

CURRICULUM VITAE

DAVID GARY SCHWARTZ, MD

ADDRESS

Orthopaedics Indianapolis
8450 Northwest Boulevard
Indianapolis, Indiana 46278
9/1/95 - Present

TELEPHONE

Office(317) 802-2000

FACULTY APPOINTMENT

Assistant Clinical Professor
Indiana University Dept. of Orthopaedic Surgery

FELLOWSHIP

8/94 - 7/95 Leatherman Spine Fellowship
University of Louisville
Louisville, Kentucky

RESIDENCY

7/89 - 6/94 Orthopaedic Surgery
Northwestern University
Chicago, Illinois

INTERNSHIP

7/88 - 6/89 General Surgery
Loyola University
Chicago, Illinois

MEDICAL SCHOOL

7/84 - 5/88 Loyola University
Chicago, Illinois
Degree MD

COLLEGE

8/79 - 5/83 Indiana University
Graduated Cum Laude
BA Biology

HONORS AND AWARDS

1994 North American Spine Society
Award for outstanding research
**Anatomic Considerations in Percutaneous
Lumbar Procedures**

Lyman Smith Award
Presented for Resident Research
International Intradiscal Therapy Society
May 1994

Chief Resident

The Children's Memorial Hospital
Chicago, Illinois

Chief Resident
Cook County Hospital
Chicago, Illinois

PUBLICATIONS

Pinzur M, Schwartz D, et al: A Safe, Prefabricated, Immediate Post-operative Prosthetic Limb System for the Rehabilitation of Below Knee Amputees. *Orthopedics* 1989; Oct 12(10):1343-1345.

Pinzur M, Gold J, Schwartz D, et al: Energy Demands for Walking in Dysvascular Amputees as Related to the Level of Amputation. *Orthopaedics* 1992; September; 15(9):1033-1036; discussion 1036-1037.

Mirkovic SR, Schwartz DG: Anatomic Considerations in Lumbar Posterolateral Percutaneous Procedures. *Spine*. 1995 September 15; 20(18): 1965-1971.

Schwartz D, Schafer M: Low Back Pain in Athletes. *The Textbook of Spinal Surgery*. Philadelphia, PA, New York, NY. Lippincott – Raven 2 ed. 1997; Chapter 86: 1515-1531.

Grauer J, Vaccaro A, Schwartz D, et al: Similarities and Differences in the Treatment of Spine Trauma Between Surgical Specialties and Location of Practice. *Spine*. 2004 March 15; 28(6): 685-696.

Riina J, Schwartz D: Open Door Laminoplasty for the Treatment of Cervical Spondylolytic Myelopathy. *Surgical Techniques for the Spine*. New York, NY. Thieme Medical Publishers, Inc. 2003; Chapter 10: 47-51.

Spine Trauma Study Group, et al. Interobserver and Intraobserver Reliability of Maximum Canal Compromise and Spinal Cord Injury. *Spine*. 31(15):1719-25.

Schweitzer KM, Spine Trauma Study Group, et al. Inter-rater reliability of identifying indicators of posterior ligamentous complex disruption when plain films are indeterminate in thoracolumbar injuries. *Journal of Orthopaedic Science*. 2007 12:437-442.

Dimar JR, Carreon LY, Riina J, Schwartz DG, Harris MB. Early Versus Late Stabilization of the Spine in the Polytrauma Patient. *Spine*. 2010; 35(21 Suppl); S187-92.

Dvorak MF, Fisher CG, Schwartz, D, et al: Clinical Outcomes of Ninety Isolated Unilateral Facet Fractures, Subluxations and Dislocations Treated Surgically and Non-Operatively. *Spine* 32:3007-3013.

Riina J, Patel A, Dietz JW, Hoskins JS, Trammell TR, Schwartz DG. Comparison of Single-Level Cervical Fusion and a Metal-on-Metal Cervical Disc Replacement Device. *Am J Orthop*. 2008;37(4):E71-E77.

Lee J, Spine Trauma Study Group, et al. Assessment of Injury to the Posterior Ligamentous Complex in Thoracolumbar Spine Trauma. *The Spine Journal* (in review).

Lee J, Spine Trauma Study Group, et al. Assessment of Injury to the Posterior Ligamentous Complex in the Setting of Normal Appearing Plain Radiography. *The Spine Journal* (in review).

Ratliff J, Spine Trauma Study Group, et al. Regional Variability in Use of a Novel Assessment of Thoracolumbar Spine Fractures: United States versus International Surgeons. *Neurosurgery* (in review).

