

## Curriculum Vitae

# J. Stuart Melvin, M.D.

### Office Contact Information:

Work: Washington Orthopaedics and Sports Medicine

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### Education:

Undergraduate: 2001 – B.S., Biology – Highest Distinction  
University of North Carolina at Chapel Hill

Graduate: 2005 – M.D., with Distinction  
University of North Carolina at Chapel Hill School of Medicine

Postgraduate: 2005-2006, Orthopaedic Surgery/General Surgery Internship  
Hospital of the University of Pennsylvania, Philadelphia, PA

2006-2010, Orthopaedic Surgery Residency  
Hospital of the University of Pennsylvania, Philadelphia, PA

2010-2011, Orthopaedic Trauma Fellowship  
Carolinas Medical Center, Charlotte, NC

2011, Adult Hip and Knee Reconstruction Fellowship  
OrthoCarolina Hip and Knee Center, Charlotte, NC

Medical Licensure: Washington, DC  
Maryland  
Virginia  
North Carolina

### Specialty Certification:

2013 – Diplomate, American Board of Orthopaedic Surgery

### Faculty Appointment:

2006-2010 - Instructor B, Department of Orthopaedic Surgery,  
University of Pennsylvania School of Medicine

**Awards, Honors and Membership in Honorary Societies:**

1995	North Carolina High School State Doubles Tennis Champion
1997	Valedictorian, Graham High School, Graham, North Carolina
1997	1st Team Academic All State, Basketball, North Carolina
1997-2001	University of North Carolina at Chapel Hill, Honors Program
1997-2001	University of North Carolina at Chapel Hill, James Copland Scholar
1998-2001	Lambda Chi Alpha Fraternity
2000	Phi Beta Kappa
2001	Highest Distinction, University of North Carolina Chapel Hill ( <i>awarded to students with &gt; 3.85 GPA at graduation</i> )
2001-2005	Academic Honors for First, Second, Third, and Fourth Year Coursework
2002-2003	Holderness Medical Research Fellow
2004	Alpha Omega Alpha Medical Honor Society
2005	With Distinction, University of North Carolina School of Medicine ( <i>awarded to the top 5% of the graduation class</i> )
2014	OrthoCarolina Catalyst Award

**Professional Society Affiliations**

2005-2010	Philadelphia Orthopaedic Society – Resident Member
2013-present	American Association of Hip and Knee Surgeons – Active Fellow
2014-present	American Academy of Orthopaedic Surgeons – Active Fellow
2015-present	Orthopaedic Trauma Association – Active Member

**Editorial Positions:**

2011-present	Review Panel for the journal “Orthopedics”
2012-present	Reviewer – Journal of Arthroplasty

**Academic and Institutional Committees:**

2006-2010	Resident Application Committee – University of Pennsylvania Department of Orthopaedic Surgery
2008-2010	Orthopaedic Surgery Representative to the Housestaff Committee - University of Pennsylvania Health System
2008	Resident Member – Hospital of the University of Pennsylvania Department of Orthopaedic Surgery Chairman Search Committee
2009	Resident Interview Panel – University of Pennsylvania Department of Orthopaedic Surgery
2008-2010	University of Pennsylvania Resident Liaison to the American Academy of Orthopaedic Surgeons

2012-2016	Finance Committee – OrthoCarolina
2013- 2016	OrthoCarolina Foundation - Board Member
2014-2016	Mallard Creek Surgery Center – Medical Review Committee
2014- 2016	Evidence Based Medicine Committee – American Association of Hip and Knee Surgeons
2015	Abstract Reviewer – American Association of Hip and Knee Surgeons
2016-2017	OrthoVirginia BPCI committee
2016-2017	OrthoVirginia EPIC Specialty Champion – Hip and Knee Arthroplasty
2016-2017	OrthoVirginia Joint Replacement State Committee

