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## **EDUCATION**

6/2005 Jefferson Medical College, (**MD**), Philadelphia, Pennsylvania  
5/2001 Pennsylvania State University (**BS, Premedical**), University Park, PA

## **PROFESSIONAL EXPERIENCE**

9/11-Present Arthroplasty Surgeon, Anderson Orthopaedic Clinic, Arlington, VA  
8/10-7/11 Fellowship in Adult Reconstruction, Thomas Jefferson University Hospital,  
Rothman Institute, Philadelphia, PA  
7/06-6/10 Residency in Orthopaedic Surgery, Thomas Jefferson University Hospital,  
Rothman Institute, Philadelphia, PA  
6/05-6/06 Internship in General Surgery and Orthopaedics, Thomas Jefferson University  
Hospital, Philadelphia, PA

## **CERTIFICATION**

2010 Virginia MD License, Maryland MD License  
2010 ABOS, Part I Exam (Passed July 2010)  
2007 AO North America Basic Principles and Techniques of Operative Fracture Mgmt.  
2006 USMLE Step 1/2/3 Passed  
2005 Advanced Trauma Life Support (ATLS), Philadelphia, PA  
2005 Advanced Cardiac Life Support (ACLS), Philadelphia, PA  
2005 Pennsylvania MD License

## **COMMITTEE APPOINTMENTS**

2010 Orthopaedic Resident Selection/Interview Committee, TJUH  
2009-2010 Chief Orthopaedic Resident, TJUH Orthopaedic Surgery Residency Program:  
Responsible for resident scheduling, morbidity & mortality conference, lecture  
assignments, and clinical supervision  
2007-2010 American Academy of Orthopaedic Surgery, TJUH Resident Liaison

## **PROFESSIONAL MEMBERSHIPS**

2010-Present American Assoc. of Hip & Knee Surgeons (AAHKS), Member  
2005-Present American Academy of Orthopaedic Surgery (AAOS), Member  
2005-2011 Philadelphia Orthopedic Society (POS), Resident Member  
2003-Present Alpha Omega Alpha (AOA) Medical Honor Society

## **LECTURES**

- 2012 AAOS Instructional Course Lecture (ICL): Pain Management following Total Joint Arthroplasty. *2012 Annual Meeting, American Academy of Orthopaedic Surgery (AAOS)*, San Francisco, CA
- 2011 AAOS Maintenance of Certification (MOC) Course; Boston, MA, November 2011: Periprosthetic Joint Infection, Biomechanics Principles
- 2010 Grand Rounds: Health Care Reform; Thomas Jefferson University Hospital, April 8<sup>th</sup>, 2010.
- 2009 Internal Fixation of Foot & Ankle Fractures; AO North America Nursing Continuing Education Orthopaedic Bioskills Workshop

## **HONORS / AWARDS**

- 2012 Knee Society: Chitranjan Ranawat Award, Presenter/Award Recipient. Knee Society Specialty Day, American Academy of Orthopaedic Surgery (AAOS) Annual Meeting.
- 2011 Top Resident/Fellow Paper Award, Eastern Orthopaedic Association (EOA) Annual Meeting, Williamsburg, VA
- 2010 The Everett J. Gordon Award, Thomas Jefferson University Hospital Orthopaedic Program. Awarded to the resident demonstrating the most “outstanding clinical & surgical achievement.”
- 2005 William D. Bodine Research Award, Jefferson Medical College Class of 2005. Awarded to the medical student in the graduating class demonstrating the most “tenacity and dedication” in research.
- 2003 Junior Year Selection, Alpha Omega Alpha Society (AOA)
- 2003 American Academy of Neurology (AAN), Medical Student Research Scholarship
- 2002 Translational Cancer Research Program, Summer Research Fellowship Award, JMC, Philadelphia, PA
- 2002 Neurology Research Program, Research Fellowship Grant, JMC, Philadelphia, PA
- 1999-2001 Dean’s List (four of four semesters), PSU, University Park, PA

## **EDITORIAL POSITIONS**

- 2011-Present BMC Musculoskeletal Disorders, Reviewer

## **LABORATORY RESEARCH EXPERIENCE**

- 3/04-6/05 Research Student, Orthopaedic Spine Research Laboratory, The Rothman Institute; Mentor: Alexander R. Vaccaro, M.D.
- 1/02-6/05 Research Student, Cognitive Neuroscience fMRI Laboratory, Thomas Jefferson University; Mentor: Joseph Tracy, PhD
- 6/02-6/05 Research Student, Clinical Pharmacology Laboratory, Thomas Jefferson University; Mentor: Scott Waldman, M.D., PhD

