeWald CJ, Mardjetko SM, Hammerberg KW, DeWald RL. Anterior Spinal Column Reconstruction Using the MOSS Cage. Annual Meeting, North American Spine Society, Minneapolis, Minnesota, October 1994.
2. Fayada P. DeWald CJ, Mardjetko SM, DeWald RL, Hammerberg KS. Osteodiscal Allograft Transplantation in Wistar Rats. Annual Meeting, North American Spine Society, Minneapolis, Minnesota, October 1994.
3. DeWald CJ, Mardjetko SM, Lubicky JD, Hammerberg KW, DeWald RL. Superior Mesenteric Artery Syndrome in Postoperative Scoliosis Patients. Abstract published in Orthopaedic Transactions, Vo.19, No.1, 1995, pg 93-94.
4. DeWald, CJ, Millikan KW, Hammerberg KW, Doolas A. DeWald RL. An Open Minimally Invasive Approach to the Lumbar Spine. Annual Meeting, Midwest Surgical Association, Huron, Ohio, August, 1997.
5. DeWald CJ. The Role of Anterior and Posterior Surgery in Degenerative Scoliosis. Abstract published in Final Program of Federation of Spine Associations at Annual Meeting of the American Academy of Orthopedic Surgeons, New Orleans, March, 1998.
6. DeWald CJ. Management of Degenerative Scoliosis. Abstract published in Final Program of Federation of Spine Associations (FOSA) at Annual Meeting of the American Academy of Orthopedic Surgeons, Orlando, Florida, March, 2000.
7. DeWald CJ. Defining the Tide Mark of Adult Idiopathic and Degenerative Scoliosis. Abstract published in syllabus for course in "Spinal Deformity Challenges in Surgical Challenges and Solutions", Los Croabas, Puerto Rico, May 12-13, 2000.
8. Dwyer TF, O'Brien MF, DeWald C, et al. Traumatic sacral spondylolisthesis following instrumentation for spinal deformity(paper 55). Presented at the 36<sup>th</sup>

- Annual Meeting of the Scoliosis Research Society, Cleveland, OH, September 19-22, 2001
9. Doel G, DeWald CJ, Nassr A, Hammerberg K, DeWald RL. “Long Deformity Fusions to L5, The Fate of the L5 Disc”. Abstract published in Final Program of Scoliosis Research Society, Quebec City, Quebec City, Quebec, Canada, September, 2003
  10. Lowe R, DeWald CJ, Bergin C, Hammerberg K, DeWald RL. “The Incidence of Reoperation and Pseudarthrosis in the Surgical Treatment of Adult Idiopathic Scoliosis”. Abstract presented 7<sup>th</sup> Annual Thesis Day Abstract Book, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, June, 2005.
  11. Frank Schwab, MD; Jason Demakakos; Benjamin Blondel, MD; Benjamin Ungar; Jacop M. Buchowski, MD, MS; Jeffrey D. Coe, MD; Donald A. Deinlein, MD; Christopher DeWald, MD; Hossein Mehdian, MD, MS(Orth) FRCS(Ed); Christopher I. Shaffrey, MD; Clifford B. Tribus, MD; Virginia Lafage, PhD USA, “Unmarked Image Validation of the SRS-Schwab Adult Deformity Classification” Abstract accepted for presentation at the International Meeting on Advanced Spine Techniques (IMAST) March 2012
  12. Frank Schwab, MD; Jason Demakakos; Benjamin Blondel, MD; Benjamin Ungar; Jacop M. Buchowski, MD, MS; Jeffrey D. Coe, MD; Donald A. Deinlein, MD; Christopher DeWald, MD; Hossein Mehdian, MD, MS(Orth) FRCS(Ed); Christopher I. Shaffrey, MD; Clifford B. Tribus, MD; Virginie Lafage, PhD USA, “Unmarked Image Validation of the SRS-Schwab Adult Deformity Classification” Abstract accepted for presentation at the International Meeting on Advanced Spine Techniques (IMAST) July 2012
  13. Christopher DeWald, MD; Isaac L. Moss, MDCM, MASc, FRCSC USA “Does the Use of Pelvic Screws Decrease the Revision Rate of Long Spinal Fusions to Sacrum” Abstract accepted for presentation at the International Meeting on Advanced Spine Techniques (IMAST) July 2012
  14. Lee J.K., Kurd M., Ahmadnia K., Finneberg S.J., DeWald C.J., “Does Pelvic Fixation Decrease the Incidence of Pseudarthrosis and Sagittal Imbalance in Long Fusion Constructs? Long-term Follow-up of 139 Adult Patients” presented at the International Meeting on Advanced Spine Techniques (IMAST) July 2013
  15. “Rod Fractures in Spinal Deformity Surgery Involving Pelvic Fixation: Does Stainless Steel Fracture less often?” Scoliosis Research Society, September 2013, Lyon, France

