

CURRICULUM VITAE

Michael P. Ast, M.D.

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FELLOWSHIP – Adult Reconstruction and Joint Replacement New York, NY
Hospital for Special Surgery
Aug 2012- July 2013

RESIDENCY - Orthopaedic Surgery New Hyde Park, NY
North Shore- Long Island Jewish Health System
July 2008- June 2012
Administrative Chief Resident 2011-2012

INTERNSHIP- General Surgery New Hyde Park, NY
North Shore- Long Island Jewish Health System
July 2007- June 2008

EDUCATION
Temple University School of Medicine Philadelphia, PA
M.D., June 2007

Temple University Philadelphia, PA
B.A., Biology, May 2003- Magna Cum Laude
Temple University Med-Scholars Program (Accelerated BA-MD Program)

MEDICAL LICENSES
New Jersey (2013, Active)
Pennsylvania (2013, Active)

APPOINTMENTS
Mercer Bucks Orthopaedics Lawrenceville, NJ
Orthopaedic Surgeon August 2013- Present
Director, Outpatient Joint Replacement Program
Co-director, Hip Preservation Program

Mercer County Surgery Center Lawrenceville, NJ
Orthopaedic Surgeon August 2013- Present
Director, Outpatient Joint Replacement

Robert Wood Johnson University Hospital Hamilton, NJ

Associate Attending Orthopaedic Surgeon Medical Director, Robotic Joint Replacement Program	August 2013- Present May 2015- Present
Capital Health Medical Center Orthopaedic Surgeon	Hopewell, NJ August 2013- Present
St. Mary Medical Center Associate Orthopaedic Surgeon	Langhorne, PA August 2013- Present
University Medical Center of Princeton at Plainsboro Orthopaedic Surgeon	Princeton, NJ April 2015- Present
Weill Cornell Medical College Senior Clinical Associate, Orthopaedic Surgery	New York, NY Aug 2012- July 2013

PEER REVIEWED PUBLICATIONS

1. Ast MP, Lyman S, Gorab AH, Parkes NV, Westrich GH. Quality of life improvement and clinical outcomes after total hip arthroplasty are not dependent on femoral head composition. *HSS J*; 11(2): July 2015.
2. Ast MP, Abdel MP, Ruel AV, Lee Y, Lyman S, Westrich GH. Weight change after total hip or knee arthroplasty: prevalence, predictors, and effects on outcomes. *J Bone Joint Surg Am*; 97(11): June 2015.
3. Elpers M, Nam D, Boydston S, Ast M, Wright T, Padgett D. Zirconia phase transformation, metal transfer, and surface roughness in retrieved ceramic composite femoral heads in total hip arthroplasty. *J Arthroplasty*; 29(11): August 2014.
4. Banka TR, Ast MP, Parks ML. Early intraprosthetic dislocation in a revision dual-mobility hip prosthesis. *Orthopedics*; 37(4): February 2014.
5. Ast MP, John TK, Labbisierre A, Robador N, Gonzalez Della Valle AM. Fracture of a single design of highly crosslinked acetabular liners: an analysis of voluntary reports to the United States Food and Drug Administration. *J Arthroplasty*: June 2014.
6. Abdel MP, Ast MP, Lee Y, Lyman S, Gonzalez Della Valle AM. All-cause in-hospital complications, acute renal failure and urinary tract infections increased in 4718 obese patients undergoing total knee arthroplasty. *J Arthroplasty*: February 2014.
7. Ast MP, Banka TR, Gorab AH, Lee L, Lyman S, Westrich GH. Clinical outcomes of patients with non-fatal VTE after total knee arthroplasty. *J Arthroplasty*, May 2013.
8. Ast MP, Mayman DJ, Su EP, Della Valle A, Parks MP, Haas SB. The reduction of implant related errors and waste in total knee arthroplasty using a novel, computer based, e.Label and compatibility program. *J Arthroplasty*, March 2013.
9. Tejero-Garcia S, Lirola Criado JF, Ast MP, Fernandez de Bobadilla GD. Popliteal pseudoaneurysm after unicompartmental knee replacement: A case report. *The Knee*. April 2013.

