

**ANAY R. PATEL, M.D.**  
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713-799-2300

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### **EDUCATION**

2005-2009      **The Ohio State University College of Medicine**, Columbus, Ohio  
M.D., *Cum Laude, Alpha Omega Alpha*

2001-2005      **Duke University**  
B.A., Chemistry with focus in Biochemistry

### **POSTGRADUATE TRAINING**

2014-2015      **Hospital for Special Surgery**, New York City, New York  
Fellowship, Adult Reconstruction and Joint Replacement

2010-2014      **Northwestern University, Feinberg School of Medicine**, Chicago, Illinois  
Residency, Orthopaedic Surgery

2009-2010      **Northwestern University, Feinberg School of Medicine**, Chicago, Illinois  
Internship, General Surgery

### **EMPLOYMENT**

2015-Current      **Fondren Orthopedic Group L.L.P.**  
Joint Arthroplasty Surgeon

### **LICENSES AND CERTIFICATIONS**

Active              State of Texas Medical License

Deactivated        State of New York Medical License

Deactivated        State of Illinois Medical License

### **PROFESSIONAL SOCIETY MEMBERSHIPS**

2014 – 2015        American Academy of Hip and Knee Surgeons      (Fellow Member)

2012 – 2014        American Academy of Hip and Knee Surgeons      (Resident Member)

2009 – Current     American Academy of Orthopaedic Surgeons      (Resident Member)

**HONORS AND AWARDS**

- 2014 Alan W. Yasko Award for Outstanding Research Presentation  
Northwestern University Feinberg School of Medicine, Chicago, Illinois  
Department of Orthopaedic Surgery
- 2009 Graduated *Cum Laude*,  
The Ohio State University College of Medicine, Columbus, Ohio
- 2008 Alpha Omega Alpha Medical Honor Society,  
The Ohio State University College of Medicine, Columbus, Ohio
- 2008 Outstanding Academic Achievement Scholarship  
The Ohio State University College of Medicine, Columbus, Ohio
- 2008 - 2009 Ultrasound Honors Study Program  
The Ohio State University College of Medicine, Columbus, Ohio
- 2006 The Bradfield-Watrous Scholarship  
The Ohio State University College of Medicine, Columbus, Ohio
- 2006 The Ohio State University Excellence Award  
The Ohio State University College of Medicine, Columbus, Ohio

**TEAM COVERAGE EXPERIENCE**

- 2011 – 2014 Chicago Blackhawks
- 2011 – 2014 Chicago Public Schools Youth Football Program
- 2013 Big Ten Basketball Tournament

**ADMINISTRATIVE SERVICE**

- 2012 – Current Undergraduate Applicant Interviewer  
Duke University
- 2007 – 2009 Admissions Committee  
The Ohio State University College of Medicine

**GRANTS**

- 2014 - 2015 Hospital for Special Surgery, New York, NY  
Adult Reconstruction and Joint Replacement Research Marmor Grant  
Title: *Biomechanical Consequences of Pie-crusting Ligaments about the Knee*  
Role: Primary Investigator  
Co-Authors: D Padgett, G Westrich, S Haas  
\$10,000

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2012	Mid-America Orthopaedic Association Senior Resident Travel Grant \$2,500
2011	Goldberg Trust Grant Funding for Research Presentation \$1,000

### **PEER-REVIEWED PUBLICATIONS**

**Patel AR**, Sweeney P, Ochenjele G, Wixson R, Stulberg SD, Puri LM. “Radiographically Silent Loosening of the Acetabular Component in Total Hip Arthroplasty.” *Am J Orthop (Belle Mead NJ)*. 2015 Sep;44(9):406-10.

**Patel AR**, Barlow B, Ranawat AS. “Stem Length in Revision Total Knee Arthroplasty.” *Curr Rev Musculoskelet Med*. 2015 Sep 14. [Epub ahead of print].

Goyal NM, **Patel AR**, Yaffe MA, Stulberg SF. “Does Implant Design Influence the Accuracy of Patient Specific Instrumentation in Total Knee Arthroplasty?” *J Arthroplasty*. 2015 Sep;30(9):1526-30. doi: 10.1016/j.arth.2015.03.019. Epub 2015 Mar 31.