## **ABSTRACTS / PRESENTATIONS**

1. Parvizi J, Morrison WB, Zoga AC, **Goyal N**. Three-Dimensional Magnetic Resonance Imaging Analysis of Hip Morphology in the Assessment of Femoral Acetabular Impingement. *75<sup>th</sup> Annual Meeting, American Academy of Orthopaedic Surgery*, San Francisco, CA, 2008.
2. **Goyal N**, Miller A, McKenzie J, Austin MS, Parvizi J, Viscusi E, Hozack WJ. A double-blinded, randomized prospective study to determine the efficacy of intraarticular analgesia with bupivacaine for postoperative pain control following total knee arthroplasty. *41<sup>st</sup> Annual Meeting, Eastern Orthopaedic Association*, Naples, FL, 2010.
3. Porat M, **Goyal N**, Delasotta L, Parvizi J, Orozco F, Ong A. Neurophysiologic Monitoring with Transcranial Electric Motor Evoked Potential (tceMEP) during Acetabular and Pelvic Fracture Internal Fixation Surgery. *2011 Annual Meeting, American Academy of Orthopaedic Surgery (AAOS)*, San Diego, CA, 2011.
4. **Goyal N**, McKenzie J, Miller A, Parvizi J, Hozack WJ, Austin MS. Efficacy of Postoperative Intraarticular Analgesia Following Total Knee Arthroplasty: A Randomized, Double-Blinded, Prospective Study. *42<sup>nd</sup> Annual Meeting, Eastern Orthopaedic Association*, Williamsburg, VA, 2011.
5. **Goyal N**, McKenzie J, Miller A, Austin MS, Parvizi J, Hozack WJ. Efficacy of Postoperative Intraarticular Analgesia Following Total Knee Arthroplasty: A Randomized, Double-Blinded, Prospective Study. *Closed Meeting of the Knee Society* 2011.
6. **Goyal N**, McKenzie J, Miller A, Parvizi J, Hozack WJ, Austin MS. Efficacy of Postoperative Intraarticular Analgesia Following Total Knee Arthroplasty: A Randomized, Double-Blinded, Prospective Study. *2012 Annual Meeting, American Academy of Orthopaedic Surgery (AAOS)*, San Francisco, CA, 2011.
7. **Goyal N**, Diaz C, Tripathi M, Austin MS, Parvizi J. Revision Total Hip Arthroplasty: Can Previous Operative Reports Be Relied on for Planning Purposes? *2012 Annual Meeting, American Academy of Orthopaedic Surgery (AAOS)*, San Francisco, CA, 2011.
8. **Goyal N**, Restrepo C, Witmer D, Parvizi J, Hozack WJ. Workers' Compensation Patients after Total Joint Arthroplasty: Do They Return to Work? *2012 Annual Meeting, American Academy of Orthopaedic Surgery (AAOS)*, San Francisco, CA, 2011.
9. **Goyal N**, Deirmengian GK, Rangavajjula A, Parvizi J, Austin MS. Revision Total Knee Arthroplasty in the Young Patient. *2012 Annual Meeting, American Academy of Orthopaedic Surgery (AAOS)*, San Francisco, CA, 2011.
10. Wong JC, Deirmengian GK, Deirmengian CA, **Goyal N**, Austin MS. Head Computed Tomography is not Useful for Patients with Neurologic Symptoms Following Total Joint

Arthroplasty. *21<sup>th</sup> Annual Meeting, American Association of Hip & Knee Surgeons (AAHKS)*, Dallas, TX, 2011. (Poster)

## **BIBLIOGRAPHY**

### **Book Chapters / Review Articles**

1. Wimberley DW, **Goyal N**, Zeiller S, Yuan PS, Goins MC, Vaccaro AR. Advances in Surgical Techniques and Instrumentation and their Impact on the Spinal Cord Injury Rehabilitation Process. Topics in Spinal Cord Injury Rehabilitation. 10:2, 35-48, 2004.
2. **Goyal N**, Vaccaro AR. Minimal Access Exposure for Posterior Lumbar Instrumented Fusions: Is there an Easier Way? *Surgical Anatomy & Techniques to the Spine* (Textbook). Editors: Kim DH, Henn JH, Vaccaro AR, Dickman C. (2005).
3. **Goyal N**, Austin MS. Pain Management Following Total Joint Arthroplasty. Seminars in Arthroplasty. 19:3, 226-230, 2008.
4. **Goyal N**, Porat M, Austin MS. Revision Total Hip Arthroplasty: Implants. Interactive Educational Program: Total Joint (Online Interactive Textbook). Editor: Mont M. (2009).
5. **Goyal N**, Hozack WJ. Knee Biomechanics & Biomaterials. *Knee Arthroplasty: The Essentials* (Textbook). Editor: Parvizi J. 2010.
6. **Goyal N**, Parvizi J. Why is MRSA so Virulent? Orthopedics Today. November 2010.
7. **Goyal N**, Hozack B, Parvizi J. Mechanical Failure of Modern Total Knee Arthroplasty. Current Orthopaedic Practice. 22:3, 236-240, 2011.
8. **Goyal N**, Hozack WJ. Neck-Modular Stems: Advantages & Disadvantages. Surgical Technology International. 10/2010; XX: 309-313.
9. **Goyal N**, Tripathi M, Parvizi J. Dual-Mobility Cups: Pro's and Con's. Surgical Technology International. 12/2011; XXI: 227-232
10. **Goyal N**, Aggarwal V, Parvizi J. MRSA Screening: A Worthwhile Endeavor. Journal of Knee Surgery. 25(1):37-43, 2012.
11. **Goyal N**, Austin M. Hip Instability: Prevention and Management. Orthopaedic Knowledge Online (OKO). Published 4/1/2012  
[http://orthportal.aaos.org/oko/article.aspx?article=OKO\\_ADU048](http://orthportal.aaos.org/oko/article.aspx?article=OKO_ADU048)