**BOOK CHAPTERS:**

1. DeWald CJ, Mardjetko SM. Compact Cotrel-Dubousset Instrumentation. SRS Manual on Spinal Instrumentation Techniques, ed. C.L. Brown, 1996.
2. Mardjetko SM and DeWald, CJ. Management of Metastatic Spinal Disease. SPINE: State of the Art Reviews, Vol. 10, No.1: pp.89, 1996.
3. DeWald CJ, Bicos J. Thoracolumbar Anterior Strut Fusion Techniques Following Corpectomy from Trauma, Chapter 42 in Fractures of the Cervical, Thoracic and Lumbar Spine. Ed. A, Vaccarro, Marcel Dekker, Inc., pp 589-609, 2002.
4. DeWald CJ. Thoracic Spine: Degenerative Disease, Chapter 9 in The Failed Spine. Ed. Scott D. Boden and Henry H. Bohlman, Lippincott-Williams-Wilkins, pp 126-135, 2002.
5. DeWald CJ. Spinal Cord Compression, Chapter 59 in The Textbook of Surgical Oncology, Algorithmic Approach. Ed. T. Saclarides, K. Millikan, C. Godellas, Spinger-Verlag, pp 564-576, 2003.
6. Dawson EG, DeWald CJ, Nattiv A. Osteoporosis: Evaluation and Pharmacologic Treatment, Chapter 19 in Spinal Deformities: The Comprehensive Text. Ed. R. DeWald, V Arlet, A. Carl, M. O'Brien, Thieme, pp 195-199, 2003.
7. DeWald CJ. Far Lateral Approach to the Cervical Spine, Chapter 5 in Surgical Techniques for the Spine. Ed. T.R. Haber, A.A. Merola, Thieme, pp 27-28, 2003.
8. Shen FH, Samartizis D, DeWald CJ, Coagulation and Thrombosis Embolism in Orthopedic Surgery, Orthopedic Knowledgeable Update, 2003.
9. DeWald RL, DeWald CJ, Surgical Treatment of Spondylolisthesis, Chapter 24 in Spinal Deformities: The Essentials, 1<sup>st</sup> Edition. Ed. Robert F. Heary, MD, Todd J. Albert MD, Theime, p.249, 2007.
10. DeWald CJ, Spondylolysis and Spondylolisthesis, Chapter 121 in Essential Orthopaedics. Ed. Miller MD, Hart JA, MacKnight JM, Saunders/Elsevier, pp.506-514, 2010.
11. DeWald RL, DeWald CJ, Lee Joseph, Surgical Treatment of Spondylolisthesis, in Spinal Deformities: The Essentials, 2<sup>nd</sup> Edition. Ed. Robert F. Heary, MD, Todd J. Albert MD, Theime, 2013.



