



## John L. Masonis, MD

### Bio

- **Director of Adult Hip & Knee Reconstruction** - Atrium Health - Carolinas Medical Center Residency Program

### Education

- **Lehigh University** -- *Bachelor of Science*
- **Thomas Jefferson University** -- *Master of Science*
- **Jefferson Medical College** -- *Doctor of Medicine*
- **Atrium Health - Carolinas Medical Center** -- *Internship*
- **Atrium Health - Carolinas Medical Center** -- *Residency, Orthopedic Surgery*
- **London Health Sciences Center, London, Ontario, Canada** -- *Fellowship, Adult Hip & Knee Reconstruction/ Joint Replacement*
- **Oxford Society: Unicompartamental Knee Arthroplasty** - *Oxford, England*

**P: 704.323.2564**

#### Patient Rating:

4.9 out of 5 Stars

### LOCATIONS

- Hip & Knee Center
- South Park

### CLINICAL SPECIALTIES

- Hip
- Knee

### Practice

- Anterior hip replacement, hip preservation surgery, revision hip replacement, knee replacement, revision knee replacement.

- American Board of Orthopaedic Surgeons- Fellow
- American Association of Orthopaedic Surgeons
- American Association of Hip & Knee Surgeons
- American Orthopaedic Association
- European Hip Society

### Awards

- **Named a 2023 Top Doctor by Charlotte Magazine**
- **2022 [North Carolina's Top Doctors](#)**, Charlotte Region, SouthPark Magazine
- **Named a 2021 Top Doctor by Charlotte Magazine**

#### Atrium Health - Carolinas Medical Center:

- Resident Teaching Award – 2001, 2003
- Clinical Orthopaedic Society – Residents paper award, Seattle 2001

#### Jefferson Medical College:

- Summa Cum Laude
- Alpha Omega Alpha Honor Society – Vice President
- W.B. Saunders Outstanding Senior Medical Student Award 1996
- William F. Kellow Award for Clinical Excellence 1996
- Hobart Hare Honor Medical Society – chairman
- Outstanding Clinical Surgery Award 1996

#### Lehigh University:

- Varsity Football 1985-89, Team Captain 1989,
- James J. Malbacher “All Football” Award 1989
- Outstanding Defensive Player 1989
- McConologue Student Athlete Award / Scholarship 1989

## **Research**

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#### Podium Presentations:

- DA Approach- I Need a Table! 59<sup>th</sup> Annual Edward T. Smith Orthopedic Lectureship. Houston, Texas November 5, 2015
- Pre-Operative Assessment: What Can the Xray Tell You? ICJR 4<sup>th</sup> Annual Anterior Hip Course. Houston, Texas September 25, 2015
- Direct Anterior- Full Frontal is Best. Smith and Nephew: NAHKS Program. Scottsdale, Arizona April 29, 2015
- Hip Dysplasia- An Algorithm for Treatment in the Adult. Smith and Nephew: NAHKS Program. Scottsdale, Arizona April 29, 2015
- Adult Reconstruction Hip. American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas, Nevada March 27, 2015
- Converting a Failed ORIF to DA. Smith and Nephew: Contemporary Solutions in Joint Surgery-Direct Anterior Masters Course. Pasadena, California October 18, 2014
- Pre-operative Issues: Patient Selection. ICJR 3<sup>rd</sup> Annual Anterior Hip Course. Houston, Texas September 19 2014
- Developmental Hip Dysplasia/Adult Treatment: PAO, Femoral Osteotomy, THA. Adult Treatment. Reconstruction Resident