12. **Goyal N**, Austin M. Principles of Knee Revision Surgery. Orthopaedic Knowledge Online (OKO). Published 6/1/2012  
[http://orthoport.aaos.org/emedial/abstract.aspx?resource=EMEDIA\\_ADU051V001](http://orthoport.aaos.org/emedial/abstract.aspx?resource=EMEDIA_ADU051V001)
13. **Goyal N**, Purtill JJ. Periprosthetic Knee Infections: Contributing Factors. AAOS Monograph: Revision Total Knee Arthroplasty. 2012. Editor: Parvizi J.
14. **Goyal N**, Hamilton WG, Engh GA. The Anderson Orthopaedic Research Institute (AORI) Classification of Bone Loss. The Knee: Reconstruction, Replacement, and Revision (Textbook). October 2012.
15. **Goyal N**, Miller A, Tripathi, M, Parvizi J. INSTRUCTIONAL REVIEW: Methicillin-resistant Staphylococcus aureus (MRSA). Journal of Bone & Joint Surgery (Br). 95-B(1): 4-10. January 2013.
16. **Goyal N**, Engh CAE Jr. Cementless Femoral Stems: Is there an optimum? Seminars in Arthroplasty. (Manuscript in progress).
17. Siram G, **Goyal N**, Engh CAE Jr. Evaluation and Management of Periacetabular Osteolysis. Seminars in Arthroplasty. (Manuscript in progress).

### **Peer-Reviewed Manuscripts**

1. Wimberley DW, Vaccaro AR, **Goyal N**, Anderson DG, Harrop JW, Albert TJ, Hilibrand AS. Acute Quadriplegia Following Closed Traction Reduction of Cervical Facet Dislocation in the Setting of Ossification of the Posterior Longitudinal Ligament: A Case Report. Spine. 30:15, E433-E438, 2005.
2. Klatt BA, **Goyal N**, Austin MS, Hozack WJ. Custom-Fit Total Knee Arthroplasty (OtisKnee) Results in Malalignment. Journal of Arthroplasty. 23:1, 26-29, 2008.
3. **Goyal N**, Wimberley DW, Zeiller S, Hilibrand AS, Albert TJ. Radiographic and Clinical Outcomes Following Instrumented Reduction and Transforaminal Lumbar Interbody Fusion of Mid and High-Grade Adult Isthmic Spondylolisthesis. Journal of Spinal Disorders & Techniques. 22:5, 321-327, 2009.
4. **Goyal N**, Diaz-Ledezma C, Tripathi M, Austin MS, Parvizi J. Do previous operative reports provide the critical information necessary for revision total hip arthroplasty? Journal of Arthroplasty. 2012 Jun;27(6):1023-6.
5. **Goyal N**, Matar WY, Parvizi J. Assessing patellar tracing during total knee arthroplasty: A technical note. Am J Orthop. 2012 Oct;41(10):450-1.
6. **Goyal N**, Mckenzie J, Sharkey PF, Parvizi J, Hozack WJ, Austin MS. The 2012 Chitranjan Ranawat Award: Intraarticular Analgesia After TKA Reduces Pain: A Randomized, Double-Blinded, Placebo-Controlled, Prospective Study. Clin Orthop Relat

Res. 2013 Jan;471(1):64-75.

7. Clyde C, **Goyal N**, Restrepo C, Witmer D, Parvizi J, Hozack WJ. Workers' Compensation Patients After Total Joint Arthroplasty: Do they Return to Work? Journal of Arthroplasty (pending publication).

### **Manuscripts/Studies In Progress**

1. **Goyal N**, Miller A, Purtill JJ, Parvizi J. Orthopaedic Surgery Residency Applicants: Their Criteria for Program Selection, Expectations, and Information Source.
2. **Goyal N**, Austin MS, Miller A, Parvizi J, Rothman RH. Mid-term outcomes after intraoperative treatment of medial collateral ligament (MCL) injury during total knee arthroplasty.
3. **Goyal N**, Zmistowski B, Clyde C, Parvizi J, Deirmengian G. Gastrocnemius Flap Coverage for Soft Tissue Coverage in Revision Total Knee Arthroplasty.
4. Parvizi J, Zmistowski B, **Goyal N**. Treatment of Periprosthetic Joint Infection. Journal of Bone & Joint Surgery (British).

### **Textbooks**

1. The Knee: Reconstruction, Replacement, and Revision. Section Editor: Revision Total Knee Arthroplasty.
2. The Hip: Preservation, Replacement, and Revision. Editors: Parvizi J, Goyal N, Cashman J. (In Progress).

### **CO-CURRICULAR**

Sports: Running, Hockey (Inline/Ice), Tennis  
Outdoor: Hiking, Rock Climbing  
Other: Reading Novels, Traveling