**Patel, AR**, Talati, RK, Yaffe, MA, McCoy, BW, Stulberg, SD. “Femoral Component Rotation in Total Knee Arthroplasty: An MRI-Based Assessment of our Options.” *J Arthroplasty*. 2014 Mar 5. [Epub ahead of print] PubMed PMID: 24746490

Yaffe M, Luo M, Goyal N, Chan P, **Patel A**, Cayo M, Stulberg SD. “Clinical, functional, and radiographic outcomes following total knee arthroplasty with patient-specific instrumentation, computer-assisted surgery, and manual instrumentation: a short-term follow-up study.” *Int J Comput Assist Radiol Surg*. 2013 Dec 13. [Epub ahead of print]. Pubmed PMID: 24337791

**Patel AR**, Ghate R, Stulberg SD. “Safe and Accurate Total Knee Replacement Utilizing Patient-Specific Guides.” *Techniques in Orthopaedics*, Vol 28, Number 2, 2013.

**Patel AR**, Patel RM, Thomas D, Bauer TW, Stulberg SD. “*Caveat Emptor*: Two Case Reports of Adverse Inflammatory Soft Tissue Reactions in Total Hip Arthroplasty with Modular Femoral Necks.” *JBJS Case Connector*, 2012 Dec 26;2(4):e80 1–6.

Yaffe, MA, **Patel, AR**, McCoy, BW Luo, M, Cayo, MA, Ghate, R, Stulberg, SD. “Customized Instrumentation and Computer-Assisted Surgery Technology in Total Knee Arthroplasty.” *The Journal of Biomedical Engineering*, 10;57(4):277-82, 2012

**Patel AR**; Crist MK; Nemitz J; Mayerson JL. 2010. “Aspirin and Compression Devices versus Low-molecular-weight Heparin and PCD for VTE Prophylaxis in Orthopaedic Oncology Patients.” *Journal of Surgical Oncology*. 2010 Sep 1;102(3):276-81.

### **MANUSCRIPTS IN PREPARATION**

**Patel AR**, McCoy BW, Yaffe MA, Luo M, Cayo, MA, Ghate, R, Stulberg, SD. “A Detailed Analysis of the Intra-Operative Accuracy of Custom Instrumentation in Total Knee Arthroplasty.” Pending submission to: Clinical Orthopaedics and Related Research

**Patel AR**, Anay R. Patel, Patrick Sweeny, George Ochenjele, Richard Wixson, S. David Stulberg, Lalit M. Puri Puri L. “ Utilization of Computed Tomography to Assess Acetabular Component Stability in the Setting of Osteolysis.”

### **MULTIMEDIA PRESENTATIONS**

**Patel, AR**, Yaffe, MA, Tulati, R, Ghate R, Stulberg SD. *Safe and Accurate Utilization of Patient Specific Instrumentation in Total Knee Arthroplasty.*” American Academy of Orthopaedic Surgeons 2013 Annual Meeting: Chicago, IL, March 19-23, 2013. Video Format.

### **SCIENTIFIC EXHIBITS**

**Patel AR**, Ochenjele G, Sweeney P, Wixson R, Stulberg SD, Puri L. *The Role of Computed Tomography in the Evaluation of Total Hip Arthroplasty and Osteolysis.* AAOS Annual Meeting, New Orleans, Louisiana. March 11- 15, 2014.

### **PODIUM PRESENTATIONS AT PROFESSIONAL MEETINGS**

Goyal N, **Patel A**, Yaffe M, Luo M, Stulberg SD. Does Implant Design Influence the Accuracy of Patient Specific Instrumentation in Total Knee Arthroplasty? Podium Presentation: Mid-America Orthopaedic Association 2014 Annual Meeting; San Antonio, Texas; April 23-27, 2014.

Goyal N, **Patel A**, Yaffe M, Luo M, Stulberg SD. Does Implant Design Influence the Accuracy of Patient Specific Instrumentation in Total Knee Arthroplasty? Podium Presentation: ISTA 26<sup>th</sup> Annual Congress Meeting; Palm Beach, Florida; October 16-19, 2013.

Goyal N, **Patel A**, Yaffe M, Luo M, Stulberg SD. Does Implant Design Influence the Accuracy of Patient Specific Instrumentation in Total Knee Arthroplasty? Podium Presentation: 2013 Members Meeting of The Knee Society; Toronto, Ontario, Canada; September 19-21, 2013.

**Patel AR**, Larson J, Weatherford B, Janicki J. *Timing of Pavlik Harness Application in Pediatric Hip Dysplasia, Can We Wait?* Pediatric Orthopaedic Society of North America, Annual Meeting: Toronto, Ontario. May 1-4, 2013

**Patel AR**, Marecek GM, Puri L. *Radiographically Silent Loosening of the Acetabular Component in Total Hip Arthroplasty.* Mid-America Orthopaedic Association 2013 Annual Meeting: Amelia Island, Florida, April 17-21, 2013.