## **PUBLICATIONS**

1. DeWald CJ, Millikan KW, Hammerberg KW, Doolas A, DeWald RL. An Open Minimally Invasive Approach to the Lumbar Spine. The American Surgeon, Vol. 65 (1) pp. 61-68, 1999.
2. Singh K, DeWald, CJ, Hammerberg KW, DeWald RL. Long Segment Structural Allograft in the Management of Large Anterior Spinal Column Defects. *Clinical Orthopedic & Related Research*, Jan (394) pp. 121-129, 2002.
3. Meneghini RM, DeWald CJ. Traumatic Posterior Spondylo ptosis at the Lumbosacral Junction. *J Bone Joint Surg*, Vol 85A No. 2, pp. 346-350, 2003
4. Mardjetko, Steven MD; Albert, Todd MD; Andersson, Gunnar MD, PhD; Bridwell, Keith MD; DeWald, Christopher J. MD; Gaines, Robert MD; Geck, Matthew MD; Hammerberg, Kim MD; Herkowitz, Harry MD; Kwon, Brian MD, PhD, FRCSC; Labelle, Hubert MD; Lubicky, John MD; McAfee, Paul MD; Ogilvie, James MD; Shufflebarger, Harry MD; Whitesides, Thomas MD; “Spondylolisthesis” *Spine*: 15(30) March 2005 – Issue 6S – p S3
5. Mardjetko, S. Albert, T., Andersson, G., Bridwell, K., DeWald, C., Gaines R. Geck M. Hammerberg K. Herkowitz H. Kwon B. Labelle H. Lubicky J. McAfee P. Ogilvie J. Shufflebarger H. Whitesides T. *Spine/SRS spondylolisthesis summary statement*. [see comment]. [0 refs] [Consensus Development Conference. *Journal Article*] *Spine*. 30(6 Suppl):S3, 2005 Mar 15.
6. DeWald, C.J., Vartabedian JE. Rodts MF. Hammerberg KW. Evaluation and Management of High-Grade Spondylolisthesis in An adults. [Journal Article] *Spine*. 30(6 Suppl):S49-59, 2005 Mar 15.
7. Altiok, H., Lubicky JP., DeWald CJ., Herman JE., The superior mesenteric artery syndrome in patients with spinal deformity. [Journal Article] *Spine*. 30(19):2164-70, 2005 Oct 1.
8. DeWald CJ. Stanley T. Instrumentation-related complications of multilevel fusions for adult spinal deformity patients over age 65: surgical considerations and treatment options in patients with poor bone quality. [Journal Article] *Spine*. 31(19 Suppl):S144-51, 2006 Sep 1.
9. Baron, Eli M. MD; Berven, Sigured H. MD; Bridwell, Keith H. MD; DeWald, Christopher J. MD; Hu, Serena S. MD; Macagno, Angel MD; Mardjetko, Steven M. MD; McAfee, Paul C. MD; Polly, David W. Jr. MD; Roach, Jim MD; Weidenbaum, Mark MD; Andersson, Gunnar B. J. MD, PhD; Weinstein, James N. MS, DO; “Adult Spinal Deformity Focus Issue” *Spine*: 1 September 2006 – Volume 31 – Issue 19S – p S202

10. DeWald, CJ. Coding for anterior lumbar interbody arthrodesis and instrumentation. SpineLine. Nov – Dec, 2007
11. Schwab, Frank MD; Ungar, Benjamin BA; Blondel, Benjamin MD; Buchowski, Jacob MD; Coe, Jeffrey MD; Deinlein, Donald MD; DeWald, Christopher MD; Mehdian, Hossein MD; Shaffrey, Christopher MD; Tribus, Clifford MD; Lafage, Virginie PhD. Scoliosis Research Society-Schwab Adult Spinal Deformity Clasification: A Validation Study. Spine: 20 May 2012 – Volume 37 – Issue 12 – p 1077-1082

**PRESENTATIONS:**

1. “A Review of Diabetic Neuroarthropathy”, Dept. of Orthopedics, University of Illinois Medical Center, Chicago, IL. March, 1989.
2. “Spinal Lymphangioma osis, Case Report and Literature Review”, Shriners Hospital, Chicago, IL, July 26, 1990.
3. “An Experimental Animal Model of Cauda Equina Syndrome”, Senior Thesis Day, Dept. of Orthopaedics, University of Illinois Medical Center, Chicago, IL, June 19, 1992.
4. “Superior Mesenteric Artery Syndrome-A Continued Complication of Posterior Spinal Fusion”, Sofield Day Lectures, Shriners Hospital, Chicago, IL, November 6, 1992
5. “The Use of MRI in the Determination of Prognosis in Congenital Spine Deformities”, Senior Resident and Fellow Thesis Day, Department of Orthopedic Surgery, Rush Presbyterian St Luke’s Medical Center, Chicago, May, 1993.
6. “Whole Column Approach to Adult Degenerative Scoliosis”, Bad Berka Spine Symposium, Bad Berka, Germany, March, 1994.
7. “Spinal Instability”, Complex, Revision, Quaternary Spine Surgery-or Spine Surgery “No One Wants to Do”. Rush Presbyterian St. Luke’s Medical Center, Chicago, June 1994.
8. “Long Allografts Used in anterior Spinal Reconstruction”, Annual Meeting, North American Spine Society, Minneapolis, Minnesota, October, 1994.
9. “Osteodiscal Allograft Transplantation in Wistar Rats”, Annual Meeting, North American Spine Society, Minneapolis, Minnesota, October, 1994.
10. “Flat back Syndrome in Scoliosis”, Annual Meeting, North American Spine Society, Minneapolis, Minnesota, October, 1994.