10. Thakur RR, Ast MP, McGraw M, Bostrom MP, Rodriguez JA, Parks ML. Severe persistent synovitis after cobalt chromium total knee arthroplasty requiring revision surgery. *Orthopedics*. 2013 Apr 1;36(4):e520-e524.
11. Ast MP, Nam D, Haas SB. Patient-specific instrumentation for total knee arthroplasty: A Review. *Orthop Clin N Am*. 43 (2012) e17-22.
12. Ast MP, DiMaio FR. Effects of a less-invasive surgical technique on cement mantle quality in total knee arthroplasty. *Orthopedics*. 2012 September; 35(9): e1329-1333.
13. Goldstein MJ, Ast MP, DiMaio FR. Acute, post-traumatic catastrophic failure of a second-generation highly cross-linked UHMWPE patellar component. *Orthopedics*. 2012 July; 35(7): e1119-1121.
14. Ast MP, Cabrera BJ, Dimaio FR, Lementowski P. Cold saline lavage for the removal of incarcerated porous ingrowth stems. *Orthopedics*. 2011 Dec 6; 34(12):e936-8.
15. McCarthy J, Davidson R, Ast M, Cavorsi G, Swick J. Sagittal plane deformity during femoral lengthening. *Orthopedics* 2011; 34: 602.
16. Gott M, Ast M, Lane LB, Schwartz JA, Catanzano A, Razzano P, Grande DA. Tendon phenotype should dictate tissue engineering modality in tendon repair: A review. *Discov Med* 12(62):75-84, 2011.
17. Ilyas AM, Ast M, Schaffer A, Thoder J. De Quervain's Tenosynovitis of the Wrist. *J Am Acad Orthop Surg*: December 2007; Vol 15, Num 12: 757- 764.

BOOK CHAPTERS

1. Ast MP. High Yield Facts in the Hand. First Aid for the Surgery Clerkship- Third Edition. McGraw Hill, 2016.
2. Ast MP. High Yield Facts in Orthopaedics. First Aid for the Surgery Clerkship- Third Edition. McGraw Hill, 2016
3. Ast MP, Bezwada HP. How to Identify and Correct Technical Errors. The Direct Anterior Approach to Hip Reconstruction. SLACK Inc, 2016.
4. Ast MP, Ranawat AS. Surgical Approaches for THR in Hip Replacement- Editor Lawrence D. Dorr. Future Medicine Ltd, 2013.
5. Ast MP, Ranawat AS. Surgical Approaches for the Hip- Evidence vs. Advertising in World Clinics in Orthopaedics. JP Medical Publishers, 2013.
6. Goldstein MJ, Ast MP, Silber JS, Anderson DG, Albert TJ. Chapter 82- Cervical Kyphosis. The Cervical Spine: 5th Edition. Lippincott, Williams and Wilkins, 2010.
7. Ast MP. High Yield Facts in the Hand. First Aid for the Surgery Clerkship- Second Edition. McGraw Hill, 2009.

