

Brian R. Braaksma, M.D.

OrthoIllinois

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EDUCATION & TRAINING

2011-2012: **New York University**, New York, NY

- Orthopaedic Spine Surgery Fellow

2006-2011: **Rush University Department of Orthopaedic Surgery**, Chicago, IL

- Resident

2002-2006: **Columbia University College of Physicians and Surgeons**, New York, NY

- M.D. Degree-May 2006
- Alpha Omega Alpha

1998-2002: **Texas Christian University**, Fort Worth, TX

- B.S. Biological Sciences
- Minor: Chemistry
- Graduated Summa Cum Laude

HONORS & AWARDS

Texas Christian University

- Dean's List/TCU Scholar/RGK academic Scholar
- Alpha Epsilon Delta, Premedical Honor Society- Mr. TCU representative
- Phi Beta Kappa

Columbia University College of Physicians and Surgeons

- National Institutes of Health Pre-Doctoral Research Fellowship
- Medical Letters of Distinction in Clinical Rotations- Surgery, Neurology, Urology, Obstetrics/Gynecology, Internal Medicine I, Internal Medicine II
- Alpha Omega Alpha

CERTIFICATION

Board Certified in Orthopedic Surgery

PRESENTATIONS

- 1) Accurate Cadaveric Model for Scapholunate Biomechanics.
Trocchia A; Cooper I-IJ; **Braaksma B**; Bekman R; Rosenwasser MP
 - Poster Presentation 5th Combined Meeting of the Orthopaedic Research Societies of Canada, USA, Japan, and Europe- 2004.

- 2) The Relationship of Intra-Psoas Nerves during a Trans-Psoas Approach to the Lumbar Spine: Anatomical Study.
Park DK, Lee M, Lin EL, **Braaksma B**, An HS, Phillips FM
 - Podium Presentation LSRS Annual Meeting 2009- Chicago, IL
- 3) Comparison of Index and Adjacent Level Kinematics Following Cervical Disc Replacement versus fusion: A Radiographic Analysis.
Park DK, Lin EL, **Braaksma B**, Phillips, FM.
 - Podium Presentation SAS 2009- London, England
- 4) The Effect of Duration on Halo-Gravity Traction.
Park DK, **Braaksma B**, Hammerberg KW, Sturm P.
 - Podium Presentation IMAST 2009
- 5) Predicting Relief of Neck and Arm Pain in Patients Receiving ACDF or TDR: Factors Associated with Response.
Braaksma B, Albert T, Phillips F.
 - Podium Presentation CSRS Annual Meeting 2009- Salt Lake, UT
- 6) Differential Sensitivity of Annulus Fibrosus and Nucleus Pulposus Cells of the Intervertebral Disc to Growth Factors and Cytokines.
Cs-Szabo G, **Braaksma B**, Gerard D, Lundgreu M, Agarwal V, Cien A, An HS, Anderson G.
 - Podium Presentation LSRS Annual Meeting 2010- Chicago, IL

PUBLICATIONS

- 1) **Braaksma B**, Park DK, An HS. Biological therapy: is there a new treatment for low back pain on the horizon? *Rush Journal*. 2009.
- 2) Park DK, **Braaksma B**, Hammerberg KW, Sturm P. The Effect of Duration on Halo-gravity Traction. *Accepted Journal of Spinal Disorder and Techniques*.
- 3) Cs-Szabo G, **Braaksma B**, Gerard D, Agarwal V, Lundgren M, Cien A, An HS. Differential Sensitivity of Annulus Fibrosus and Nucleus Pulposus Cells of the Intervertebral Disc to Growth Factors and Cytokines. *Submitted to Spine*.
- 4) Hussain M, **Braaksma B**, Natarajan R, Fayyazi AH, Andersson G, An HS. Screw angulation affects bone-screw stresses and bone graft load-sharing in anterior cervical corpectomy fusion with a rigid screw-plate construct: a finite element model study. *The Spine Journal*, 2009 Dec;9(12):1016-23.
- 5) Pelinkovic D, **Braaksma B**, Agarwal V, Gieger D. Recurrent Lumbar Disc Herniation: A Retrospective Study on the Treatment of Recurrent Lumbar Disc Herniations with an Anterior Microdiscectomy and Stand alone Anterior Interbody Fusion. *Submitted to Spinal Disorders and Techniques*.
- 6) **Braaksma B**, Phillips F. Cervical Disc Replacement: Is there a motion-sparing alternative to Anterior Cervical Decompression and Fusion? *Rush Journal*. 2010.
- 7) Khan S, **Braaksma B**, An H. Cervical pedicle subtraction osteotomy for fixed flexion deformities. *Submitted to The American Journal of Orthopedics*.