**Patel AR**, Marecek GM, Kwasny MJ, Puri L. *Osteolysis and the Acetabular Component in Total Hip Arthroplasty: A Computed Tomography-Based Assessment of Stability.* Mid-America Orthopaedic Association 2013 Annual Meeting: Amelia Island, Florida, April 17-21, 2013.

**Patel, AR, Yaffe, MA, Curtis, D, Ghate, R, Stulberg, SD.** *Improved Postoperative Coronal Alignments in Total Knee Arthroplasty: A Case for Patient Specific Guides.* Mid-America Orthopaedic Association 2013 Annual Meeting: Amelia Island, Florida, April 17-21, 2013.

Yaffe, MA, **Patel, AR,** Luo M, Chan P, Goyal N, Stulberg, SD Clinical, Functional, and Radiographic Outcomes Following PSI, CAS, and Manual TKA: A Short-Term Follow-Up Study. Mid-America Orthopaedic Association 2013 Annual Meeting: Amelia Island, Florida, April 17-21, 2013.

**Patel AR,** Marecek GM, Puri L. *Radiographically Silent Loosening of the Acetabular Component in Total Hip Arthroplasty.* AAOS Annual Meeting, Chicago, Illinois. March 19-23, 2013.

**Patel, AR, Yaffe, MA, Luo, M, Ghate, R, Stulberg, SD.** *Evaluating Pre-Operative Coronal Plane Deformity in Total Knee Arthroplasty: Standing Radiographs vs. Patient Specific Instrumentation.* Podium Presentation: International Society for Technology in Arthroplasty 2012 Annual Meeting: Sydney, Australia, October 3-6, 2012.

**Patel, AR, Yaffe, MA, Curtis, D, Sweeney, P, Cayo, M, Ghate, R, Stulberg, SD.** *Early Radiographic Outcomes of Patient-Specific Guides in Total Knee Arthroplasty: Par for the Course?* Podium Presentation: International Society for Technology in Arthroplasty 2012 Annual Meeting: Sydney, Australia, October 3-6, 2012.

Yaffe, MA, **Patel, AR,** Cayo, M, Ghate, R, Meisles, J, Stulberg, SD. *A Comparison of the Accuracy of Patient Specific Instruments in TKA With Arthroplasty and General Orthopaedic Surgeons.* Podium Presentation: International Society for Technology in Arthroplasty 2012 Annual Meeting: Sydney, Australia, October 3-6, 2012.

**Patel AR,** Patel RM, Thomas D, Bauer TW, Stulberg SD. *“Caveat Emptor: Two Case Reports of Adverse Inflammatory Soft Tissue Reactions in Total Hip Arthroplasty with Modular Femoral Necks.”* Podium Presentation. 2012 Summer Meeting of The Hip Society, Rochester, Minnesota. September 13-15, 2012.

**Patel, AR, Yaffe, MA, Tulati, R, Ghate R, Stulberg SD.** *Fidelity of preoperative planning to intraoperative execution in total knee arthroplasty: an analysis of customized instrumentation.* Podium Presentation. 12<sup>th</sup> Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery will: Seoul, Korea, June 13-16, 2012

**Patel, AR, Yaffe, MA, Tulati, R, Ghate R, Stulberg SD.** *Femoral component rotation in total knee arthroplasty: an mri-based evaluation of our options.* Podium Presentation. 12<sup>th</sup> Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery will: Seoul, Korea, June 13-16, 2012

Yaffe, MA, **Patel, AR,** Luo, M, Ghate R, Stulberg SD. *Cas vs. manual tka: no difference in clinical or radiographic outcomes at 5-year follow-up.* Podium Presentation. 12<sup>th</sup> Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery will: Seoul, Korea, June 13-16, 2012

Yaffe, MA, **Patel, AR,** Luo, M, Ghate R, Stulberg SD. *Clinical, functional, and radiographic outcomes of tka performed with customized instrumentation.* Podium Presentation. To be presented at 12<sup>th</sup> Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery will: Seoul, Korea, June 13-16, 2012

**Patel, AR, McCoy, BW, Yaffe, MA, Ghate, R, Stulberg, SD.** *Should Preoperative Deformity Determine Femoral Component Rotation in Total Knee Arthroplasty?* Podium Presentation: Mid-America Orthopaedic Association 2012 Annual Meeting: Bonita Springs, Florida, April 18-22, 2012.

