

CURRICULUM VITAE

James Cooper Johnston M.D.

DEMOGRAPHIC AND PERSONAL INFORMATION

Current Position: Orthopaedic Surgeon at MaineGeneral Medical Center specializing in Hip and Knee Replacements.

Work Address

MaineGeneral Musculoskeletal Center
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Home Address

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Family

Spouse: Kristin C Johnston Occupational Therapist M.Ed., OTD
Children: Andrew 3/20/2011, Ryan 5/6/2013

EDUCATION AND TRAINING

8/2011-7/2012: Fellow in Adult Lower Extremity Reconstruction, Mayo Clinic; Rochester, MN
7/2010-6/2011: Chief Resident in Orthopaedic Surgery, Johns Hopkins Hospital; Baltimore, MD
7/2007-6/2010: Resident in Orthopaedic Surgery, Johns Hopkins Hospital; Baltimore, MD
7/2006-6/2007: Intern in General/Orthopaedic Surgery, Johns Hopkins Hospital; Baltimore, MD

Education

8/2002-5/2006: University of Maryland School of Medicine; Baltimore, MD
-Doctor of Medicine
8/2000-8/2001: University of Pennsylvania; Philadelphia, PA
-Post-baccalaureate, Pre-medical Program
8/1994-5/1998: Franklin and Marshall College; Lancaster, PA
-Bachelor of Arts
8/1990-6/1994: Friends School of Baltimore; Baltimore MD
-High School Diploma

Grants/Awards

2015 and 2016: "Star Performer" for Own the Bone Program in US News Best Hospitals Edition
2011: Johns Hopkins Award for Outstanding Research as an Orthopaedic Resident
2011: OREF/MAKO Resident Research Grant \$4000.00 for "Gene Expression Profiling of Adipocytes Treated with Dexamethasone, An Examination of the Role of Adipocytes in Corticosteroid Induced Osteonecrosis"

2003: Arnold Gold Foundation for Humanism in Medicine: Competitive Paid Research Fellowship at the Center for Discovery for Individuals with Developmental Disabilities; Harris, NY

1999: Mimi Baklor Memorial Award for Volunteer of the Year, Kennedy Krieger Institute (Johns Hopkins University) Baltimore, MD

1994, 1995, 1997 Dean's List Fall Semesters Franklin and Marshall College

1993-Eagle Scout: Boy Scouts of America

CLINICAL ACTIVITIES

Medical Licensure

Maine Medical License # MD19257 Valid through January 31, 2018

Minnesota Medical License # 54459, Issued 9/10/11, Expired 1/31/2013

Certifications

Passed USMLE Step 1: June 17, 2004

Passed USMLE Step 2: May 8, 2006

Passed USMLE Step 2 CK: April 28, 2006

Passed USMLE Step 3: April 26, 2011

Board Certification

Board Certified by the American Board of Orthopaedic Surgery: Through 12/31/2026

Other Certifications:

Fracture Liaison Service Provider, National Osteoporosis Foundation: Certified 5/22/15

ACLS/BLS

Oxford Partial Knee Advanced Instructional Course: 5/11/2015

Active Memberships:

American Academy of Orthopaedic Surgeons

American Association of Hip and Knee Surgeons

RESEARCH ACTIVITIES

Research Experience

2012-Current: Fragility fracture prevention project: This project is an IRB approved retrospective study focused on hip fracture patients treated in our community. Using retrospective data on over 300 patients, I started a fracture liaison service based on the AOA "Own the Bone" Program. I ran this program with an RN in addition to my regular practice until we hired a full time NP. Every patient over age 50 with a low energy fracture is offered screening for osteoporosis and nearly 300 patients have entered the program.

2013-2015: Hip fracture Outcomes Project: Working with a multi-disciplinary team including geriatrics and utilizing best practices from the international geriatric fracture society we improved the care of hip fracture patients and have decreased 30 day mortality from 12.7% 2011-2013 to 3.9% in 2015 which is better than the national average of 3.1%.

2008-2011: Hopkins Resident project; "Pathophysiology of Steroid Induced Osteonecrosis"

2001-2002: Wistar Institute; Philadelphia, PA: Research Assistant, Microarray Core Facility

2001-2002: Children's Hospital of Philadelphia: Philadelphia, PA: Clinical Research Assistant

1998-2000: Johns Hopkins University; Baltimore, MD: Microarray Lab Technician

Summer 1997: Kennedy Krieger Institute; Baltimore, MD: Neuroscience Lab Technician

Peer Reviewed Publications

Johnston JC, Haile A, Wang D, Ronnett G, Jones LC. Dexamethasone treatment alters function of adipocytes from a mesenchymal stromal cell line. *Biochem Biophys Res Communications*. 2014 Sep 5;451(4):473-9.