11. “Anterior Spinal Column Reconstruction Using the MOSS Cage”, Annual Meeting, North American Spine Society, Minneapolis, Minnesota, October, 1994.
12. “MOSS Cage Device for Anterior Vertebral Body Carpectomy”, Illinois Orthopedic Society, May, 1995.
13. “An Open Minimally Invasive Approach to the Lumbar Spine”, Annual Meeting, Midwest Surgical Association, Huron, Ohio, August, 1997.
14. “Review of Adult Scoliosis”, Spinal Deformity Challenges and Solutions of Surgical Treatment, Puerto Rico, May, 2000.
15. “Adult Scoliosis, Indications and Philosophies of Surgical Treatment”, Challenges and Advancements of Pediatric and Adult Spinal Deformity, Kiawah Island Resort, May, 2003.
16. “Fate of the L5-S1 Disc Space in Long Adult Scoliosis Constructs”, Challenges and Advancements of Pediatric and Adult Spine Deformity, Kiawah Island Resort, May 2003.
17. “Long Deformity Fusions to L5, The Fate of the L5 Disc”, Scoliosis Research Society Meeting, Quebec City, Quebec, Canada, September, 2003.
18. “Fate of the L5-S1 Disc Space in Long Adult Scoliosis Constructs”, Rush University Spine Course, Chicago, Illinois, November, 2003.
19. “Cervical, Thoracic, and Lumbar Osteotomies of the Spine”, AAOS Spine Seminar course, Orthopaedic Learning Center, Rosemont, IL. November, 2003.
20. “Isthmic Dysplastic Spondylolisthesis”, Spine Summit Meeting, Carlsbad, California, November, 2003.
21. “Treatment of Adult Scoliosis”, Spine Summit Meeting, Carlsbad, California, November, 2003.
22. “Assessment of Osteoporosis in Conjunction with Adult Spinal Deformity: Surgical Tricks and Assessment of when the Spine is too Osteoporotic to Benefit from Surgical Reconstruction”, SRS “Adult Spinal Deformity” Course, Miami, Florida, October, 2005.
23. “Low Lumbar and Lumbosacral Injuries”, 7<sup>th</sup> Annual Chicago Trauma Symposium, Chicago, Illinois, August 2005.
24. “Low Lumbar and Lumbosacral Injuries”, 8<sup>th</sup> Annual Chicago Trauma Symposium, Chicago, Illinois, July 2006.

25. “Surgical Management of High Grade Spondylolisthesis” International Meeting on Advanced Spine Techniques (IMAST), Athens, Greece, 2006
26. “Infections of the Instrumented Spine”, Initial guest speaker, Complications of Spine Operations Course, Illinois Neurosurgical Society, September 23 – 24, 2006.
27. “Curve Progression in Degenerative Scoliosis”, Complex Adult Spine, Chicago, IL 2007
28. “Thoracolumbar Spine Fracture” Chicago Trauma Symposium, August 7, 2008, Chicago, IL
29. “The Role of Neuromonitoring in Spinal Deformity Surgery”, Initial guest Speaker, 19<sup>th</sup> Annual Meeting of the National Neuromonitoring Society, May 2-4, 2008.
30. “Adult Scoliosis” 2009 DePuy Spine Summit: Diagnosis and Treatment Options for the Aging Spine, August 20 – 22, 2009, Raynham, MA.
31. “Thoracolumbar Spine Fractures” Chicago Trauma Symposium, March, 2010
32. “22000 Series Codes” North American Spine Society; Coding Update Course, July 2010, Chicago, IL
33. “Coding in Teaching Hospitals” North American Spine Society; Coding Update Course, July 2010, Chicago, IL
34. “22000 Series Codes” North American Spine Society, October 2010, Orlando, FL
35. “22000 Series Codes” North American Spine Society, Coding Update, October 2011, Chicago, IL
36. “Revision Spinal Deformity Treatment, Etiology and Solutions” Evaluation and Treatment of Adult Spinal Deformity: Skull to Sacrum, North American Spine Society/Co-sponsored by Scoliosis Research Society, April 2011,
37. Rush Orthopaedic Research and Education Foundation, Rush University Medical College, Chicago, IL
38. “The Treatment of Adult Scoliosis” Rush University Medical College, February, 2012, Chicago, IL
39. F. Schwab, MD; J. Demakakos; B. Blondel, MD; B. Ungar; J. M. Buchowski, MD, MS; J. D. Coe, MD; D. A. Deinlein, MD; C. J. DeWald, MD; H. Mehdian, MD, MS(Orth) FRCS(Ed); C. I. Shaffrey, MD; C. B. Tribus, MD; V. Lafage, Phd USA, “Unmarked Image Validation of the SRS-Schwab Adult