Schweitzer KM, Spine Trauma Study Group, et al. Inter-rater reliability of identifying indicators of posterior ligamentous complex (PLC) disruption when gross abnormalities are absent from plain film radiographs. *The Spine Journal* (in review)

Vaccaro AR, Spine Trauma Study Group, et al. The Sub-axial Cervical Spine Injury Classification System (SLIC): A Novel Approach to Recognize the Importance of Morphology, Neurology, and Integrity of the Disco-Ligamentous Complex. *Spine* (in review)

Schwartz DG, Burval DJ. Cervical Burst Fractures. In: Vaccaro AR, Fehlings MG, Dvorak MF, eds. *Spine and Spinal Cord Trauma Evidence-Based Management*. New York, NY: Thieme; 2010: 280-283

Dimar JR, Carreon LY, Riina J, Schwartz DG, Harris MB. Early Versus Late Stabilization of the Spine in the Polytrauma Patient. *Spine*. 2010; 35(21S): S187-S192

Riina J, Schwartz DG, Smith JE, Flint KJ. Minimal Access Techniques for Spine Trauma. In: Bridwell K, DeWald R, eds. *The Textbook of Operative Spine Surgery, Third Edition*. Lippincott Williams & Wilkins: January 2011

PRESENTATIONS

Schwartz D, Schneider G: Differentiation of Hemopoietic Stem Cells into Osteoclasts: A Cure for Osteopetrosis. Presented to the March of Dimes, December 1985.

Schwartz D: Initial Evaluation of Minimally Invasive Spine Procedures. Black Rock Clinic, Dublin, Ireland, July 1987.

Schwartz D, Sweeney P, Schafer M, Sarwark J: Treatment of Neuromuscular Scoliosis Using Cotrel-Dubouset Instrumentation. Presented at the Spinal Science Advancement Foundation Meeting, New Orleans, LA, November 1993 and the AOA Residents Conference, Atlanta, GA, March 1993.

Schwartz D: Surgical and Acute Care Considerations in the Spine Injured Patient. Lecturer at the Thirteenth Annual Management of the Spinal Cord Injured Patient Course. The Rehabilitation Institute of Chicago. Chicago, IL, May 1993.

Mirkovic SR, Schwartz DG: Anatomic Considerations in Lumbar Posterolateral Percutaneous Procedures. Presented at the Annual Meeting of the International Society for the Study of the Lumbar Spine, Seattle, Washington, June 1994.

Schwartz D, Bresch J, Meyer P, Schafer M: A Review of Pedicle Screw Placement Accuracy in Twenty-six Patients Using a New Pedicle Screw Template and Pre-Operative Protocol. Presented at the Spinal Science Advancement Foundation Meeting, New Orleans, LA, November 1994. Ad-

Schwartz D: Treatment of Severe Kyphosis in the Myelomeningocele Patient. Guest Lecturer at the University of Chicago Department of Orthopaedic Surgery GrandRounds. Chicago, IL, January 1995.

Schwartz D, Puno R, Sarwark J, Sweeney P, Glossman S, Dimar J, Johnson J: Surgical Treatment of Neuromuscular Scoliosis with Severe Pelvic Obliquity: Is Fusion to the Pelvis Necessary? North American Spine Society, Washington, DC, October 1995. American Academy of Orthopaedic Surgeons, Atlanta, GA, 1996.

Schwartz D: Versalock Pedicle Screw System - Initial review of Degenerative Lumbar Cases. Ski with The Spine Center, Whistler, CA, January 1998.

Schwartz D, Dietz J, Trammell T, Coscia M: Does Obesity Effect Outcome in Spine Fusion Patients? American Academy of Orthopaedic Surgeons, New Orleans, LA, March 1998.

Schwartz D, Dietz J, Trammel T, Coscia M, Stevens L: A New Endoscopic Approach to the Thoracolumbar Spine. American Academy of Orthopaedic Surgeons, New Orleans, LA, March 1998.

Spine Center Meeting, "Complex Spinal Disorders", Whistler, Canada, January 18-24, 2003

Spine Trauma Study Group, April 2-5, 2003, "Surgical Challenges in Treatment of Spine Trauma"

Spine Trauma Study Group, "Contemporary Surgical Techniques" November 18-19, 2004

Spine Trauma Study Group, "Outcomes of Operative vs. Nonoperative Treatment of Unilateral Cervical Facet Fracture Subluxation". Presented at NASS, September, 2006, Seattle, WA

Making Sense of Spine Surgery, The Westin Casuarina Hotel, Las Vegas, NV, January 27 & 28, 2006

Arnold PM, Nassr A, Schwartz DG, et al., Differences between neurosurgeons and orthopaedic surgeons in classifying cervical dislocation injuries and making assessment and treatment decisions: A multicenter reliability study. CSRS, November 29, 2007, San Francisco, CA (Podium Presentation).