Conference. Charlotte, North Carolina June 5, 2014

- Implant Placement with Direct Anterior. Smith and Nephew: Contemporary Solutions in Joint Surgery- Direct Anterior Total Hip Arthroplasty. Tampa, Florida May 8, 2014
- Periprosthetic Femoral Fractures After TKA. 2<sup>nd</sup> Annual ICJR Revision Course. Philadelphia, Pennsylvania May 3, 2014
- Management of Trochanteric Fractures or Abductor Avulsion Injuries. 2<sup>nd</sup> Annual ICJR Revision Course. Philadelphia, Pennsylvania May 2, 2014
- UKA/PFA. Adult Reconstruction Resident Conference. Charlotte, North Carolina April 3, 2014
- Safe Adaptation of Anterior THA with and without a Specialized Table: Preparing Yourself and Your Team For A Safe Patient. American Academy of Orthopaedic Surgeons Annual Meeting. New Orleans, Louisiana March 13, 2014
- Pre-Operative Planning Principles of Primary TKA: Radiographs, Limb Axis, Implant Selection, Vasculas/ Tourniquet/etc. Adult Reconstruction Resident Conference. Charlotte, North Carolina March 6, 2014
- Implant Placement with Direct Anterior. CSJS Journey II Knee and DA THA. Las Vegas, Nevada February 21. 2014
- Where Do You Land and How Did You Get There: Balancing TKA's. CSJS Journey II Knee and DA THA. Las Vegas, Nevada February 20. 2014
- Femoral Acetabular Impingements: Diagnosis and Treatment Options. Adult Reconstruction Resident Conference. Charlotte, North Carolina December 5, 2013
- To Repair or Replace: The Importance of the Physical Examination. Smith and Nephew: Global Insights: The Future of Hip and Knee Surgery. Copenhagen, Denmark November 22, 2013
- Hip Anatomy and Biometrics: A Guide to the Direct Anterior Approach. Smith and Nephew: Global Insights: The Future of Hip and Knee Surgery. Copenhagen, Denmark November 21, 2013
- Implant Placement with Direct Anterior. Smith and Nephew: Contemporary Solutions in Joint Surgery. Direct Anterior Total Hip Arthroplasty Program. Nashville, Tennessee October 17, 2013
- Surgical Exposure. Smith and Nephew: Contemporary Solutions in Joint Surgery. Direct Anterior Total Hip Arthroplasty Program Nashville, Tennessee October 17, 2013

- Pre-operative Issues: Patient Selection. ICJR 2<sup>nd</sup> Annual Anterior Hip Course. Houston, Texas September 27, 2013
- The Anterior Hip Approach- Past, Present and Planning for the Future: How to Convert From the Back to the Front. ICJR 2<sup>nd</sup> Annual Anterior Hip Course. Houston, Texas September 27, 2013
- Pain Management Best Practices. Smith and Nephew: Journey II BCS Program. Chicago, Illinois August 16, 2013
- Journey II BCS: Evolution Continues. Smith and Nephew: Journey II BCS Program. Chicago, Illinois August 16, 2013
- Implant Placement with Direct Anterior. Smith and Nephew: DA THA Course. Chicago, Illinois August 15, 2013
- Implant Placement with Direct Anterior. Smith and Nephew: Contemporary Solutions in Joint Surgery. Direct Anterior Total Hip Arthroplasty Program. Memphis, Tennessee June 20, 2013.
- Surgical Exposure. Smith and Nephew: Contemporary Solutions in Joint Surgery. Direct Anterior Total Hip Arthroplasty Program. Memphis, Tennessee June 20, 2013.
- Mastering Arthritis Without Hip Replacement: Mini-Open. ICJR South/RLO Course. Charleston, South Carolina May 11, 2013
- Mastering Knee Replacement- Tools: Unicompartmental Knees. ICJR South/RLO Course. Charleston, South Carolina May 10, 2013
- Short Stems: The Wave of the Future. ICJR 5<sup>th</sup> Annual Winter Hip and Knee Course. Vail, Colorado January 19, 2013.
- Direct Anterior Approach using Anthology. Smith and Nephew: Trauma, Reconstruction, Endoscopy, and Wound Meeting. Durham, North Carolina December 6, 2012
- Technique Demonstration: THA- Using the Direct Anterior Approach. Smith and Nephew: Trauma, Reconstruction, Endoscopy, and Wound Meeting. Durham, North Carolina December 6, 2012
- Success of Modern Cementless Femoral Components in Young Patients: A Systemic Review and Metaanalysis of Total Hip Arthroplasty and Hip Resurfacing. Do the Results Justify Hip Resurfacing? AAHKS 18<sup>th</sup> Annual Meeting, November 7-9, 2008
- Current Trends in Direct Anterior Approach, Steamboat Springs, Colorado February 6, 2008
- Locked Plating of Supracondylar Periprosthetic Femur Fractures. AAHKS Annual Meeting, Dallas, Texas 2007
- Why Do Revision Total Hip Arthroplasties Fail? AAHKS Annual Meeting, Dallas, Texas 2007

