

# R. Chris Glattes, MD

Orthopedic Surgery of the Spine



Dr. R. Chris Glattes specializes in Surgery of the Spine. He graduated from the University of Kansas School of Medicine and continued his medical training with a surgical internship and orthopedic surgery residency at Vanderbilt University Medical Center. This was followed by a Spine Fellowship training with some of the world's most renowned leaders in the field of spinal surgery at Washington University School of Medicine in St Louis.

Dr. Glattes is board certified with the American Board of Orthopaedic Surgery, a fellow of the American Academy of Orthopaedic Surgeons, and a member of the North American Spine Society.

As an orthopedic surgeon, Dr. Glattes has maintained a practice limited to spinal surgery and spinal rehabilitation since 2002. He served as an assistant professor at the University of Kansas School of Medicine for four years prior to joining Elite Sports Medicine + Orthopedics in 2008.

Dr. Glattes is a team physician for Lipscomb University and takes great pride seeing "courtside consults" for Alliance Volleyball Club. He has a special interest in lifestyle improvements and achieving long-term health and athletic goals. He strongly encourages his patients after completing their physical therapy regimens to move into specialized personal training for continued health and fulfillment.

Dr. Glattes' personal interests include time with family, weight training, traveling with his two daughters' volleyball club, and working on his horse farm in Williamson County, Tennessee.

## SPECIALTIES

- Sports-related Injuries to the Spine
- Cervical Spine Surgery, Thoracolumbar Spine Surgery
- Minimally Invasive Surgery
- Adult Spinal Disorders
- Cervical Trauma
- Artificial Cervical Disc Replacement
- Non-Operative management of spinal disorders
- Motion Preservation Surgery of the Cervical Spine

## EDUCATION

1985-1989 Rockhurst Jesuit High School  
Kansas City, Missouri

1989-1993 Southwest Missouri State University  
Springfield, Missouri  
Degree: B.S., Honors Program, cum laude  
Major: Biology

1993-1997 University of Kansas School of Medicine  
Kansas City, Kansas  
Degree: M.D., Alpha Omega Alpha

## POSTDOCTORAL TRAINING

1997-1998 Vanderbilt University Medical Center  
Internship, General Surgery  
Nashville, Tennessee  
Director: John Tarpley, M.D.

1998-2002 Vanderbilt University Medical Center  
Residency, Orthopaedic Surgery  
Nashville, Tennessee  
Chairman: Dan Spengler, M.D.  
Residency Director: Neil Green, M.D.

2002-2003 Washington University School of Medicine  
Spine Fellowship, Orthopaedic Surgery  
Saint Louis, Missouri  
Director: Keith Bridwell, M.D.

## EMPLOYMENT

January 2008 – Present Elite Sports Medicine + Orthopedics

## ACADEMIC APPOINTMENTS

2003-2007 Assistant Professor  
Department of Orthopaedic Surgery  
University of Kansas School of Medicine  
Kansas City, Kansas

2002-2003 Clinical Instructor  
Department of Orthopaedic Surgery  
Washington University School of Medicine  
Saint Louis, Missouri

## SPECIALTY CERTIFICATION / ORGANIZATIONS

Board Certified by the American Board of Orthopaedic Surgery  
Certification of Added Qualifications in Surgery of the Hand

## HONORS / AWARDS

Undergraduate Honors:

Tau Beta Pi (National Engineering Honor Society)  
Corresponding Secretary  
Omicron Delta Kappa (National Leadership Honor Society)  
Phi Eta Sigma (National Freshman Honor Society)  
Scholar Athlete Honor Roll Dean's List

Undergraduate Offices:

Varsity Ski Team: Captain  
Tau Lambda Chi Fraternity  
Treasurer. Interfraternity Council: Representative

## VOLUNTEER ACTIVITIES

Glattes RC: Cervical Myelopathy. Grand Rounds. Department of Orthopaedic Surgery, Washington University School of Medicine, October 2002.

Glattes RC: Thoracolumbar Spine Fractures, Orthopaedic AM Conference. University of Kansas School of Medicine, August 20, 2003.

Glattes RC: Thoracolumbar Spine Anatomy, Orthopaedic Spine Dissection. University of Kansas School of Medicine, August 23, 2003.

Glattes RC: Syndromes Associated with Spinal Deformity, University of Kansas School of Medicine, December 3, 2003.

Glattes, RC: Thoracolumbar Spine Anatomy and Fracture Management, University of Kansas School of Medicine, August 4, 2004.

Glattes RC: Cervical Spine Trauma, November 2005, 2006

Glattes RC: Treatment of Spinal Infections, February 2007.