PRESENTATIONS

1. **Ast MP**, Mayman DJ, Della Valle AM, Bostrom MP, Haas SB. *Near Miss Medical Errors in Total Joint Arthroplasty*. HSS 2014 Holiday Knee Course: New York, NY, December 2014.
2. **Ast MP**, Abdel MP, Ruel AV, Lee Y, Lyman S, Westrich GH. *Weight Change after Total Hip and Total Knee Replacement: Incidence, Predictors, and Affects on Clinical Outcomes*. AAOS 2014: New Orleans, LA.
3. **Ast MP**, John TK, Gonzalez Della Valle AM. *Fracture of Highly Crosslinked Acetabular Liners: An analysis of cases reported to the United States Food and Drug Administration*. AAOS 2014: New Orleans, LA.
4. **Ast MP**, Mayman D, Su E, Gonzalez Della Valle A, Bostrom M, Parks M, Haas S. *The reduction of implant related errors and waste in total knee arthroplasty using a novel, computer based, e.Label and compatibility system*. Eastern Orthopaedic Association; Miami, FL, October 2013.
5. Banka TR, Ast MP, Fields K, Lyman S, **Westrich GH**. *Pre-operative predictors of postoperative pain after total knee replacement*. Eastern Orthopaedic Association; Miami, FL, October 2013.
6. **Lyman S**, Ast MP, Abdel MP, Gorab AH, Ruel A, Westrich GH. *Weight loss following hip and knee arthroplasty*. International Society of Orthopaedic Registries; Stratford-Upon-Avon, England, March 2013.
7. **Ast MP**, Mayman D, Su E, Gonzalez Della Valle A, Bostrom M, Parks M, Haas S. *The reduction of implant related errors and waste in total knee arthroplasty using a novel, computer based, e.Label and compatibility system*. HSS Holiday Total Knee Meeting; New York, December 2012.
8. **Ast MP**, Lementowski P. *The use of matte finish stems to prevent stem displacement in cemented hemiarthroplasty*. NS-LIJ Dept of Orthopaedic Surgery Alumni Research Day; New York, June 2012.
9. **Ast MP**, Roofeh J. *Cost Effectiveness and Clinical Outcomes of Patient Specific Instrumentation for Total Knee Replacement*. NS-LIJ Dept of Orthopaedic Surgery Alumni Research Day; New York, June 2011.
10. Chen E, **Ast MP**, Goldstein MJ, Shah NV, Shahine N, Razzano P, Grande DA. *Stem Cell Based Augmentation of Meniscus Repair*. International Cartilage Repair Society; Barcelona, Spain, September 2010.
11. **Ast MP**, Razzano P, Grande DA. *Osteochondral Defect Repair Using a Bilayer Scaffold Implant Containing BMP-7 and IGF-1*. International Cartilage Repair Society; Barcelona, Spain, September 2010.
12. **Chen E**, Ast MP, Razzano P, Dines JS, Dines DM, Grande DA. *A New Model for Ligamentization of Tendon Autografts in Rats*. NS-LIJ Dept of Orthopaedic Surgery Alumni Research Day; New York, May 2010.
13. Chen E, **Ast MP**, Goldstein MJ, Shah NV, Shahine N, Razzano P, Grande DA. *Stem Cell Based Augmentation of Meniscus Repair*. NS-LIJ Dept of Orthopaedic Surgery Alumni Research Day; New York, May 2010.
14. **Ast MP**, Mack D, DiMaio FR. *Does MIS Technique Compromise Cement Mantle Quality at the Time of Total Knee Arthroplasty?* HSS Holiday Total Knee Meeting; New York, December 2009.

15. Ast MP, Mack D, **DiMaio FR**. *MIS Technique May Compromise Cement Mantle Quality at the Time of Total Knee Arthroplasty*. Eastern Orthopaedic Association Annual Meeting; Bahamas, 2009.
16. **Ast MP**, Kessler MW, Grande D, Asnis SE, Grande DA. *A Biomechanical Study of Multiple Closely Placed Small Drill Holes on the Strength of Cortical Bone*. NS- LIJ Dept of Orthopaedic Surgery Alumni Research Day; New York, May 2009.
17. Ast M, **McCarthy J**. *Contralateral Hamstring Release in Hemiplegic Cerebral Palsy*. Pediatric Orthopaedic Society of North America Annual Meeting; New York, 2004.
18. **Ast M**, Bundy G, McCarthy J, Davidson R. *Sagittal Plane Deformity in Femoral Lengthening*. Temple University School of Medicine Medical Student Research Day; Philadelphia, April 2005.

COMMITTEE MEMBERSHIPS

Eastern Orthopaedic Association- Telecommunications Committee, Membership Committee

PEER REVIEWED JOURNALS

Elite Reviewer- Journal of Arthroplasty
Reviewer- Orthopedics

AWARDS

ACADEMIC AWARDS

- 2012 Stanley Asnis Award for Clinical Excellence
- 2012 NS-LIJ Alumni Day Research Award
- 2010 Synthes NS-LIJ Trauma Teaching Resident of the Year
- 2009 NS-LIJ Dept of Orthopaedic Surgery Resident of the Year
- 2008 NS-LIJ Dept of General Surgery Intern of the Year
- 2003 Temple University Student- Athlete of the Year
- 2001, 2002, 2003 NCAA Academic All- American
- Phi Beta Kappa

ATHLETIC AWARDS

- 2003 Captain of the Conference Champion Temple University Men's Gymnastics Team
- Member of 2002, 2003 ECAC Conference Championship Team
- 2001, 2002, 2003 Varsity Letter Award for Men's Gymnastics

ADDITIONAL CERTIFICATIONS

- MAKO Robotic Surgery
- Biomet Oxford Partial Knee Replacement