- Birmingham Hip Resurfacing Instructional Course, Charlotte, North Carolina December 15, 2006
- Surgical Treatment of Flexion Contractures Following TKA. AAHKS Annual Meeting, Dallas, Texas November 2006 long term Outcomes of Opening Wedge High Tibial Osteotomy: Autograft versus Allograft. Specialty Day Hip & Knee Society, AAOS. Chicago, Illinois 2006.
- MRI vs MRI Arthrogram for Detection of Land Chondral Lesions of the Hip. American Society of Sports Medicine Meeting. Hershey, Pennsylvania June 29-July 2, 2006
- Post-Operative Pain Following Total Knee Arthroplasty: Effects of Intravenous Patient Controlled Analgesia, Intra-Capsular Knee Injection, and Femoral Nerve Block. AAHKS. Dallas, Texas November 2005
- Post-Operative Pain Following Total Knee Arthroplasty: Effects of Intravenous Patient Controlled Analgesia, Intra-Capsular Knee Injection, and Femoral Nerve Block. "Knees in the Keys." Key West, Florida March 2005
- Bearing Surface Options in Total Hip Arthroplasty. Southeast Hip & Knee Symposium. Pinehurst, North Carolina October 2004
- Post-Operative Pain Following Total Knee Arthroplasty: Effects of Intravenous Patient Controlled Analgesia, Intra-Capsular Knee Injection, and Femoral Nerve Block. NCOA Asheville, North Carolina, October 2004
- The Effect of Femoral Offset on Hip Stability and Biomechanics. Exeter Arthroplasty Course Exeter, England September 2004
- Ceramic Articulations in Total Hip Arthroplasty. North American Hip & Knee Symposium Beaver Creek, Colorado January 22-24, 2004
- Randomized Prospective Study of Intracapsular Injection Versus Femoral Nerve Block for Pain Control Following Total Knee Arthroplasty. North Carolina Orthopaedic Association, Asheville, North Carolina 2004
- Fixation of Mid and Distal Third Femoral Fractures in the Presence of a Total Hip Arthroplasty component. Biomechanical Assessment, Podium and Poster Presentation: Orthopaedic Trauma Association, Salt Lake City, Utah October 2003
- Locked Plating Devices for Periprosthetic Femur Fractures. Charlotte Update on Trauma Conference, Charlotte, North Carolina May 2003
- Treatment of Periprosthetic Femur Fractures. Knees in the Keys Meeting, Key Largo, Florida November 2002

- Extensile Exposures in Revision Total Knee Arthroplasty. British Orthopaedic Association Meeting, Cardiff September 2002
- Modular Augments in Revision Total Knee Arthroplasty. British Orthopaedic Association Meeting, Cardiff September 2002
- Zirconia Femoral Head Fractures: Clinical and Retrieval Analysis. Controversies in Total Hip Replacement Meeting. Pinehurst, North Carolina September 2002
- Surgical Approach and Total Hip Arthroplasty Dislocation: A Critical Review of the Literature. Hip Society Meeting, AAOS. Dallas, Texas February 2002
- Subtrochanteric Shortening / Derotational Osteotomy in Primary Total Hip Arthroplasty for Patients with Severe Hip Dysplasia- five-year follow-up. Current Concepts in Joint Replacement, Las Vegas, Nevada 2002
- Femoral Offset / Displacement and Total Hip Arthroplasty Dislocation. Clinical Orthopaedic Society. Seattle, Washington October 2001
- Analysis of Tibial Component Aseptic Loosening in Total Knee Arthroplasty. Annual Meeting of American Academy of Orthopaedic Surgeons, 1995
- Failure of All Polyethylene Single Peg Patellar Component at Peg/Dome Interface in Total Knee Arthroplasty. Presented at Annual Meeting of American Academy of Orthopaedic Surgeons, 1994
- Radiologic Cost Reduction Strategy in Total Joint Arthroplasty: Prospective analysis. Annual Meeting of American Academy of Orthopaedic Surgeons, 1994