Yaffe, MA, **Patel, AR,** McCoy, B, Luo, M, Cayo, M, Meisles, D, Ghate, R, Meisles, J, Stulberg, SD. *A Comparison of the Accuracy of Customized Instrumentation in TKA between Arthroplasty and General*

*Orthopaedic Surgeons*. Podium Presentation: Mid-America Orthopaedic Association 2012 Annual Meeting: Bonita Springs, Florida, April 18-22, 2012.

Yaffe, MA, McCoy, BW, **Patel, AR**, Ghate, R, Stulberg, SD. *A Comparison of Computer-Based Anatomic Registration Techniques in TKA: CAS and Customized Instrumentation*. Podium Presentation: Mid-America Orthopaedic Association 2012 Annual Meeting: Bonita Springs, Florida, April 18-22, 2012.

Yaffe, MA, McCoy, BW, **Patel, AR**, Stulberg, SD. *A Comparison of Computer-Based Anatomic Registration Techniques in TKA: CAS and Customized Instrumentation*. Podium Presentation: International Society for Technology in Arthroplasty 2011 Annual Meeting: Bruges, Belgium, September 20-23, 2011.

**Patel, AR**, McCoy, BW, Yaffe, MA, Ghate, R, Stulberg, SD. *Should Preoperative Deformity Determine Femoral Component Rotation in Total Knee Arthroplasty?* Podium Presentation: International Society for Technology in Arthroplasty 2011 Annual Meeting: Bruges, Belgium, September 20-23, 2011.

**Patel AR**; Crist MK; Nemitz J; Mayerson JL. *Aspirin and Compression Devices versus Low-molecular-weight Heparin and PCD for VTE Prophylaxis in Orthopaedic Oncology Patients*. Podium Presentation: Musculoskeletal Tumor Society 2009 Annual Meeting: Scottsdale, Arizona. November, 2008.

### **POSTER PRESENTATIONS AT PROFESSIONAL MEETINGS**

**Patel AR**, Dhand S, Ryu RK, Lewandowski RJ, Marecek GM, Stulberg SD, Puri L. *The Role of Potentially Retrievable Inferior Vena Cava Filters in High-Risk Patients Undergoing Joint Arthroplasty*. Poster Presentation. AAOS Annual Meeting, New Orleans, Louisiana. March 11- 15, 2014.

**Patel AR**, Marecek GM, Kwasny MJ, Puri L. *Osteolysis and the Acetabular Component in Total Hip Arthroplasty: A Computed Tomography-Based Assessment of Stability*. Poster Presentation. AAHKS Annual Meeting, Dallas, Texas. November 2-4, 2012.

**Patel AR**, Marecek GM, Puri L. *Radiographically Silent Loosening of the Acetabular Component in Total Hip Arthroplasty*. Poster Presentation. AAHKS Annual Meeting, Dallas, Texas. November 2-4, 2012.

**Patel AR**, Patel RM, Thomas D, Bauer TW, Stulberg SD. *Caveat Emptor: Two Case Reports of Adverse Inflammatory Soft Tissue Reactions in Total Hip Arthroplasty with Modular Femoral Necks*. Poster Presentation: International Society for Technology in Arthroplasty 2012 Annual Meeting: Sydney, Australia, October 3-6, 2012.

**Patel, AR**, Yaffe, MA, Tulati, R, Ghate R, Stulberg SD. *Femoral component rotation in total knee arthroplasty: an mri-based evaluation of our options*. Poster Presentation: International Society for Technology in Arthroplasty 2012 Annual Meeting: Sydney, Australia, October 3-6, 2012.

Yaffe, MA, **Patel, AR**, Luo, M, Chan, P, Cayo, M, Stulberg, SD. *Clinical, Functional, and Radiographic Outcomes Following PSI, CAS, and Manual TKA: A Short-Term Follow-Up Study*. Poster Presentation: International Society for Technology in Arthroplasty 2012 Annual Meeting: Sydney, Australia, October 3-6, 2012.

**Patel, AR**, Yaffe, MA, Ghate R, Stulberg SD. *Evaluating pre-operative coronal plane deformity in total knee arthroplasty: standing radiographs vs. customized instrumentation software*. Poster Presentation. 12<sup>th</sup> Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery will: Seoul, Korea, June 13-16, 2012

**Patel, AR, McCoy, BW, Yaffe, MA, Ghate, R, Stulberg, SD.** *Should Preoperative Deformity Determine Femoral Component Rotation in Total Knee Arthroplasty?* Poster Presentation: 125th Annual Meeting of The American Orthopaedic Association: Washington, DC, June 27-30, 2012

**Patel, AR, McCoy, BW, Yaffe, MA, Ghate, R, Stulberg, SD.** *Should Preoperative Deformity Determine Femoral Component Rotation in Total Knee Arthroplasty?* Poster Presentation: The American Academy of Orthopaedic Surgeons 2012 Annual Meeting: San Francisco, California, February 7-11, 2012.