Lee J, Spine Trauma Study Group, et al. Assessment of Injury to the Posterior Ligamentous Complex in the Setting of Normal-Appearing Plain Radiography. *The Spine Journal* 2007 Jul-Aug; 7(4): 422-7.

Ratliff J, Spine Trauma Study Group, et al. Regional Variability in Use of a Novel Assessment of Thoracolumbar Spine Fractures: United States versus International Surgeons. *World J Emerg Surg.* 2007 Sep 7;2:24.

Schweitzer KM, Spine Trauma Study Group, et al. Interrater reliability of identifying indicators of posterior ligamentous complex disruption when plain films are indeterminate in thoracolumbar injuries. *J Orthop Sci.* 2007 Sep; 12(5): 437-42.

Nassr A, Lee JY, Schwartz D et al., Reliability of Diagnosis and Treatment Decisions for Traumatic Cervical Dislocation, NASS (submitted 2007)

Vaccaro AR, Spine Trauma Study Group, et al. The Sub-axial Cervical Spine Injury Classification System: A Novel Approach to Recognize the Importance of Morphology, Neurology, and Integrity of the Disco-Ligamentous Complex. *Spine* 2007 Oct 1;32(21): 2365-74.

Schwartz DG, Patel A, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddock M, Toth JM, Rose S. A Sheep Study Comparing Two Different Preparations of rhBMP-2 to Autograft in an Instrumented Lumbar Corpectomy and Spinal Reconstruction Model. Indiana Orthopaedic Society. Belterra, IN. April 26-28, 2007.

Schwartz DG, Patel A, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddack M, Toth JM, Rose S. A Sheep Study Comparing Two Different Preparations of rhBMP-2 to Autograft in an Instrumented Lumbar Corpectomy and Spinal Reconstruction Model. St. Vincent Research Symposium. Indianapolis, IN. June 13, 2007

Schwartz DG, Patel A, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddack M, Toth JM, Rose S. A Sheep Study Comparing Two Different Preparations of rhBMP-2 to Autograft in an Instrumented Lumbar Corpectomy and Spinal Reconstruction Model. 56th National Congress of the Society of Italian Neurosurgeons Joint Meeting with the Congress of Neurological Surgeons. Rome, Italy. June 24-27, 2007.

Schwartz DG, Patel A, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddack M, Toth JM, Rose S. A Sheep Study Evaluating Fusion Rates Using Autograft in an Instrumented Lumbar Corpectomy Spinal Reconstruction Model. 56th National Congress of the Society of Italian Neurosurgeons Joint Meeting with the Congress of Neurological Surgeons. Rome, Italy. June 24-27, 2007.

Schwartz DG, Patel A, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddack M, Toth JM, Rose S. A Sheep Study Evaluating Fusion Rates Using rhBMP-2 in a Morselized Absorbable Collagen Sponge (ACS) Carrier Combined with Resorbable Ceramic Granules in an Instrumented Lumbar Corpectomy Spinal Reconstruction Model. 56th National Congress of the Society of Italian Neurosurgeons Joint Meeting with the Congress of Neurological Surgeons. Rome, Italy. June 24-27, 2007.

Schwartz DG, Patel A, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddack M, Toth JM, Rose S. A Sheep Study Evaluating Fusion Rates Using rhBMP-2 in a Compression Resistant Matrix (CRM) carrier in an Instrumented Lumbar Corpectomy Spinal Reconstruction Model. 56th National Congress of the Society of Italian Neurosurgeons Joint Meeting with the Congress of Neurological Surgeons. Rome, Italy. June 24-27, 2007.

Schwartz DG, Patel A, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddack M, Toth JM, Rose S. A Sheep Study Evaluating Fusion Rates Using Autograft in an Instrumented Lumbar Corpectomy Spinal Reconstruction Model. International Meeting on Advanced Spinal Technologies. Nassau, Bahamas. July 11-14, 2007.

Schwartz DG, Patel A, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddack M, Toth JM, Rose S. A Sheep Study Evaluating Fusion Rates Using rhBMP-2 in a Morselized Absorbable Collagen Sponge (ACS) Carrier Combined with Resorbable Ceramic Granules in an Instrumented Lumbar Corpectomy Spinal Reconstruction Model. International Meeting on Advanced Spinal Technologies. Nassau, Bahamas. July 11-14, 2007.