#### **Poster Presentations:**

- 10 Year Outcomes of UKA Versus TKA in Patients with Similar Pre-Operative Function and Arthritis. Poster Presentation American Association of Hip and Knee Surgeons. Dallas, Texas November 2015
- Effect of Surgical Approach Imaging on Acetabular Alignment in Hip Arthroplasty. Poster Presentation American Academy of Orthopaedic Surgeons. New Orleans, [Louisiana](#) March 2014
- Simultaneous Bilateral Total Hip Arthroplasty via the Direct Anterior Approach: A Safe Procedure. February 2013
- Early Survivorship of Fixed vs Mobile Bearing Unicompartamental Knee Arthroplasty. Poster Presentation American Academy of Orthopaedic Surgeons. San Francisco, California February 2012

- Cementless Femoral Components in Young Patients: A Meta-analysis. Is Hip Resurfacing Justified? Poster Presentation American Academy of Orthopaedic Surgeons. Las Vegas, Nevada February 2009
- Incidence of Noise in Two Modern Alumina-Alumina Total Hip Designs. AAHKS 18<sup>th</sup> Annual Meeting. November 2008
- Early Failure in Unicondylar arthroplasty-are we doing enough to do them well? Poster Presentation American Academy of Orthopaedic Surgeons, San Francisco, California March 2008
- Mid-term outcomes of oxidized zirconium femoral components for total knee arthroplasty. Poster Presentation American Academy of Orthopaedic Surgeons, San Francisco, California March 2008
- Why do revision total hip arthroplasties fail? Poster Presentation American Academy of Orthopaedic Surgeons, San Francisco, California March 2008
- Outcomes of Intra-Operative Procedure Selection: Unicompartmental Versus Total Knee Arthroplasty. Poster Presentation American Academy of Orthopaedic Surgeons, San Diego, February 2007
- Short-term outcomes of Opening Wedge High Tibial Osteotomy: Autograft versus Allograft. AAOS. Chicago, Illinois 2006
- Short-term outcomes of Opening Wedge High Tibial Osteotomy: Autograft versus Allograft. AAHKS. Dallas, Texas November 2005
- CT evaluation of acetabular component fixation in total hip arthroplasty
- Poster Presentation American Academy of Orthopaedic Surgeons, San Francisco, California March 2004
- Five to ten year results of augments used to treat type 2 bone defects in revision knee arthroplasty. Poster presentation American Academy of Orthopaedic Surgeons, New Orleans, [Louisiana](#) March 2003
- Results of extensile exposures in revision total knee arthroplasty. Poster presentation American Academy of Orthopaedic Surgeons, New Orleans, [Louisiana](#) March 2003
- Zirconia femoral head fractures: Clinical and retrieval analysis. Poster presentation American Academy of Orthopaedic Surgeons, New Orleans, [Louisiana](#) March 2003
- Femoral offset / displacement and total hip arthroplasty dislocation. American Academy of Orthopaedic Surgeons. Dallas, Texas March 2002
- Suture anchor technique for abdominal wall reconstruction following tumor resection. poster presentation, American College of Surgeons. New Orleans, [Louisiana](#) 1998



