

MICHAEL S. ROH, M.D.

Rockford Spine Center
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EDUCATION

- 1995 **M.D., Brown University School of Medicine**, Providence, RI
Valedictorian
- 1991 **B.A., Brown University**, Providence, RI
Major: Computer Science/Artificial Intelligence

TRAINING

- 2001-2002 **Fellowship, Spinal Surgery**
Washington University School of Medicine, St. Louis, MO
- 2000-2001 **Administrative Chief Resident, Orthopaedic Surgery**
New York Orthopaedic Hospital, Columbia University, New York, NY
- 1996-2001 **Residency, Orthopaedic Surgery**
New York Orthopaedic Hospital, Columbia University, New York, NY
- 1997-1999 **Stadium Physician, New York Yankees Professional Baseball Club**
Yankee Stadium, Bronx, NY
- 1997-1998 **Frank E. Stinchfield Orthopaedic Research Fellowship**
New York Orthopaedic Hospital, Columbia University, New York, NY
- 1997 **Microsurgery Course, Basic and Advanced**
New York Orthopaedic Hospital, Columbia University, New York, NY
- 1995-1996 **Internship, General Surgery**
Columbia-Presbyterian Medical Center, New York, NY

EXAMINATIONS

- 2014 **Orthopaedic Surgery Board Examination, Recertification**
99th Percentile, Board Certified
American Board of Orthopaedic Surgery
- 2004 **Orthopaedic Surgery Board Examination, Part 2 oral exam**
Passed, Board Certified
American Board of Orthopaedic Surgery
- 2001 **Orthopaedic Surgery Board Examination, Part 1 written exam**
99th Percentile, Board Eligible
American Board of Orthopaedic Surgery
- 2000 **Orthopaedic In-Training Examination**
100th Percentile
American Academy of Orthopaedic Surgeons
- 1999 **Orthopaedic In-Training Examination**
98th Percentile
American Academy of Orthopaedic Surgeons

PROFESSIONAL ORGANIZATIONS

- 2013 **Aldeen Golf Course Advisory Association**
Rockford Park District
- 2003 **University of Illinois College of Medicine at Rockford**
Clinical Assistant Professor
- 2002 **Scoliosis Research Society**
Active member, former committee chair
- 2002 **North American Spine Society**
Member
- 2002 **Illinois State Medical Society**
Member
- 2002 **Winnebago County Medical Society**
Member
- 1998 **American Academy of Orthopaedic Surgeons**
Fellow

PROFESSIONAL COURSES / FACULTY

- November 29, 2014 **Global Spine Outreach, Charitable Mission**
-December 6 Fundación Valle del Lili, Cali, Colombia
- November 20, 2014 **Annual Healthcare Symposium, Keynote Panel Speaker**
Chamber of Commerce, Rockford, Illinois
- February 28, 2010 **Solera Surgeon Feedback Symposium**
W Dallas Hotel – Victory, Dallas, Texas
- April 19, 2008 **Prestige Cervical Arthroplasty Training, Faculty member**
Gwinnett Technical College, Atlanta, Georgia
- December 19, 2007 **Prestige Cervical Arthroplasty Training, Course Director**
Southeastern Orthopedic Center, Savannah, Georgia
- March 30-1, 2007 **Prestige Cervical Arthroplasty Core Faculty Course**
Sofamor-Danek Headquarters, Memphis, Tennessee
- January 27-8, 2006 **Treatment Options for Degenerative Scoliosis in the Aging Spine**
Minimally-invasive options for degenerative scoliosis
Sofamor-Danek Training Satellite, Las Vegas, Nevada
- October 20, 2005 **Minimal Access Spinal Technologies, Course Director**
Sofamor-Danek Training Satellite, Milwaukee, Wisconsin
- January 28-9, 2005 **Controversies in the Treatment of Degenerative Scoliosis**
Minimally-invasive spine surgery
Sofamor-Danek Training Satellite, Orange County, California