Glattes RC: Neuromuscular Scoliosis, May 2007

## RECURRENT TEACHING RESPONSIBILITIES-INTRAMURAL MEDICAL STUDENTS/ALLIED HEALTH

Glattes RC: Spinal Deformity. Annual Physical Therapy Guest Lectureship, Washington University School of Medicine, August 18, 2002.

Glattes RC: Cervical spine trauma in the athlete, Hayes Area Health Education Symposium, Hayes KS, 2006.

Glattes RC: Cervical spinal conditions and treatment, Sandhill Sports Medicine Symposium, Garden City, KS, 2006.

## RECURRENT TEACHING RESPONSIBILITIES-INTRAMURAL RESIDENT EDUCATION

Glattes RC: Cervical Myelopathy. Grand Rounds. Department of Orthopaedic Surgery, Washington University School of Medicine, October 2002.

Glattes RC: Thoracolumbar Spine Fractures, Orthopaedic AM Conference. University of Kansas School of Medicine, August 20, 2003.

Glattes RC: Thoracolumbar Spine Anatomy, Orthopaedic Spine Dissection.

University of Kansas School of Medicine, August 23, 2003.

Glattes RC: Syndromes Associated with Spinal Deformity, University of Kansas School of Medicine, December 3, 2003.

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Glattes RC: Cervical Spine Trauma, November 2005, 2006

Glattes RC: Treatment of Spinal Infections, February 2007.

Glattes RC: Neuromuscular Scoliosis, May 2007

## INTERNATIONAL PRESENTATIONS

Glattes RC, Bridwell KH, Lenke LG: Proximal junctional kyphosis in adult spinal deformity: incidence, outcomes and risk factor analysis, Scoliosis Research Society International Meeting, Quebec City, Quebec, September 2003.

Glattes RC, Riew KD: Current Trends in Cervical Spine Surgery: the evolution of the artificial disk replacement, Vanderbilt Orthopaedic Society Guest Lecturer, Nassau, Bahamas, March 2004.

Glattes RC, Burton DC, Asher MA: Correction of the angle of trunk inclination utilizing apical wiring techniques and concave rib osteotomy in adolescent idiopathic scoliosis, International Meeting on Advanced Spinal Techniques (IMAST), Athens, Greece July 2006.

## NATIONAL PRESENTATIONS

Glattes RC, Spindler KP, Rohmiller MT: A safe and reliable method of documenting intra-articular injection of the knee, Vanderbilt Orthopaedic Society National Meeting, Kiawah Island, South Carolina, May 2003.

Glattes RC, Bridwell KH, Lenke LG: Proximal junctional kyphosis in adult spinal deformity: incidence, outcomes and risk factor analysis, North American Spine Society National Meeting, San Diego, California, October 2003.

Orchowski J, Bridwell KH, Lenke LG: Neurologic deficit from a purely vascular etiology after unilateral vessel ligation during anterior thoracolumbar fusion of the spine, Glattes presented on behalf of J Orchowski, North American Spine Society National Meeting, San Diego, California, October 2003.

Glattes RC, Bridwell KH, Lenke LG: Proximal junctional kyphosis in adult spinal deformity: incidence, outcomes and risk factor analysis, American Academy of Orthopaedic Surgeons National Meeting, San Francisco, California, March 2004.

Asher MA, Lai SM, Glattes RC, et al: Refinement of the SRS-22 health related quality of life questionnaire function domain, ISOLA Study Group Meeting, Kansas City, MO August 2004.

Glattes RC, Asher MA, Burton DC et al, The reliability and concurrent validity of the Scoliosis Research Society-22r patient questionnaire compared with the Child Health Questionnaire-CF87 patient questionnaire for adolescent spinal deformity, Scoliosis Research Society Annual Meeting, Monterey, CA September 2006.

Glattes RC, Asher MA, Burton DC. Causes of spinal imbalance, American Academy of Orthopedic Surgery Annual Meeting, Instructional Course Lecture February 2007.

Glattes RC, Asher MA, Burton DC. Smith Petersen osteotomy technique and surgical video presentation, American Academy of Orthopedic Surgery Annual Meeting, Instructional Course Lecture February 2007.

## REGIONAL PRESENTATIONS

Glattes RC: Management of Thoracolumbar Spine Injuries. AO Course Lectureship, July 2004.

## COMMUNITY ACTIVITIES/PRESENTATIONS

Glattes RC: Back pain, neck pain, arm pain, leg pain: what really matters? KU Midwest Community Wellness Program, November 2004, 2005, 2006.

Glattes RC: Cervical Spine Injury in Workers' Compensation, invited lecturer Kansas City and Wichita Workers' Compensation Conference, September 2007.

## POSTER PRESENTATIONS

Lenke LG, Glattes RC, Orchardski J et al. Single versus dual rod construct for anterior treatment of adolescent idiopathic scoliosis. Scoliosis Research Society International Meeting, Quebec City, Quebec, September 2003.