Schwartz DG, Patel A, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddack M, Toth JM, Rose S. A Sheep Study Evaluating Fusion Rates Using rhBMP-2 in a Compression Resistant Matrix (CRM) carrier in an Instrumented Lumbar Corpectomy Spinal Reconstruction Model. International Meeting on Advanced Spinal Technologies. Nassau, Bahamas. July 11-14, 2007.

Schwartz DG, Patel A, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddack M, Toth JM, Rose S. A Sheep Study Comparing Two Different Preparations of rhBMP-2 to Autograft in an Instrumented Lumbar Corpectomy and Spinal Reconstruction Model. Congress of Neurological Surgeons. San Diego, CA. September 15-20, 2007.

Schwartz DG, Patel A, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddack M, Toth JM, Rose S. A Sheep Study Evaluating Fusion Rates Using Autograft in an Instrumented Lumbar Corpectomy Spinal Reconstruction Model. Congress of Neurological Surgeons. San Diego, CA. September 15-20, 2007.

Schwartz DG, Patel A, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddack M, Toth JM, Rose S. A Sheep Study Evaluating Fusion Rates Using rhBMP-2 in a Morselized Absorbable Collagen Sponge (ACS) Carrier Combined with Resorbable Ceramic Granules in an Instrumented Lumbar Corpectomy Spinal Reconstruction Model. Congress of Neurological Surgeons. San Diego, CA. September 15-20, 2007.

Schwartz DG, Patel A, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddack M, Toth JM, Rose S. A Sheep Study Evaluating Fusion Rates Using rhBMP-2 in a Compression Resistant Matrix (CRM) carrier in an Instrumented Lumbar Corpectomy Spinal Reconstruction Model. Congress of Neurological Surgeons. San Diego, CA. September 15-20, 2007.

Schwartz DG, Patel A, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddack M, Toth JM, Rose S. A Sheep Study Comparing Two Different Preparations of rhBMP-2 to Autograft in an Instrumented Lumbar Corpectomy and Spinal Reconstruction Model. Orthopaedic Trauma Association. Boston, MA. October 18-20, 2007.

Schwartz DG, Patel A, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddack M, Toth JM, Rose S. A Sheep Study Comparing Two Different Preparations of rhBMP-2 to Autograft in an Instrumented Lumbar Corpectomy and Spinal Reconstruction Model. North American Spine Society. Austin, TX. October 23-27, 2007.

Trammell TR, Remley KB, Patel A, Fitzpatrick KA, Riina J, Coscia MF, Schwartz DG, Dietz JW, Graf CN. Can Recombinant Human Bone Morphogenetic Protein Be Used Successfully with Femoral Ring Allografts for Standalone Anterior Lumbar Interbody Fusion? A Quantitative Computed Tomography Study. Indiana Orthopaedic Society. Belterra, IN. April 26-28, 2007.

Trammell TR, Remley KB, Patel A, Fitzpatrick KA, Riina J, Coscia MF, Schwartz DG, Dietz JW, Graf CN. Can Recombinant Human Bone Morphogenetic Protein Be Used Successfully with Femoral Ring Allografts for Standalone Anterior Lumbar Interbody Fusion? A Quantitative Computed Tomography Study. Indiana University Medical School Garceau-Wray Presentations. Indianapolis, IN. June 7-8, 2007.

Trammell TR, Remley KB, Patel A, Fitzpatrick KA, Riina J, Coscia MF, Schwartz DG, Dietz JW, Graf CN. Can Recombinant Human Bone Morphogenetic Protein Be Used Successfully with Femoral Ring Allografts for Standalone Anterior Lumbar Interbody Fusion? A Quantitative Computed Tomography Study. 56th Trammell TR, Remley KB, Patel A, Fitzpatrick KA, Riina J, Coscia MF, Schwartz DG, Dietz JW, Graf CN. Can Recombinant Human Bone Morphogenetic Protein Be Used Successfully with Femoral Ring Allografts for Standalone Anterior Lumbar Interbody Fusion? A Quantitative Computed Tomography Study. Congress of Neurological Surgeons. San Diego, CA. September 15-20, 2007.

Riina J, Patel A, Schwartz DG, Dietz JW, Trammell TR, Fitzpatrick KA, Hoskins JS. Comparison of Single Level Cervical Fusion and A Metal on Metal Cervical Disc Replacement Device. Spinal Arthroplasty Society. Berlin, Germany. May 1-4, 2007.