### **Lectures by Invitation:**

- **“What can the AAOS do for you?”** AAOS Resident Liaison Presentation - Grand Rounds, University of Pennsylvania Department of Orthopaedic Surgery – April 2009
- **A review of Orthopaedic Nursing** – Presbyterian Orthopaedic Hospital Nursing Review Lecture Series, Charlotte, NC – October 2011.
- **Orthopaedic Trauma: Pelvis to the knee** – 2011 Orthopaedic Trauma Principles Conference, Presbyterian Hospital, Charlotte, NC- December 2011.
- **Careers in Adult Reconstruction. Is it for you?** – High School Explorers – OrthoCarolina, Charlotte, NC – January 2012.
- **A review of Orthopaedic Nursing** – Presbyterian Orthopaedic Hospital Nursing Review Lecture Series, Charlotte, NC – February 2012.
- **Orthopaedic Trauma: Pelvis to the knee** – Orthopaedic Trauma Principles Conference, Presbyterian Hospital, Charlotte, NC – December 2013.
- **Orthopaedic Trauma: Pelvis to the knee** – Orthopaedic Trauma Principles Conference, Presbyterian Hospital, Charlotte, NC – August 2014.
- **Orthopaedic Trauma: Pelvis to the knee** – Orthopaedic Trauma Principles Conference, Presbyterian Hospital, Charlotte, NC – August 2015.
- **Same Day Discharge Hip and Knee Arthroplasty** – Reston Orthopaedic Surgery Department, Reston, VA – April 2016.
- **Multimodal Analgesia in Hip and Knee Arthroplasty** - Hips and Knees in the Carolinas – Current Concepts in Arthroplasty, Charlotte, NC – April 2016
- **Same Day Discharge Hip and Knee Arthroplasty** - Hips and Knees in the Carolinas – Current Concepts in Arthroplasty, Charlotte, NC – April 2016
- **Anterior Approach Total Hip Arthroplasty** – Reston Hospital Community Education Series, Reston, VA – October 2016.

**Peer- Reviewed Publications:**

- **Melvin JS**, Dahners LE. Correction of Equinus Contracture with a Wire Fixator Using Elastic Tension. *J Ortho Trauma* 2006;20:138-42.
- King JJ, **Melvin JS**, Iwenofu OH, Fox EJ. Thigh Pain in a 53-year-Old Woman. *Clin Orthop Relat Res.* 2009; 267:1652-7.
- **Melvin JS**, MacKenzie JD, Nacke E, Sennett BJ, Wells L. Magnetic Resonance Imaging and the HAGL Lesion: Four arthroscopically confirmed cases of false positive MRI diagnosis. *Am J Roentgenol.* 2008;191(3):730-4.
- **Melvin JS**, Downing K, Ogilvie CM. A technique for removal of broken cannulated tri-cortical syndesmotic screws. *J Ortho Trauma* 2008;22:648-51.
- **Melvin JS**, Kim P, Schuster J, Mehta S. Use of the Licox® in a head-injured patient with a tibial shaft fracture: A novel method of assessing the effect of reamed intramedullary nailing on brain tissue oxygenation. *Injury Extra* 2009;40:1-3.
- **Melvin JS**, Mackenzie JD, Sennett BJ, Wells L. Letter to the editor reply re: Resonance Imaging and the HAGL Lesion: Four arthroscopically confirmed cases of false positive MRI diagnosis. *Am J Roentgenol* 2009;193:W76.
- **Melvin JS**, Dombroski D, Torbert J, Kovach SJ, Esterhai JL, Mehta S. Open Tibial Shaft Fractures Part I: Evaluation and Initial Wound Management *J Am Academy Orthop Surg* 2010;18:10-19.
- **Melvin JS**, Dombroski D, Torbert J, Kovach SJ, Esterhai JL, Mehta S. Open Tibial Shaft Fractures Part II: Definitive Management and Limb Salvage *J Am Academy Orthop Surg* 2010;18:108-17.
- **Melvin JS**, Matuszewski PE, Scolaro J, Baldwin K, Mehta S. The role of Computed Tomography in the Diagnosis and Management of Femoral Neck Fractures in the Geriatric Patient. *Orthopaedics* 2011; 34:87.
- **Melvin JS**, Mehta S. Patella Fractures in Adults. *J Am Academy Orthop Surg* 2011;19:198-207.
- **Melvin JS**, Smith JL, Sims SH, Patt JC. Use of an interference fit retrograde nail as an adjunct to plate fixation of a complex Vancouver B1 periprosthetic femoral fracture. *Injury.* 2012;43:1779-82.
- **Melvin JS.** Comment on article “Cement-in-Cement Revision for Selected Vancouver Type B1 Femoral Periprosthetic Fractures: A Biomechanical Analysis. *J Arthroplasty.* 2013;28:1446.
- **Melvin JS**, Pulos N, Baldwin K, Mirza A, Gardner M, Mehta S. An analysis of the demographic and technical characteristics associated with iliac cortical perforation during insertion of iliosacral screws. *Univ Penn Ortho J.* 2014;24:21-22.