July 12-4, 2002

Cervical Spine Decompression and Stabilization

Transarticular and odontoid fixation

Practical Anatomy Workshop, Saint Louis University

HONORS/AWARDS

PROFESSIONAL

- 2015 **Premier Spine Surgeon**
Newsweek Magazine
- 2015 **HealthGrades Awards for Spine Surgery**
2013 Rockford Memorial Hospital:
Five-Star Recipient for Spine Surgery for 5 Years in a Row (2009-13)
Ranked Among Top 10 for Spine Surgery for 7 Years in a Row (2007-2013)
Ranked #1 in Illinois for Spine Surgery in 2013
Ranked Among the Top 10% in the Nation for Spine Surgery in 2013
Recipient of HealthGrades Spine Surgery Excellence Award in 2013
One of HealthGrades America's 100 Best Hospitals for Spine Surgery in 2013
- 2011 **Patients' Choice Award**
-2014 "Near perfect scores as voted by patients", Vitals.com (online physician rating)
- 2011 **Compassionate Doctor Recognition**
-2014 Vitals.com (an online physician rating agency)
- 2014 **236 Spine Surgeons to Know**
Becker's Spine Review
- 2014 **Top 10 Doctor – State (Illinois)**
Vitals.com (an online physician rating agency)
- 2014 **Top 10 Doctor – City (Rockford, IL)**
Vitals.com (an online physician rating agency)
- 2014 **On-Time Doctor Award**
Vitals.com (an online physician rating agency)
- 2013 **Castle and Connolly Top Doctors in Orthopaedic Surgery**
Castle Connolly Medical Ltd.
- 2013 **105 Spine Surgery Practices to Know**
Becker's Spine Review
- 2013 **Customer Satisfaction Award**
"Talk of the Town" Award
- 2012 **Top 200 Spine Surgeons and Specialists to Know**
Becker's Spine Review
- 2012 **Top 50 Spine Surgery Practices to Know**
Becker's Spine Review
- 2012 **Nations Leading Spine Surgeons**
Newsweek Magazine
- 2010 **Scoliosis Research Society**
-2011 Chair, Website Committee

- 2011 **"Top Twenty-One People You Should Know"**
Rockford Chamber of Commerce, Rockford, IL
- 2006 **Fellow, Training for Tomorrow's Deformity Surgeon**
Medtronic Sofamor-Danek, San Diego, CA
- 2005 **Spinal Deformity Advancement Award**
Spinal Deformity Education Group, Wheaton, IL

RESIDENCY

- 2001 **Frank E. Stinchfield Award for Excellence in Orthopaedic Research**
New York Orthopaedic Hospital, Columbia University, New York, NY
- 2000 **Clinical Trials Award for House Staff**
Cervical Spondylotic Radiculopathy in Patients with Subacromial Impingement
Columbia University, Office of Clinical Trials, New York, NY
- 2000 **Administrative Chief Resident, Orthopaedic Surgery**
New York Orthopaedic Hospital, Columbia University, New York, NY
- 1999 **Charles S. Neer Award Nomination for Best Scientific Paper**
Anterior and Posterior Musculotendinous Anatomy of the Supraspinatus
Association of Shoulder and Elbow Surgeons, Specialty Day
- 1999 **Clinical Trials Award for House Staff**
Lumbosacral Arthrodesis with a 5 mm Titanium Rod-Screw Construct
Columbia University, Office of Clinical Trials, New York, NY
- 1998 **OREF Resident Research Grant (\$15,000)**
A Computer Model of the Thumb Carpometacarpal Joint
Orthopaedic Research and Education Foundation
- 1998 **Research Presentation, First Prize**
Contact Analysis of the Thumb Carpometacarpal Joint
New York Society for Surgery of the Hand, Residents and Fellows Conference
- 1998 **Frank E. Stinchfield Award for Excellence in Orthopaedic Research**
New York Orthopaedic Hospital, Columbia University, New York, NY
- 1998 **Clinical Trials Award for House Staff**
Arthroscopic Treatment of Septic Shoulder
Columbia University, Office of Clinical Trials, New York, NY
- 1997 **Clinical Trials Award for House Staff**
External Fixation with Allograft for Comminuted Fractures of the Distal Radius
Columbia University, Office of Clinical Trials, New York, NY

MEDICAL SCHOOL

- 1995 **Dean's Prize**, Brown University School of Medicine
- 1995 **Sigma Xi Scientific Research Society**
- 1994 **USMLE Part II:** 225/85/96th percentile, highest score in class
- 1993 **USMLE Part I:** 246/95/99th percentile, highest score in class
- 1992 **Hand Surgery Research**, Brigham and Women's Hospital
- 1992 **NIH Summer Research Fellowship Recipient**
- 1991 **Brown University Summer Research Fellowship**

