

# CURRICULUM VITAE

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## RAHUL V. SHAH, MD

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### Practice Experience

#### **Premier Orthopaedic Associates**

July 2009-Present: Partner/Owner/Orthopaedic Spine Surgeon  
Hospital Priveleges: South Jersey Hospital System, RMC and Elmer

Vineland, NJ

#### **Heart of Florida Back and Spine Center**

*November 2008-June 2009:* Attending Orthopaedics and Spine Surgeon.  
Hospital Priveleges: Heart of Florida Hospital.  
Physician Advisory Council 2009.

Haines City, FL

#### **Parkland Regional Medical Center**

*September 2008-October 2008:* Locum tenens General Orthopaedic Surgeon.  
Hospital Priveleges: Parkland Regional Medical Center.

Derry, NH

#### **Jewett Othopaedic Clinic**

*August 2006- August 2008* Attending Spine Surgeon.  
Hospital Priveleges: Florida Hospital System, Orlando Regional Healthcare.

Winter Park, FL

### Education

#### **University of California, San Francisco**

Spine Surgery Fellowship, July 2006  
Director: Sigurd Berven, MD

San Francisco, CA

#### **Yale University**

General Surgery Internship, June 2001  
Orthopaedic Surgery Residency, June 2005  
Chairman: Gary E. Friedlaender, MD

New Haven, CT

#### **Robert Wood Johnson Medical School**

Doctor of Medicine, May 2000.

Piscataway, NJ

#### **Rutgers University, Rutgers College**

Bachelor of Arts in Biology, May 1997.

New Brunswick, NJ

### Honors

Yale Orthopaedic Anatomy Prize, 2004 and 2005  
Wayne O. Southwick Award  
Yale New Haven Hospital All Star Physician 2003  
Alpha Omega Alpha, National Honor Medical Society, 1999  
Alpha Omega Alpha Research Scholar 1998  
UMDNJ Summer Research Fellow 1997  
UMDNJ Summer Research Fellow 1996  
Howard Hughes Summer Research Scholar 1995  
Articulated BA/MD Program  
Graduated with Honors, 1997  
Member of Golden Key National Honor Society  
Edward J. Bloustein Distinguished Scholar  
Rutgers College Dean's List

**Laboratory Experience** **Yale University** New Haven, CT  
*June 2001-5.* Resident research with Dr. Manohar Panjabi examining biomechanics of thoracolumbar burst fracture with emphasis on biomechanical basis of instability and novel fixation methods using 3-D flexibility, quantitative discomanometry, internal fixation, kyphoplasty, and vertebroplasty. Helped invent Stablimax-NZ.

**St. Peter's Medical Center** New Brunswick, NJ  
*June 1998 -- September 1998.* Alpha Omega Alpha National Honor Medical Society Research Scholar with Dr. A. J. Tria, Jr. and Dr. T. P. Andriacchi. Studied Cruciate Retaining and Cruciate Substituting knee prostheses in a bilateral setting using gait analysis to calculate and compare functional range of motion and functional moment magnitudes.

**Robert Wood Johnson Medical School** New Brunswick, NJ  
*January 1997 -- August 1997. Winter 1998-1999.* Independent Research and UMDNJ Summer Fellow with Dr. M.L. Tiku, Dr. A. J. Tria, Jr. and Dr. J. P. Zawadsky. Studied lipid peroxidation in normal rabbit cartilage and human osteoarthritic cartilage. Used histopathologic techniques of tissue sectioning and immunohistochemistry. Used biological laboratory techniques of tissue culture and spectrofluorescence.

**Clinical Research Center** New Brunswick, NJ  
*Summer 1996.* UMDNJ Summer Research Scholar with Dr. T.J. Thomas group; studied expression of proteins in murine models of lupus. Used techniques of tissue preparation, RT-PCR and DNA electrophoreses.  
*Summer 1995.* Howard Hughes Summer Fellow with Dr. T.J. Thomas group; studied structure and stability of triple-helical DNA. Used heat sensitive ultraviolet spectroscopy and implemented basic laboratory procedures of dialysis and purification.

**Wright-Reiman Laboratories** Piscataway, NJ  
*January 1995- May 1995.* Undergraduate Research Intern with Dr. Roth group; studied structure and reactivity of organic radical cations. Worked on photo-induced radical cation reaction of 1,5-dimethyl-1,4-cyclohexadiene. Implemented basic laboratory procedures of purification and spectroscopy analysis.