Brown BS, Glattes RC, McCliff TE et al. Biomechanical analysis of thoracic spine fixation salvage following misplaced pedicle screws.

University of Kansas Faculty Research Day, Kansas City, KS November 2004.

51st Annual Meeting of the Orthopaedic Research Society, Washington DC, February 2005.

Mid-Central States Orthopaedic Society, Osage Beach, MO, June 2005.

## SELECTED WORK EXPERIENCE

Stanley Kaplan: MCAT Course Instructor (1/93-5/95)

Parker Hannifin Corporation, Compumotor Division (6/90-10/91).

Applications/Design engineer for industrial automation systems

New Jersey Institute of Technology, Ski Team: Assistant Coach (1991 and 1992).

New Jersey Institute of Technology, Ski Class Instructor (Winters of 1987, 1988, and 1989).

## PUBLICATIONS

Rohmiller MT, Schwalm D, Glattes RC, et al. Evaluation of calcium sulfate paste for augmentation of lumbar pedicle screw pullout strength. *The Spine Journal* 2002; 2:255-60.

Glattes RC, Taylor B, Riew KD. Anterior Corpectomy or Multilevel Discectomy. *Techniques in Orthopaedics* 2002; 17: 382-390.  
Glattes RC, Spindler KP, Blanchard GM, et al. A simple, accurate method to confirm placement of intra-articular knee injection. *American Journal of Sports Medicine* 2004; 32:1029-31.

Burton DC, McIlff T, Fox T, Lark R, Asher M, Glattes RC. Biomechanical Analysis of Posterior Fixation Techniques in a 360° Arthrodesis Model. *Spine* 2005; 30: 2765-2771.

Glattes RC, Asher M, Burton D, Lai SM. Correction of the angle of trunk inclination utilizing apical wiring techniques and concave apical wiring techniques and concave rib osteotomy in adolescent idiopathic thoracic scoliosis. *Research into Spinal Deformities 5*. D. Uyttendaele and P. H. Dangerfield (Eds.). IOS Press, 2006:321-6. (mini-paper)

Glattes RC, Bridwell KH, Lenke LG et al. Proximal junctional kyphosis in adult spinal deformity: incidence, outcomes and risk factor analysis. *Spine* 2005; 30: 1643-1649.

Burton DC, Glattes RC, Asher MA. Orthopedic Implants for Spine Deformity and Dysplasia In: Lindsey RW; Gugala Z, eds. *Orthopedic Implants: Applications, Complications and Management*, Marcel Dekker (Submitted March 2006)

Asher, M.A.; Lai, S. M.; Glattes, RC. Burton, D. G.; Alanay, A.; Bago, J.: Refinement of the SRS-22 Health-Related Quality of Life Questionnaire Function Domain. *Spine* 2006;31:593-7.

Burton DC, Glattes RC. Measuring outcomes in spinal deformity, *Neurosurgery Clinics of North America*, April 2007, 18(2):403-405.

Glattes RC, Lai SM, Asher MA, Burton DC. The reliability and concurrent validity of the Scoliosis Research Society-22r patient questionnaire compared with the Child Health Questionnaire-CF87 patient questionnaire for adolescent spinal deformity, *Spine*, Article in Press July 15, 2007.

Glattes RC, Lai SM, Burton DC. Outcome Measures in Spinal Deformity. *Operative Spine Surgery* Bridwell and Dewald, 3rd edition in press 2008.

Hollenbeck M, Glattes RC, Lai SM, Asher MA, Burton DC. Proximal and distal junctional kyphosis following posterior or anterior arthrodesis for adolescent idiopathic scoliosis. Submitted for publication August 2007.

## INVITED COURSE INSTRUCTOR

2002 Cervical Spine Practical Anatomy Course, St. Louis, MO

2004 Cervical Spine Practical Anatomy Course, St. Louis, MO

2004 A.O. Spine Workshop, Kansas City, MO

## POSITIONS

2005-2007, Vice President Vanderbilt Orthopaedic Society

2007-present, President Vanderbilt Orthopaedic Society

2006-present, President and Faculty Advisor, University of Kansas Orthopedic Student Interest Group

## AWARDS AND HONORS

Presidential Scholar and University Honors Program, Southwest Missouri State University 1989-1993.

Smith-Glynn Callaway "Most promising pre-medical student" award and scholarship, Southwest Missouri State University, 1993.

Alpha Omega Alpha Honors Society, University of Kansas School of Medicine, 1997.

Hibbs Award Candidate for Outstanding Clinical Research Paper, Scoliosis Research Society International Meeting, Quebec City, Quebec, September 2003.