PRESENTATIONS

1. Roh MS, Schwabero MD
Epidural Hematomas Following Minimally-Invasive Lumbar Spine Surgery
July 2005 International Meeting on Advanced Spine Techniques
2. Roh MS, Lenke LG, Edwards C, Rinella A, Riew KD, Bridwell KH
Vertebral Corpectomies Reconstructed with Titanium Mesh Cages
February 2004 American Academy of Orthopaedic Surgeons
3. Roh MS, Wilson-Holden T, Padberg A, Riew KD
The Utility of Somatosensory Evoked Potential Monitoring During Cervical Spine Surgery
September 2002 Scoliosis Research Society
4. Roh MS, Freehill M, Marra G, Pollock RG, Levine WN, Bigliani LU
Arthroscopic Treatment of Adult Septic Glenohumeral Arthritis
February 2001 American Academy of Orthopaedic Surgeons Meeting
5. Roh MS, Wang VM, April EW, Pollock RG, Bigliani LU, Flatow EL
Anterior and Posterior Musculotendinous Anatomy of the Supraspinatus
April 1999 Arthroscopy Association of North America Meeting
February 1999 Association of Shoulder and Elbow Surgeons Meeting, Specialty Day
February 1999 Orthopaedic Research Society Meeting
6. Roh MS, Xu L, Strauch RJ, Rosenwasser MP, Dick HM, Mow VC
Contact Analysis of the Thumb Carpometacarpal Joint: Computer Simulation and Joint Kinematics
February 1999 American Academy of Orthopaedic Surgeons Meeting
September 1998 American Society for Surgery of the Hand, Residents and Fellows Meeting
May 1998 New York Hand Society, Residents and Fellows Conference
7. Roh MS, Xu L, Pawluk RJ, Strauch RJ, Rosenwasser MP, Mow VC
Thenar Insertion of Abductor Pollicis Longus Accessory Tendons and Thumb Carpometacarpal Osteoarthritis
February 1999 Orthopaedic Research Society Meeting
8. Roh MS, Xu L, Rosenwasser MP, Mow VC
An Analysis of Functional Stability and Ligament Forces in the Normal and Lax Thumb Carpometacarpal Joint
September 1998 American Society for Surgery of the Hand Meeting
9. Roh MS, Weiss APC, Akelman E
Dupuytren's-like Contracture Following Trigger Finger Release
September 1998 American Society for Surgery of the Hand, Residents and Fellows Meeting
10. Roh MS, Sabra J, Paez X, Cronan J
The Use of Ultrasound and CT Scan in the Diagnosis of Appendicitis: A Comparative Study of Teaching versus Community Hospitals
April 1995 American Roentgen Ray Society Meeting

ABSTRACTS

1. Sweet FA, Roh MS, Sliva C
Intra-wound application of Vancomycin for prophylaxis in instrumented thoracolumbar fusions

February 2008 American Academy of Orthopaedic Surgeons Meeting
 July 2009 International Meeting of Advanced Spine Techniques
 September 2009 Scoliosis Research Society
 October 2009 North American Spine Society
Best Papers of 2009 NASS Annual Meeting

2. Brown GD, Roh MS, Xu L, Strauch RJ, Rosenwasser, MP, Pawluk RJ, Ateshian GA, Mow VC
Radiography, Topography, and Pathology of the Scaphotrapeziotrapezoidal Joint, and its Relationship to Thumb Carpometacarpal Osteoarthritis
 May 1999 New York Hand Society, Residents and Fellows Conference
Research Presentation, First Prize
 February 1999 Orthopaedic Research Society Meeting
3. Huang CY, Wang VM, Roh MS, Pawluk R, Flatow E, Mow VC
Temperature-Dependent Viscoelastic Effects of Supraspinatus Tendon
 November 1998 International Mechanical Engineering Congress & Exposition Meeting
4. Rosenwasser MP, Roh MS, Xu L, Ateshian GA, Pawluk RJ, Strauch RJ, Mow VC
Kinematics of the Thumb Carpometacarpal Joint in Active Functions
 September 1998 Third Triennial International Hand and Wrist Biomechanics Symposium
5. Rosenwasser MP, Herrera M, Strauch R, Roh MS
Treatment of Unstable Distal Radius Fractures with Cancellous Allograft and External Fixation
 March 2000 American Academy of Orthopaedic Surgeons Meeting
 June 1998 American Orthopaedic Association Meeting
 February 1998 American Orthopaedic Association Residents Meeting
 September 1997 American Society for Surgery of the Hand Meeting
6. Xu L, Cohen NP, Strauch RJ, Roh MS, Rosenwasser MP, Mow VC
A Parametric Analysis of Laxity in the Thumb Carpometacarpal Joint
 March 1998 Orthopaedic Research Society Meeting