Deformity Classification” Abstract accepted for presentation at the International Meeting on Advanced Spine Techniques (IMAST) March 2012

40. F. Schwab, MD; J. Demakakos; B. Blondel, MD; B. Ungar; J. M. Buchowski, MD, MS; J. D. Coe, MD; D. A. Deinlein, MD; C. J. DeWald, MD; H. Mehdian, MD, MS(Orth) FRCS(Ed); C. I. Shaffrey, MD; C. B. Tribus, MD; V. Lafage, Phd USA, “Unmarked Image Validation of the SRS-Schwab Adult Deformity Classification” Abstract accepted for presentation at the International Meeting on Advanced Spine Techniques (IMAST) July 2012
41. C. J. DeWald, MD; I. L. Moss, MDCM, MASC, FRCSC USA “Does the Use of Pelvic Screws Decrease the Revision Rate of Long Spinal Fusions to Sacrum” Abstract accepted for presentation at the International Meeting on Advanced Spine Techniques (IMAST) July 2012
42. “Complications in Spinal Deformities” Evaluation and Treatment of Adult Spinal Deformity: Skull to Sacrum, North American Spine Society, April 2013, Burr Ridge, IL
43. “Revision Spinal Deformity Treatment: Etiology and Solutions” Evaluation and Treatment of Adult Spinal Deformity: Skull to Sacrum, North American Spine Society, April 2013, Burr Ridge, IL
44. Lee J.K., Kurd M., Ahmadnia K., Finneberg S.J., DeWald C.J., “Does Pelvic Fixation Decrease the Incidence of Pseudarthrosis and Sagittal Imbalance in Long Fusion Constructs? Long-term Follow-up of 139 Adult Patients” presented at the International Meeting on Advanced Spine Techniques (IMAST) July 2013
45. “Rod Fractures in Spinal Deformity Surgery Involving Pelvic Fixation: Does Stainless Steel Fracture less often?” Scoliosis Research Society, September 2013, Lyon, France

**MANUSCRIPTS:**

1. Section Editor for the Instructional Course Lectures, American Academy of Orthopedic Surgeons, 2003.
2. “The Role of Combined Anterior/Posterior Spinal Surgery in Degenerative Scoliosis”, Annual Meeting, Specialty Day Lecture, American Academy of Orthopaedic Surgeons, New Orleans, March 1998.
3. “Manage of Degenerative Scoliosis”, Annual Meeting, FOSA Society Ray Lecture, American Association of Orthopaedic Surgeons, February, 2000

4. “Adult Spinal Deformities”, Review and Update Course, American Association of Orthopaedic Surgeons, Seattle, November, 2000.
5. “Principles of Surgery for Adult Scoliosis”, AAOS Strategies in Spine Surgery, Orthopaedic Learning Center, Rosemont, Illinois, November 2000.
6. “Indications and Philosophies of Surgery for Adult Scoliosis”, AAOS Practical Strategies in Spine Surgery, Orthopaedic Learning Center, Rosemont, Illinois, June 2002.
7. Faculty, 2011 American Academy of Orthopaedic Surgeons Annual Meeting: Advanced Technologies in Adult Scoliosis Surgery, Instructional Course Lecture Adult Lumbar Scoliosis, February 15-19, San Diego, CA
8. Faculty, 2012 American Academy of Orthopaedic Surgeons Annual Meeting: Advanced Technologies in Adult Scoliosis Surgery, Instructional Course Lecture Adult Lumbar Scoliosis, February 7-11, San Francisco, CA

***EXHIBITS:***

1. “Superior Mesenteric Artery Syndrome in Postoperative Scoliosis Patients”, Scoliosis Research Society, Ashville, N.C., September, 1995.
2. “Anterior Spinal Column Reconstruction Using the Harm’s Titanium Mesh Cage”, Scoliosis Research Society, Ashville, N.C., September, 1995.
3. “Anterior Paramedian Muscle Sparing Retroperitoneal Approach to the Lumbar Spine Using a Transverse Skin Incision: A Direct “Minimally” Invasive Technique for Anterior Spinal Fusions”, Poster Exhibit, Scoliosis Research Society, Ottawa, Canada, 1996.
4. “Anterior Paramedian Muscle Sparing Retroperitoneal Approach to the Lumbar Spine Using a Transverse Skin Incision: A Direct “Minimally” Invasive Technique for Anterior Spinal Fusions”, Poster Exhibit North American Spine Society, Vancouver, Canada, 1996.