## Publications:

- Lanting BA, Odum SM, Cope RP, Patterson AH, **Masonis JL**. (2015, March). [\*Incidence of perioperative events in single setting bilateral direct anterior approach total hip arthroplasty.\*](#) Journal of Arthroplasty. 2015 Mar;30(3):465-7. doi:10.1016/j.arth.2014.09.021.
- Su EP, Housman LR, **Masonis JL**, Noble JW, Engh CA. (2014 March). *Five Year Results of the First FDA Approved Hip Resurfacing Device.* Journal of Arthroplasty. 2014 Mar 28. pii: S0883-5403(14)00193-4. doi: 10.1016/j.arth.2014.03.021.
- Fehring TK, Fehring K, Springer BD, Masonis JL, Denny AC. (2012 Nov). *Comparative Analysis of Periarticular Osteolysis in Modern Total Hip Bearings a Minimum 5-Year Study.* Orthop Clin North Am. 43(50):e14-6.
- Kuremsky MA, Schaller TM, Hall CC, Roehr BA, Masonis JL. (2010 Sep). *Comparison of Autograft vs. Allograft in Opening-Wedge High Tibial Osteotomy.* Journal of Arthroplasty, 25(6): 951-957.
- Fehring TK, Odum SM, Masonis JL, Springer BD. (2010 Jan). *Early Failures in Unicondylar Arthroplasty.* Orthopedics. 33(1): 11.
- Springer BD, Connelly SE, Odum SM, Fehring TK, Griffin WL, Mason JB, Masonis JL. (2009 Sep). *Cementless Femoral Components in Young Patient: Review and Meta-analysis of Total Hip Arthroplasty and Hip Resurfacing.* Journal of Arthroplasty. 24(6 Suppl): 2-8.
- Anterior Total Hip Arthroplasty Collaborative Investigators, Bhandari M, Matta JM, Dodgin D, Clark C, Kregor P, Bradley G, Little L. Masonis J. (2009 Jul). *Outcomes Following the Single-Incision Anterior Approach to Total Hip Arthroplasty: A Multicenter Observational Study.* Orthop Clin North Am., 40(3), 329-42.
- Bhandari M, Sprague S, Schemitsch EH, Masonis J; International Hip Fracture Research Collaborative. (2009 Jul). *Resolving controversies in Hip Fracture Care: The Need for Large Collaborative Trials in Hip Fractures.* Journal Orthopedic Trauma. 23(6): 479-484
- Springer BD, Fehring TK, Griffin WL, Odum SM, Masonis JL. (2009 Jan). *Why revision total hip arthroplasty fails.* Clin Orthop Relat Res. 467(1), 166-73. Epub Oct 31. 2008.
- Masonis J, Thompson C, Odum S. (2008 Dec). *Safe and Accurate: Learning the Direct Anterior Total Hip Arthroplasty.* Orthopedics. 31(12 Suppl 2),129-134.
- Large TM, Kellam JF, Bosse MJ, Sims SH, Althausen P, Masonis JL. (2008 Sep). *Locked Plating of Supracondylar Periprosthetic Femur*



*Fractures*. Journal of Arthroplasty, 23(6 Suppl 1), 115-120.