**Presentations** Keeping Our Patients Active: The Role of Spine Surgery. American Association of Physicians of Indian Origin. August 2007.

Use of Intraoperative Motor Evoked Potentials in Lumbar Spondylolisthesis Surgery: Correlation to Clinical Outcome. Shah, RV., Fleischer, G., Hwang, K., and Berven, S. Society of Military Orthopaedic Surgeons 48<sup>th</sup> Annual Meeting, December 2006.

Biomechanics of Thoracolumbar Burst Fracture. Department of Orthopaedics Grand Rounds, University of California, San Francisco, California November 2005.

Anterior Approach Revision Total Hip Arthroplasty: Beyond the Minimally Invasive Technique. Kennon, RE., **Shah, RV.**, Keggi, JM., Zatorski, L., and Keggi, KJ. 71<sup>st</sup> Annual Meeting of American Academy of Orthopaedic Surgeons, March 2004.

Blunt Needle Use in Orthopaedic Procedures. Annual Meeting of Orthopaedic Trauma Association, October 2003.

Artificial Disc Biomechanics. Yale Spine Symposia. Providence, Rhode Island. September 2003.

Soft-tissue Stabilization Technologies in the Spine. Department of Orthopaedics Grand Rounds Grand Round, Yale University. New Haven, Connecticut, August 2003.

Spine Arthroplasty. Department of Orthopaedics Grand Rounds, Yale University. New Haven, Connecticut. September 2002.

## Abstracts

Detecting Neurologic Injury across Lumbosacral Junction Using Motor Evoked Potentials. **Shah, RV.**, Lyons, R., Fleischer, G., Hwang, K., and Berven, S. *North American Spine Society*, 2006.

Intraoperative Motor Evoked Potentials: Correlation to Clinical Outcome in Surgery for Lumbar Spondylolisthesis, . **Shah, RV.**, Lyon, R., Fleischer, G., Hwang, K., and Berven, S. *International Society for the Study of the Lumbar Spine* June 2006.

A comparison of the cost effectiveness of lumbar decompression surgery and total hip arthroplasty in matched cohort using quality adjusted life years as a determinant of utility Fleischer, G., Lam, J., **Shah, RV.**, Hwang, K., Burch, S., and Berven, S. *International Society for the Study of the Lumbar Spine*, June 2006.

Novel Injury Scoring for Lumbar Burst Fractures Using Three Dimensional Flexibility Data. **Shah, RV.**, Bruegel-Sanchez, V., Rubin, W., Bokhari, S., and Panjabi, MM. *IMAST*, 2005.

Predicting Mechanical Instability of Thoracolumbar Burst Fractures Using CT Scans. Panjabi, MM, **Shah, RV.**, Rubin, W., Bokhari, S., and Cholwecki, J. *IMAST*, 2005.

CT Scan Can Predict Disc Integrity Secondary to Burst Fracture: Quantitative Discomanometry Validation . Shah, RV., Dushey, C., Rubin, W., Ortega, G., and Panjabi, MM. *IMAST*, 2005.

Industry support and correlation to study outcome for papers published in Spine. **Shah RV**, Albert TJ, Bruegel-Sanchez V, Vaccaro AR, Hilibrand AS, Grauer JN. *IMAST*, 2005

Assessing .Mechanical Instability for Lumbar Burst Fractures Using Existing Classifications. **Shah, RV** Lindskog, D. Bruegel-Sanchez, V., Ortega, GR, Rubin, W and Panjabi , MM. *IMAST* 2005.

Novel Injury Scoring for Lumbar Burst Fractures Using Three Dimensional Flexibility Data. **Shah, RV.**, Bruegel-Sanchez, V., Rubin, W., Bokhari, S., and Panjabi, MM. *International Study for Lumbar Spine*, 2005.

Predicting Mechanical Instability of Thoracolumbar Burst Fractures Using CT Scans. Panjabi, MM, **Shah, RV.**, Rubin, W., Bokhari, S., and Cholwecki, J. *International Study for Lumbar Spine*, 2005.

CT Scan Can Predict Disc Integrity Secondary to Burst Fracture: Quantitative Discomanometry Validation . **Shah, RV.**, Dushey, C., Rubin, W., Ortega, G., and Panjabi, MM. *International Study for Lumbar Spine*, 2005.