- **Melvin JS**, Karthikeyan T, Cope R, Odum S, Fehring TK. Early Failure in Total Hip Arthroplasty: A Changing Paradigm. *J Arthroplasty*. 2014;29:1285-8.
- Mudrick C, **Melvin JS**, Springer BD. Late posterior hip instability after lumbar spinopelvic fusion: A case report. *Arthroplasty Today*. 2015; 1:25-29.
- **Melvin JS**, Stryker LS, Sierra RJ. Tranexamic Acid in Total Hip and Knee Arthroplasty. *J Am Academy Orthop Surg*. 2015; 23:732-40.
- **Melvin JS**, Stryker LS, Sierra RJ. Letter to the Editor Reply – Tranexamic Acid in Total Hip and Knee Arthroplasty. *J Am Academy Orthop Surg*. 2016; 24:e59
- Collinge C, Hymes R, **Melvin JS** et al. Locked Plating Of Proximal Femur Fractures: A Multi-Center Analysis Of Outcomes And Predictors Of Failure. (Accepted Journal of Orthopaedic Trauma)

#### **Abstracts and Podium Presentations:**

- **Melvin JS**, Mackenzie JD, Wells L, Sennett BJ. Magnetic Resonance Imaging and the HAGL Lesion: Four arthroscopically confirmed cases of false positive MRI diagnosis. Poster Presentation at the American Academy of Orthopaedic Surgery 75th Annual Meeting, San Francisco, CA, March 5-9, 2008.
- **Melvin JS**, Scolaro J, Mehta S. An evaluation of the effect of computed tomography on the Garden Classification and treatment plan for femoral neck fractures in the elderly. Podium Presentation at The University of Pennsylvania Department of Orthopaedic Surgery Research Day, Philadelphia, PA, June 3, 2010
- Hymes R, **Melvin JS**. Locked Plating of Proximal Femur Fractures: Outcomes and Predictors of Failure. Podium Presentation at Carolinas Medical Center Department of Orthopaedic Surgery Research Day, Charlotte, NC, June 10, 2011
- **Melvin JS**, Pulos N, Baldwin K, Mirza A, Gardner M, Mehta S. An analysis of the demographic and technical characteristics associated with iliac cortical perforation during insertion of iliosacral screws. Podium Presentation at the Orthopaedic Trauma Association Annual Meeting, San Antonio, TX October 14, 2011
- **Melvin JS**, Karthikeyan T, Cope R, Odum S, Fehring TK. Early Failure in Total Hip Arthroplasty: A Changing Paradigm. Poster Presentation at the American Academy of Orthopaedic Surgery Annual Meeting 2013.
- **Melvin JS**, Cope R, Fehring TK. The role of hip aspiration in the diagnosis of total hip arthroplasty infection in metal on metal bearings. Poster Presentation at the American Academy of Hip and Knee Surgeons Annual Meeting 2013.
- **Melvin JS**, Cope R, Fehring TK. The role of hip aspiration in the diagnosis of total hip arthroplasty infection in metal on metal bearings. Poster Presentation at the American Academy of Orthopaedic Surgeons Annual Meeting 2014.

**Book Chapters**

- **Melvin JS**, Heppenstall RB: *Hip Fractures*, in Sheth, N.P., Lonner, J.L, (Ed), Gowned and Gloved Orthopaedics: Introduction to Common Procedures, ed 1. Philadelphia, PA: Saunder, Elsevier. 2009. pp 196-214.
- **Melvin JS**, Boselli K, Huffman GR. *Humerus and Elbow Fractures*. In Pignolo RJ, Keenan MA, Hebel NM (Ed), *Fractures in the Elderly: A Guide to Practical Management*. Philadelphia, PA: Humana Press. 2010. pp 187-224.
- Sheth NP, **Melvin JS**, Nelson CL, Heppenstall RB. *The Hip*. In Wiesel B, Sankar WN, Delahay J, Wiesel SW (Ed), *Orthopaedic Surgery: Principles of Diagnosis and Treatment*, Philadelphia, PA: Lippencott, Williams & Wilkens. 2011. pp. 653-696.
- **Melvin JS**, Karunakar MA. *Patella Fractures and Extensor Mechanism Injuries*. In Bucholz RW, Heckman JD, Court-Brown CM and Tornetta P (Ed), *Rockwood and Green's Fractures in Adults (Eight Edition)*, Philadelphia, PA: Lippencott, Williams & Wilkens. 2015; 2269-2302
- **Melvin JS**. *Tibial Shaft Fractures*. In Boughanem J and Shah RR, *Pocket Orthopaedic Surgery*, Lippencott, Williams & Wilkens. 2015; 1-43 to 1-45.
- **Melvin JS**. *Proximal Femur Fracture. Orthopaedics Pocket guide*. In Boughanem J and Shah RR, *Pocket Orthopaedic Surgery*, Lippencott, Williams & Wilkens. 2015; Section 1-34 to 1-37.

**Industry Relationships**

2012-present    Consultant - OrthoMedFlex