Riina J, Patel A, Schwartz DG, Dietz JW, Trammell TR, Fitzpatrick KA, Hoskins JS. Comparison of Single Level Cervical Fusion and A Metal on Metal Cervical Disc Replacement Device. St. Vincent's Research Symposium. Indianapolis, IN. June 13, 2007.

Riina J, Patel A, Schwartz DG, Dietz JW, Trammell TR, Fitzpatrick KA, Hoskins JS. Comparison of Single Level Cervical Fusion and A Metal on Metal Cervical Disc Replacement Device. International Meeting on Advanced Spinal Technologies. Nassau, Bahamas. July 10-14, 2007.

Spinal Arthroplasty Society. Comparison of Single Level Cervical Fusion and A Metal on Metal Cervical Disc Replacement Device. Berlin, Germany. May 1-4, 2007

Arnold PM, Nassr A, Schwartz DG, et al. Differences between neurosurgeons and orthopaedic surgeons in classifying cervical dislocation injuries and making assessment and treatment decisions: A multicenter reliability study. AANS (accepted 2008)

Riina J, Fisher CG, Schwartz DG, et al. International Cervical Spine Trauma Epidemiology Rates. AANS (accepted 2008)

Making Sense of Spine Surgery, Westin Casuarina Hotel, Las Vegas, NV, May 30 and 31, 2008.

Schwartz DG, Flint K, Mobasser JP, Potts EA, Williams J, Graf CN, Riina J, Paddock M, Toth JM, Rose S. A Sheep Study Comparing Two Different Preparations of rhBMP-2 to Autograft in an Instrumented Lumbar Corpectomy and Spinal Reconstruction Model. SPINEWEEK 2008, May 26-31, 2008 in Geneva, Switzerland (under the SRS society).

Schwartz et al: A Sheep Study Comparing Two Different Preparations of rhBMP-2 to Autograft in an Instrumented Lumbar Corpectomy and Spinal Reconstruction Model. Orthopaedic Research Society. San Francisco, CA, March 2-5, 2008.

Riina J, Schwartz DG, et al. "Comparison of Single Level Cervical Fusion and A Metal on Metal Cervical Disc Replacement Device" Spine J. 2010 Mar;10(3): 193-9.

Anand N, Spine Trauma Study Group, et al. Evolution of Thoracolumbar Trauma Classification Systems: Assessment of Conflict between Mechanism of Injury and Injury Morphology. Topics in Spinal Cord Injury Rehabilitation (in press).

Emerging Trends in Spine Surgery, October 26, 2008, Association of Surgical Technologists.

Instrumented Lumbar Corpectomy and Spinal Reconstruction Comparing rhBMP-2/Compression Resistant Matrix (CRM), rhBMP-2/Absorbable Collagen Sponge (ACS)/Ceramic Granules Mixture and Autograft in 2 Different Devices presented at the IMAST Annual Meeting Toronto, Canada, July 21-24, 2010

Biomechanical Investigation of a New Cervical Laminoplasty Plate Fixation System to be presented at the 18th International Meeting on Advanced Spine Techniques (IMAST), Copenhagen, Denmark, July 13-16, 2011.

A Sheep Study Comparing rhBMP-2 and Autograft Incorporated into Titanium Mesh or PEEK Conduits in a Spinal Construct Model. Oral presentation for the American College of Spine Surgery Annual Conference. Las Vegas, NV June 3-4, 2011

Cadaveric Study of Disc Space Preparation Using a Minimally Invasive Approach. Oral presentation for the American College of Spine Surgery Annual Conference. Las Vegas, NV June 3-4, 2011

MEETINGS AND CONFERENCES

The Seventh Annual International Intradiscal Therapy Society Meeting, Aberdeen, Scotland, May 1994

The Annual Meeting of the North American Spine Society, October 1994

The Spinal Science Advancement Foundation Meeting, New Orleans, LA, November 1994

Spine Trauma Study Group, September 3-7, 2003

Fundamental Principles and Techniques in Thoracolumbar Trauma Surgery, November 7-8, 2003

Spine Center Meeting, Whistler, Canada, January 17-23, 2004

Spine Trauma Study Group, May 13-16, 2004

Spine Trauma Study Group, September 29-October 2, 2004

Spinal Focus, December 3-4, 2004

Minimal Access Spinal Technology, December 17, 2004

National Congress of the Society of Italian Neurosurgeons Joint Meeting with the Congress of Neurological Surgeons. Rome, Italy. June 24-27, 2007

CERTIFICATIONS

ABOS Certified, 1997
NASS Certified, 2000

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