**RESEARCH EXPERIENCE**

Participation in research on the properties of the Anti-Invasion Factors of articular cartilage to inhibit proteases; used in abstract/preliminary paper for grant review, Department of Biochemistry, Rush Presbyterian St. Luke’s Medical Center, Chicago, Illinois, Summer 1982.

Participation in the production of a biosynthetic model of tendon constructed from cultured fibroblast cells and a collagen matrix, Department of Pathology, Rush Presbyterian St. Luke's Medical Center, Chicago, Illinois, Fall 1986.

Development of an experimental model for cauda equina syndrome, Department of Orthopedics, University of Illinois Medical Center, Chicago, Illinois August, 1991-June 1992. Presented at University of Illinois College Thesis Day, June, 1992.

Allograft intervertebral disc replacements in Wistar Rats, Rush Presbyterian St. Luke's Medical Center, Chicago, 1993-1994. Presented at Scoliosis Research Society 1994 and North American Spine Society, 1994.

Human disc allotransplantation, Rush University Medical Center, Chicago, 1994-present. Presented at Rush Thesis Day, May, 2005.

### **FACULTY, EDUCATION COURSES**

1. Practical Anatomy Workshop on Spinal Instrumentation, Assistant Instructor, St. Louis, Missouri, March, 1993.
2. Faculty on GICD Course: Complex, Revision, Quaternary Spine Surgery – or Spine Surgery “No One Wants To Do” Course, Chicago, Illinois, June, 1994.
3. “Monosegmental Circumferential Fusion and Stabilization for Selected Burst Fractures”, Presented at Course; Controversies in the Management of Pediatric and Adult Trauma, Deformities and Spondylolisthesis, St. Louis, Missouri, May 8-10, 1996.
4. “The Adolescent Spine”, Presentation at the Specialty Review and Orthopedic Surgery Course, National Center for Advanced Medical Education, Chicago, Illinois, June 20-23, 1997.
5. Faculty for American Academy Orthopedic Surgery Course: Contemporary Issues in Advanced Spinal Surgery, Rosemont, Illinois, November 7-9, 1997.
6. Faculty for Specialty Review Course for Orthopedic Surgery, National Center for Advanced Medical Education, “Spondylolysis and Spondylolisthesis in the Pediatric and Adult”, “Low Back Pain in Adults: Tumors and Infections”, “Thoraco-Lumbar Spinal Trauma”. Baltimore, Maryland, June 11-13, 1998.
7. “Degenerative Disorders of the Lumbar Spine”, Presentation at Specialty Review Course for Orthopedic Surgery, National Center for Advanced Medical Education, Baltimore, Maryland, June 11-13, 1998.

8. Faculty for The Chicago Orthopedic Board Review, Spinal Infections, Tumors and Arthritis, Chicago, Illinois, July 2001.
9. GICD Course, The Management of Vertebral Intracorporeal Disorders. What Works and What Doesn't, Presentation of "Acquired Spondylolisthesis", Chicago, Illinois, December 4-6, 1998.
10. American Academy of Orthopedic Surgeons Review Course for Practicing Orthopedic Surgeons, The Current Management of Adult Spinal Deformities, Philadelphia, Pennsylvania, November, 1998.
11. American Academy of Orthopedic Surgeons Review Course for Practicing Orthopedic Surgeons, The Current Management of Adult Spinal Deformities, San Francisco, California, November, 1998.
12. Faculty for American Academy Orthopedic Surgery Course: Contemporary Issues in Advanced Spinal Surgery, Rosemont, Illinois, August, 1999.
13. Faculty for Spinal Deformity Challenges and Solutions of Surgical Treatment, Puerto Rico, May, 2000.
14. Faculty for American Academy of Orthopaedic Surgeons, Review and Update for Practicing Orthopaedic Surgeons, #3571. Adult Spinal Deformities, Seattle, Washington, November, 2000.
15. Faculty for American Academy of Orthopaedic Surgeons, Strategies in Spinal Surgery, Rosemont, Illinois, November 16-18, 2000.
16. Faculty for Spinal Deformity Surgical Challenges and Solutions, Amelia Island, Florida, May 2001.
17. Course Committee for Fundamentals of Spinal Deformity, Scoliosis Research Society, Cleveland, Ohio, September, 2001.
18. Faculty for American Academy of Orthopaedic Surgeons, Practical Strategies in Spinal Surgery, Rosemont, Illinois, June, 2002.
19. Faculty for Challenges and Advancement in Pediatric and Adult Spinal Deformity, Kiawah Island Resort, May 15-17, 2003.
20. Faculty for American Academy of Orthopaedic Surgeons, Seminars in Spinal Surgery, Chicago, Illinois, November 14-15, 2003.
21. Course Co-Chairman for Rush University Spine Course, Chicago, Illinois, November 8, 2003.