**Patel, AR, McCoy, BW, Yaffe, MA, Ghate, R, Stulberg, SD.** *Should Preoperative Deformity Determine Femoral Component Rotation in Total Knee Arthroplasty?* Poster Presentation: Hospital for Special Surgery 23rd Annual Holiday Total Knee Course: New York, New York, November 29-December 3, 2011.

Yaffe, MA, **Patel, AR, McCoy, B, Luo, M, Cayo, M, Meisles, D, Ghate, R, Meisles, J, Stulberg, SD.** *A Comparison of the Accuracy of Customized Instrumentation in TKA between Arthroplasty and General Orthopaedic Surgeons.* Poster Presentation: International Society for Technology in Arthroplasty 2011 Annual Meeting: Bruges, Belgium, September 20-23, 2011.

Marecek M, Choi D, **Patel AR, Stulberg SD, Puri L.** *Computed Tomography To Assess Acetabular Loosening Prior To Revision Hip Arthroplasty.* Poster Presentation: Mid-America Orthopedic Association 2011 Annual Meeting: Tucson, Arizona. April 6-10, 2011.

Marecek M, Choi D, **Patel AR, Stulberg SD, Puri L.** *Computed Tomography To Assess Acetabular Loosening Prior To Revision Hip Arthroplasty.* Poster Presentation: American Academy of Orthopaedic Surgeons 2011 Annual Meeting: San Diego, California, February 15-19, 2011.

### **EXTRACURRICULAR EXPERIENCE**

2010 - 2014                      **Northwestern Orthopaedic Institute**, Northwestern University, Chicago, Illinois  
Project coordinator: Computer-assisted surgery and patient specific instrumentation in total knee arthroplasty.

2012 – 2014                      **Orthobullets**  
Contributing author including content updates, question writer, question reviewer

2011 – 2013                      **Orthopaedic Knowledge Online**  
Contributing author and question writer

### **CURRENT RESEARCH**

**Patel AR, Larson J, Weatherford B, Janicki J.** *Timing of Pavlik Harness Application in Pediatric Hip Dysplasia.* Submitted.

**Patel AR, Ghate R, Stulberg SD.** *Patient Specific Instrumentation in Total Knee Arthroplasty: The Impact on and Perceptions of Operating Room Staff.* IRB Approved.

**Patel AR, Switaj P, Weatherford B, Merk B.** *Northwestern Memorial Hospital Fracture Database.* IRB Approved

**PROFESSIONAL MEETINGS ATTENDED**

- 2015 American Academy of Orthopaedic Surgeons, Annual Meeting, Las Vegas, Nevada, USA
- 2014 American Academy of Orthopaedic Surgeons, Annual Meeting, New Orleans, Louisiana, USA
- 2013 Mid-America Orthopaedic Association, Annual Meeting, Amelia Island, Florida, USA
- 2013 American Academy of Orthopaedic Surgeons, Annual Meeting, Chicago, Illinois, USA
- 2012 American Association of Hip and Knee Surgeons, Annual Meeting, Dallas, Texas, USA
- 2012 International Society for Technology in Arthroplasty Annual Meeting, Sydney, Australia
- 2012 12<sup>th</sup> Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery, Seoul, Korea
- 2012 Mid-America Orthopaedic Association 30<sup>th</sup> Annual Meeting, Bonita Spring, Florida, USA
- 2011 International Society for Technology in Arthroplasty Annual Meeting, Bruges, Belgium
- 2011 Chicago Trauma Symposium, Chicago, Illinois, USA
- 2010 Chicago Trauma Symposium, Chicago, Illinois, USA
- 2009 Musculoskeletal Tumor Society Annual Meeting, Scottsdale, Arizona

**PROFESSIONAL COURSES ATTENDED**

- 2015 Current Concepts in Joint Replacement, Las Vegas, Nevada
- 2014 Revision Arthroplasty, International Congress for Joint Reconstruction, Philadelphia, Pennsylvania
- 2011 AO Basic Principles and Techniques of Operative Fracture Management, Chicago, Illinois
- 2011 OTA Comprehensive Fracture Course, Schaumburg, Illinois