CURRENT RESEARCH

- 1) Predicting Relief of Neck and Arm Pain in Patients Receiving ACDF or TDR: Factors Associated with Response. **Braaksma B**, Agarwal V, Albert T, Phillips F.
- 2) Defining Substantial Clinical Benefit Following ACDF and TDR. **Braaksma B**, Phillips F.
- 3) Effect of Annular Incision Angle on the Change in Biomechanical Properties in a Herniated Lumbar Intervertebral Disc: A Finite Element Model. Sabet H, **Braaksma B**, Natarajan R, An HS.

- 4) Effect of Posterior-Implanted Total Joint Replacement on Lumbar Spine Kinematics, Lawhorne T, **Braaksma B**, Voronov L, Phillips F, Patwardhan AG.
- 5) The Effect of Disc Degeneration on the Lumbar Segmental Axial Motion in Asymptomatic and Chronic Low Back Pain Subjects. Inoue N, **Braaksma B**, Ochia R, Agarwal V, Andersson GBJ, Orias AS, An HS.

ADDITIONAL ACTIVITIES/VOLUNTEER/WORK

Columbia University College of Physicians and Surgeons

- **Columbia Student Support Network**
Volunteer, anatomy tutor: didactic anatomy sessions; cadaveric dissections
- **Columbia Medical Golf Club**
President and Organizer
- **Columbia Medical Free Weight Club**
Officer and Organizer
- **Columbia Rugby Club**
National Champions, Professional School Division

Texas Christian University

- **Harris Methodist Hospital**
Surgical Assistant and Patient Care Technician
- **Habitat for Humanity**
Volunteer: built homes for local families in need
- **Student Support Services**
Tutored and counseled underprivileged students
- **TCU Library**
Worked at the undergraduate library for two years
- **Village Northwest Unlimited**
Support Counselor: Specialized facility dedicated to the care for and rehabilitation of individuals with mental disabilities and head/spinal cord injuries

CONFERENCES/COURSES

- 1) OTA Basic Trauma Course – Boston, MA 2006
- 2) International Trauma Symposium – Fort Lauderdale, FL 2008
- 3) Chicago Trauma Symposium – Chicago, IL 2008
- 4) Smith and Nephew Surgical Dissection Course – Memphis, TN 2009
- 5) Lumbar Spine Research Society – Chicago, IL 2009
- 6) AO Spine: Principles and Treatment of Spinal Disorders – Las Vegas, NV 2009
- 7) Cervical Spine Research Society – Salt Lake, UT 2009
- 8) Lumbar Spine Research Society – Chicago, IL 2010
- 9) DePuy Spine Pre-Fellowship Bioskills Workshop – Las Vegas, NV 2010
- 10) Rush Spine MIS Principles, Approaches, and Techniques Bioskills Workshop – Chicago, IL 2010

MOTOR SKILLS COURSES

- Dr Brian Cole Knee Arthroscopy Course 2009
- Dr Bernard Bach Shoulder Arthroscopy Course Chicago 2009

- Dr Gregory Nicholson Shoulder Arthroscopy Course Chicago 2009
- Dr Nikhil Verma Knee Arthroscopy Course Chicago 2008
- Dr Brian Cole Shoulder Arthroscopy Course Chicago 2008
- Dr Brian Cole Shoulder Arthroscopy Course Chicago 2007
- Dr Charles Bush-Joseph Knee Arthroscopy Course Chicago 2007
- Dr Anthony Romeo Shoulder Arthroscopy Course Chicago 2007
- Dr Nikhil Verma Knee Arthroscopy Course Chicago 2007
- Dr Gregory Nicholson Shoulder Arthroscopy Course Chicago 2006
- Dr Bernard Bach Knee Arthroscopy Course Chicago 2006
- Dr Nikhil Verma Shoulder Arthroscopy Course Chicago 2006

ORGANIZATION MEMBERSHIPS

- AAOS
- NASS
- Alpha Omega Alpha
- Alpha Epsilon Delta (pre-medical honor society)
- Phi Kappa Beta
- AMA

INTERESTS AND EXTRACURRICULAR ACTIVITIES

- Playing Golf
- Watching all sports
- Playing Drums/Guitar
- Weightlifting
- Traveling
- Skiing