22. Faculty for Spine Summit, Carlsbad, California, November 21-22, 2003.
23. Faculty for 7<sup>th</sup> Annual Chicago Trauma Symposium, Chicago, Illinois, August, 2005.
24. Faculty, Scoliosis Research Society Pre-course Symposium “Adult Spinal Deformity”, Miami, Florida, October 27, 2005.
25. Faculty for 8<sup>th</sup> Annual Chicago Trauma Symposium, Chicago, Illinois, July, 2006.
26. Faculty for Pre-Fellowship Bio-skills Workshop, DePuy Spine, Baltimore, Maryland, April 27-29, 2006.
27. Co-Chairman, 2007 DePuy Spine Summit: Complex Adult Spine, Chicago, IL, June 2007
28. Faculty, Coding Update, North American Spine Society, Jackson Hole, WY, January 17-20, 2008.
29. Co-Chairman, 2009 DePuy Spine Summit: Diagnosis and Treatment Options for the Aging Spine, August 20 – 22, 2009, Raynham, MA.
30. Faculty, Coding Update, North American Spine Society, Orlando, FL, 2010
31. Faculty, 2011 North American Spine Society: Evaluation and Treatment of Adult Spinal Deformity: Skull to Sacrum, Revision Spinal Deformity Treatment: Etiology and Solutions, April 29-30, Burr Ridge, IL
32. Faculty, 2011 American Academy of Orthopaedic Surgeons Annual Meeting: Advanced Technologies in Adult Scoliosis Surgery, Instructional Course Lecture Adult Lumbar Scoliosis, February 15-19, San Diego, CA
33. Faculty, Coding Update, North American Spine Society, Chicago, IL 2011
34. “Revision Spinal Deformity Treatment, Etiology and Solutions” Evaluation and Treatment of Adult Spinal Deformity: Skull to Sacrum, North American Spine Society/Co-sponsored by Scoliosis Research Society, April 2011
35. Faculty, 2012 American Academy of Orthopaedic Surgeons Annual Meeting: Advanced Technologies in Adult Scoliosis Surgery, Instructional Course Lecture Adult Lumbar Scoliosis, February 7-11, San Francisco, CA
36. Faculty, 2012 Annual SOLAS Research Meeting: Surgical Techniques for Correction of Adult Degenerative Scoliosis, May 3-5, San Diego, CA

37. Faculty, 2013 North American Spine Society, Evaluation and Treatment of Adult Spinal Deformity: Skull to Sacrum, April 5-6, Burr Ridge, IL
38. Faculty, 2013 Spinal Deformity *Live*: Optional Hands-On Cadaver Lab, March 7-9, St. Louis, MO
39. Faculty, 2013 Scoliosis Research Society, Spine Deformity Solutions: A Hands-On Course, October 3-5, Burr Ridge, IL
40. Faculty, 2013 North American Spine Society Annual Meeting: Symposium: Implementation of ICD-10, October 9-12, New Orleans, LA
41. Moderator, 2013 North American Spine Society Annual Meeting, Concurrent Session: Pediatric Deformity, October 9-12, New Orleans, LA