Anterior Approach Revision Total Hip Arthroplasty: Beyond the Minimally Invasive Technique. Kennon, RE., **Shah, RV.**, Keggi, JM., Zatorski, L., and Keggi, KJ. *71<sup>st</sup> Annual Meeting of American Academy of Orthopaedic Surgeons*, March 2004.

Blunt Needle Use in Orthopaedic Procedures. Ortega, GR, **Shah, RV**, Hunt, D, and Baumgaertner, MR. *Annual Meeting of Orthopaedic Trauma Association*, October 2003.

Demonstration of Malondialdehyde and Hydroxynonenal Protein Adducts in Osteoarthritic Articular Cartilage. Tiku, M. L., **Shah, R.**, Tria, A. J., and Zawadsky, J. P. *FASEB Journal*, 12: A1046 (Ab 6503) 1998.

Formation of Aldehyde-Protein adducts in Chondrocytes Results in Cartilage Matrix Degradation. Allison, G. T., **Shah, R.**, and Tiku, M. L. *FASEB Journal* 12: A1046 (Ab 6502) 1998.

**Publications** Revision Open Anterior Approaches for Spine Procedures. Gumbs, A., Hanan, S., Yue, J., **Shah, RV.**, and Sumpio, B. *Spine Journal* May-June 2007.

Smoking and Total Disc Arthroplasty Utilizing the Prodisc® Prosthesis: A Prospective Study with 2 Year Minimum Follow-up. Bertagnoli, R., Yue J J, **Shah, RV**, Pfeiffer F., Fenk-Mayer, A., Nanieva, R., and Husted, D. *Spine* April 2006.

The Treatment of Disabling Single Level Lumbar Discogenic Low Back Pain in Patients over 60 with Total Disc Arthroplasty Utilizing the Prodisc® Prosthesis: A Prospective Study with 2 Year Minimum Follow-up. Bertagnoli, R., Yue J J, **Shah, RV**, Pfeiffer F., Fenk-Mayer, A., Nanieva, R., and Husted, D. *Journal Neurosurgery Spine*, February 2006.

The Treatment of Disabling Single Level Lumbar Discogenic Low Back Pain with Total Disc Arthroplasty Utilizing the Prodisc Prosthesis: A Prospective Study with Two Year Minimum Follow-up. Bertagnoli, R., Yue J J, **Shah, RV**, Pfeiffer F., Fenk-Mayer, A., Nanieva, R., and Husted, D. *Spine* October 2005.

The Treatment of Disabling Multi-Level Lumbar Discogenic Low Back Pain with Total Disc Arthroplasty Utilizing the Prodisc Prosthesis: A Prospective Study with Two Year Minimum Follow-up. Bertagnoli, R., Yue JJ, **Shah, RV**, Pfeiffer F, Fenk-Mayer, A., Nanieva, R., and Husted, D. *Spine* October 2005.

The Presence of Molecular Imprints of In-vivo Lipid Peroxidation in Osteoarthritic Cartilage: A Pathogenic Role in Osteoarthritis. **Shah, R.**, Raska, K., and Tiku, ML. *Arthritis and Rheumatism*. September 2005.

Industry support and correlation to study outcome for papers published in Spine. **Shah RV**, Albert TJ, Bruegel-Sanchez V, Vaccaro AR, Hilibrand AS, Grauer JN. *Spine* July 2005.

Lumbar disc herniations. *Orthopedics Hyperguide*, <http://www.ortho.hyperguides.com/> , **Shah R**, Grauer JN, Albert TJ February 2003.

Degenerative disc disease. *Orthopedics Hyperguide*, <http://www.ortho.hyperguides.com/> , **Shah R**, Grauer JN, Albert TJ. February 2003.

Evidence Linking Chondrocyte Lipid Peroxidation to Cartilage Matrix Protein Degradation: Possible Role in the Pathogenesis of Cartilage Aging and Osteoarthritis. Tiku, M. L., **Shah, R.**, and Allison, G. T *Journal of Biological Chemistry*, April 14, 2000.

**Works in Progress** Thoracolumbar Burst Fractures: Novel Fixation Methods  
Thoracolumbar Burst Fractures: Grading Instability Using CT Scan and Biomechanical Data

**Licensure:** New Jersey 2009 25MA08542100  
Florida 2006 ME96545  
California 2005 A91635  
Step III 2002  
Step II 2000  
Step I 1998

**Board Certification:** American Academy of Orthopaedic Surgeons 2008 – 2018.

**Hobbies/Interests** Disc jockeying, rowing, tennis, hiking, canoeing, biking