- Heiner DE, Mauerhan DR, Masonis JL, Heath J. (2008 Jun). *Patient Out-of-Pocket Expenses in Major Orthopedic Procedures: Total Hip Arthroplasty as a Case Study*. Journal of Arthroplasty. 23(4), 509-514.
- Lundeen GA, Masonis JL, Frick SL. (2008 Mar). *Sequelae of Pediatric Hip Disorders: Survey Responses from Experts in Adult Hip Reconstruction*. American Journal of Ortho, 37(3), 153-156.
- Fehring TK, Odum SM, Griffin WL, McCoy TH, Masonis JL. (2007 Sep). *Surgical Treatment of Flexion Contractures Following Total Knee Arthroplasty*. Journal of Arthroplasty, 22(6 Suppl 2), 62-66.
- Masonis JL, Bourne RB, Ries MD, McCalden RW, Salehi A, Kelman DC. (2004 Oct). *Zirconia Femoral Head Fractures: Clinical and Retrieval Analysis*. Journal of Arthroplasty, 19(7), 898-905.
- Patel JV, Masonis JL, Guerin J, Bourne RB, Rorabeck CH. (2004 Mar). *The Fate of Augments to Treat Type-2 Bone Defects in Revision Knee Arthroplasty*. Journal of Bone and Joint Surgery Br. 86(2): 195-9.
- Fiechtl JF, Masonis JL, Frick SL. (2003 Jul 1). *Spinal Osteochondroma Presenting as Atypical Spinal Curvature: A Case Report*. Spine. 28(13): E252-255.
- Bourne RB, Masonis J, Anthony M. (2003 May). *An Analysis of Rotating Platform Total Knee Replacements*. Clin Orthop Relat Res. (410); 173-180.
- Masonis JL, Patel JV, Miu A, Bourne RB, McCalden R, MacDonald SJ, Rorabeck CH. (2003 Apr). *Subtrochanteric Shortening and Derotational Osteotomy in Primary Total Hip Arthroplasty for Patients with Severe Hip Dysplasia: 5-year Follow-up*. Journal of Arthroplasty, 18(3 Suppl 1): 68-73.
- [Patel JV, Masonis JL, Bourne RB, Rorabeck CH.](#) (2003 Feb). *The Fate of Cementless Jumbo Cups in Revision Hip Arthroplasty*. Journal Arthroplasty. 18(2):129-133.
- [Masonis JL, Bourne RB.](#) (2002 Dec). *Surgical Approach, Abductor Function, and Total Hip Arthroplasty Dislocation*. Clin Orthop Relat Res. (405: 46-53.
- Masonis JL, Frick SL. (2001 Oct). *Bilateral Quadriceps Tendon Ruptures as Presentation of Amyloidosis*. Orthopaedics. 24(10): 995-996.
- Ververeli PA, Masonis JL, Booth RE, Hozack WJ, Rothman RH. (1996 Apr). *Radiologic Cost Reduction Strategy in Total Joint Arthroplasty: Prospective Analysis*. Journal of Arthroplasty. 11(3), 277-280.

- Block T, Barney S, Masonis J, Maggioncalda J, Valyi-Nagy T, Frazer NW. (1994 Sep). *Long-Term Herpes Simplex Virus Type I Infection on Nerve Growth Factor Treated PC12 Cells*. J Gen Virol. 75(Pt 9): 2481-2487.
- Masonis J, Block T, Maggioncalda J, Frazer N (1994). *The role of HSV-1 Lat 5' promoter sequence in latent ganglia infection*. J Gen Virology, 68, 7816-7824,
- Block TM, Deshmane S, Masonis J, Maggioncalda J, Valyi-Nagy T, Fraser NW. (1993 Feb). *An HSV LAT Null Virus Mutant Reactivates Slowly from Latent Infection and Makes Small Plaques on CV-1 Monolayers*. Virology, 192(2), 618-630.
- Sprague S, Matta JM, Bhandari M, Masonis J; Anterior Total Hip Arthroplasty Collaborative (ATHAC) Investigators. (2009 May). *Multicenter Collaboration in Observational Research: Improving Generalizability and Efficiency*. Journal of Bone and Joint Surgery Am. 91 Suppl 3: 80-86
- Ververeli P, Masonis J, Rothman R. (1995). *Failure of all polyethylene single peg patellar component at peg/dome interface in TKA*. Clin. Ortho, 321: 208-215.

### **Book Chapters**

- Fehring T, Krempec J, Masonis J. Book Chapter – Infection in Total Knee Arthroplasty (in press).
- Book Chapter – Polyethylene in Total Hip Arthroplasty (in press).
- Masonis JL, Fehring TK. (2008). Curbside Consultation in Hip Arthroplasty: 49 Clinical Questions Book Chapter – Case: 84-year-old female with previous cemented THA with proximal osteolysis fell and has a periprosthetic femur fracture. SLACK Incorporated, a New Jersey Corporation.

### **Manuscripts Submitted for Publication:**

- Effect of the surgical approach, Patient positioning, and intra-operative imaging on the accuracy of acetabular component alignment in the total in arthroplasty. *The Journal of Arthroplasty*. Submitted February 2013
- Kuremsky M, Morgan R, Mason JB, Masonis JL. MRI vs MRI arthrogram for detection of labral and chondral lesions of the hip. *American Journal of Sports Medicine*. Submitted March 2007