### **CONTINUING EDUCATION, COURSES AND SEMINARS**

1. Annual Meeting, Scoliosis Research Society, Baltimore, Maryland, September, 1988.
2. Spine Time, Lectures and Discussion by David Levine, M.D., Rush Presbyterian St. Luke's Medical Center, Chicago, Illinois, May, 1988.
3. Annual Meeting, American Academy of Orthopedic Surgeons, Las Vegas, Nevada. February, 1989.
4. A.O. /A.S.I.F. Basic Orthopedic Course, M. Allgower, M.D., Phoenix, Arizona, May 1989.
5. Sofield Memorial Day Lectureship, Shriner's Hospital, Chicago, Illinois, November, 1989.
6. Annual Meeting, American Academy of Orthopedic Surgeons, New Orleans, Louisiana, February, 1990.
7. Treatment of Surgical Spine Disease, Keith H. Bridwell, M.D., Ronald L. DeWald, M.D., Washington University School of Medicine, St. Louis, Missouri, April, 1991.
8. Annual Meeting, American Academy of Orthopedic Surgeons, Washington, D.C., February, 1992.
9. Comprehensive Boards Review Course for Orthopedic Surgeons, American Academy of Orthopedic Surgeons, Chicago, Illinois, March, 1992.

10. Annual Meeting, Scoliosis Research Society, Kansas City, Missouri, September, 1992.
11. Spinal Instrumentation from Harrington to the Future, American Academy of Orthopedic Surgeons Course, Kansas City, Missouri, September, 1992.
12. Sofield Memorial Day Lectureship, Shriner's Hospital, Chicago, Illinois, November, 1992.
13. Annual Meeting, Scoliosis Research Society, Dublin, Ireland, September, 1993.
14. Comprehensive Course on the Use of Compact C-D Spinal Instrumentation, Strasbourg, France, September, 1993.
15. Instructional Course, Video Assisted Spinal Surgery, Dallas, Texas, July, 1994.
16. Annual Meeting, North American Spine Society, Minneapolis, Minnesota, October, 1994.
17. Anterior Spine-Birth to Old Age Course, Chicago, Illinois, November, 1994.
18. Annual Meeting, Scoliosis Research Society, Ashville, N.C., September, 1995.
19. Course on "Sacropelvic Fusions", GICD, Ashville, North Carolina, September, 1995.
20. Scoliosis Research Society Symposium for Minimally Invasive Anterior Approaches to Thoracic and Lumbar Spine Surgery, Cincinnati, Ohio, June, 1996.
21. Annual Meeting, Scoliosis Research Society, Ottawa, Ontario, Canada, September, 1996.
22. Annual Meeting, North American Spine Society, Vancouver, Canada, October, 1996.
23. Annual Meeting, Scoliosis Research Society, St. Louis, Missouri, September, 1997.
24. Annual Meeting, Midwest Surgical Association, Huron, Ohio, August, 1997.
25. Annual Meeting, North American Spine Society, New York, October, 1997.
26. Annual Meeting, American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, March, 1998.
27. Annual Meeting, North American Spine Society, San Francisco, California, October, 1998.

28. Annual Meeting, North American Spine Society, Chicago, Illinois, October, 1999.
29. Annual Meeting, Scoliosis Research Society, San Diego, California, September 1999.
30. Annual Meeting, Scoliosis Research Society, Cairns, Australia, October, 2000.
31. Annual Meeting, Scoliosis Research Society, Cleveland, Ohio, September, 2001.
32. Annual Meeting, Scoliosis Research Society, Quebec City, Canada, September, 2003.
33. Annual Meeting, Scoliosis Research Society, Miami, Florida, October, 2005.
34. Annual Meeting, Scoliosis Research Society, Monterey, CA, September, 2006.
35. Annual Meeting, Scoliosis Research Society, Salt Lake City, UT, September, 2008.
36. Annual Meeting, Scoliosis Research Society, San Antonio, TX, September, 2009.
37. Annual Meeting, North American Spine Society, San Francisco, CA, October, 2009
38. Annual Meeting, North American Spine Society, Orlando, FL, October 2010
39. Annual Meeting, American Academy of Orthopaedic Surgeons, San Diego, CA, February, 2011
40. Annual Meeting, Scoliosis Research Society, Louisville, KY, September, 2011
41. Annual Meeting, American Academy of Orthopaedic Surgeons, San Francisco, CA February, 2012
42. Annual Meeting, Scoliosis Research Society, Chicago, IL, September, 2012
43. Annual Meeting, International Meeting of Advanced Spine Techniques (IMAST), Istanbul, Turkey, July 2012
44. Annual Meeting, American Academy of Orthopaedic Surgeons, Chicago, IL March 2013
45. Annual Meeting, Scoliosis Research Society, Lyon, France, September, 2013
46. Annual Meeting, North American Spine Society, New Orleans, Louisiana, October 2013