PUBLICATIONS

1. Knapp DA, Goytan MJ, Perra JH, Noordeen HH, Smith JS, Broadstone PA, Berven SH, Choma TJ, Ames CP, Roh MS, Kim YJ, Ruder J: Assessment of Morbidity and Mortality Collection Data 2009. *Spine Deformity* 1: 179-84, 2013.
2. Sweet FA, Roh MS, Sliva C: Intrawound Application of Vancomycin for Prophylaxis in Instrumented Thoracolumbar Fusions: Efficacy, Drug Levels, and Patient Outcomes. *Spine* 36 (24): 2084-2088, November 2011.
3. Roh MS, Wilson-Holden TJ, Padberg AM, Park JB, Riew KD: The Utility of Somatosensory Evoked Potential Monitoring during Cervical Spine Surgery: How Often Does It Prompt Intervention and Affect Outcome? *Asian Spine Journal* 1: 43-47, Jun 2007.
4. Rinella A, Bridwell K, Kim Y, Rudzki J, Edwards C, Roh M, Lenke L, Berra A: Late Complications of Adult Idiopathic Scoliosis Primary Fusions to L4 and Above: The Effect of Age and Distal Fusion Level. *Spine* 29 (3): 318-325, 2004.
5. Brown GC III, Roh MS, Strauch RJ, Rosenwasser MP, Ateshian GA, Mow VC: Radiography and visual pathology of the osteoarthritic scaphotrapeziotrapezoidal joint, and its relationship to trapeziometacarpal osteoarthritis. *Journal of Hand Surgery, American Volume* 28A: 739-743, 2003.

6. Roh MS, Wang VM, Pollock RG, Bigliani LU, Flatow EL: Anterior and Posterior Musculotendinous Anatomy of the Supraspinatus. *Journal of Shoulder and Elbow Surgery* 9: 436-440, 2000.
7. Roh MS, Xu L, Pawluk RJ, Strauch RJ, Rosenwasser MP, Mow VC: Thenar Insertion of Abductor Pollicis Longus Accessory Tendons and Thumb Carpometacarpal Osteoarthritis. *Journal of Hand Surgery, American Volume* 25A: 458-463, May 2000.
8. Bigliani LU, Roh MS: Evaluation and Treatment of Rotator Cuff Lesions. *BioMechanics* 7:41-50, Mar 2000.
9. Herrera M, Chapman CB, Roh MS, Strauch R, Rosenwasser MP: Treatment of Unstable Distal Radius Fractures with Cancellous Allograft and External Fixation. *Journal of Hand Surgery, American Volume* 24A: 1269-1278, Nov 1999.
10. Roh MS, Weiss APC, Akelman E: Dupuytren's-like Contracture Following Surgery for Trigger Finger. *Journal of Hand Surgery, American Volume* (submitted, in revision).
11. Roh MS, Sabra J, Paez X, Cronan J: Use of Sonography in Diagnosing Acute Appendicitis: A Comparison of a Teaching Hospital and a Community Hospital. *Academic Radiology* 3: 438-41, 1996.
12. Roh MS, Weiss APC, Akelman E: Skier's Thumb: A Review. *Rhode Island Medicine* 77: 385-6, 1994.

BOOK CHAPTERS

Mow VC, Roh MS, Joseph D: The Effects of Instability on the Articular Cartilage of the Knee. In Ellenbecker T (Ed.): *Knee Ligament Rehabilitation*, Philadelphia, PA: Churchill Livingstone, pp. 386-398, 2000.

VIDEOS

Strauch RJ, Roh MS, Akelina Y: Microsurgical Repair of Rat Common Femoral Artery using a One-Way Up Technique. Instructional Video, April 1999.

SKILLS/INTERESTS

Fluency in Spanish and Korean, computer consultant/programmer, classical piano, golf, tennis, skiing, weight training, wines