Strike SA, **Johnston JC**, Farjoodi P. Septic elbow in the setting of neuropathic joint as the initial presentation of a cervical syrinx. *Orthopedics*. 2011 April 11;34 (4).

Papp DF, **Johnston JC**, Carrino JA, McCarthy EF, Frassica FJ. Immersion education for orthopaedic pathology: a review of the Orthopaedic In-Training Examination and American Board of Orthopaedic Surgery certification. *JBJS Am*. 2010 Dec;92 Suppl 2:152-60. Review.

Goddard MS, Reid KR, **Johnston JC**, Khanuja HS. Atraumatic bilateral femur fracture in long-term bisphosphonate use. *Orthopedics*. 2009 Aug;32(8).

Makino H, Tajiri T, Miyashita M, Sasajima K, Anbazhagan R, **Johnston JC**, Gabrielson E,: Differential expression of TCEAL1 in esophageal cancers by custom cDNA microarray analysis; *Diseases of the Esophagus*. 2005;18 (1):37-40

Kari L, Loboda A, Nebozhyn M, Rook AH, Vonderheid EC, Nichols C, Virok D, Chang C, Horng WH, **Johnston JC**, Wysocka M, Showe MK, Showe LC : Classification and prediction of survival in patients with the leukemic phase of cutaneous T cell lymphoma; *Journal of Experimental Medicine*, 2003; 197:1477-88.

Anbazhagan R, Bornman DM, **Johnston JC**, Westra WH, Gabrielson E: The S387Y mutations of the transforming growth factor-beta receptor type I gene is uncommon in metastases of breast cancer and other common types of adenocarcinoma; *Cancer Research* 1999; 59: 3363-4. 1999:

Anbazhagan R, Tihan T, Bornman DM, **Johnston JC**, Saltz JH, Weigering A, Piantadosi, Gabrielson E: Classification of small cell lung cancer and pulmonary carcinoid by gene expression profiles; *Cancer Research* 1999; 59: 5119-22.

Presentations/ Abstracts

Johnston JC “Preventing the Next Fragility Fracture..an introduction to a Fracture Liaison Service Model that works well in Maine“. Presented at Maine Orthopedic Society Winter Meeting 2/27/16 Sugarloaf Ski Resort

Johnston JC and Calkins S: “Preventing Fractures in patients over 50”...An introduction to two innovative and complementary Osteoporosis management programs currently in use at MaineGeneral. Presented at MaineGeneral Grand Rounds 1/14/2016, Augusta, Maine.

Stevens KN and **Johnston JC**, “Osteoporotic Hip Fractures in Maine: the Oldest State in the Country: A Retrospective Study of 374 Hip Fractures Treated from 2011-2013, with Two-Year Outcome Data on 98 Patients, Presented at National Osteoporosis Foundation Interdisciplinary Symposium on Osteoporosis 2015 (ISO15) 5/21/15, Poster and Podium Presentation, Washington DC.

Stevens KN and **Johnston JC** "A Descriptive Study of Hip Fractures at MaineGeneral Medical Center, 2011-2013" Presented at Maine Orthopedic Society Winter Meeting 3/9/15 Sugarloaf Ski Resort

Johnston JC, Haile A, Wang D, Jones LC. Dexamethasone Treatment of Adipocytes Derived from a Mesenchymal Stem Cell Line Alters mRNA and Protein Expression of Key Adipokines in a Model of Glucocorticoid-Associated Osteonecrosis and Osteoporosis. Poster Presented at Annual Meeting of Orthopaedic Research Society. Long Beach, CA February 2011.

Johnston JC, Reid K, Osgood G. Femoral Neck Fracture in Young Patient: Is time to reduction or quality of reduction more important in preventing osteonecrosis?: A case report and literature review. Poster Presented at AO North America Challenges in Fracture Care Across Disciplines meeting, Phoenix, AZ, November 2010.

Papp D, **Johnston JC**, Weber K, McCarthy E, Frassica F. Scientific Exhibit No. SE87, Immersion Education for Orthopaedic Pathology: An OITE/ABOS Review. Presented at Annual Meeting AAOS, New Orleans, LA, February 2010.

Talbott JA, Coale R, Fox S, Nizza D, Penziner A, Bonner A, Cook L, Cook T, Faber S, Friedlander A, **Johnston JC**, Lazusky H, Lenhart A, Proctor C, Radano MC, Retener N, Tillipman H: Professionalism: Web-based student peer review: The birth, life and change of a unique system for students. Poster presented at the American Association of Medical Colleges, Boston, MA, November 5-10, 2004.

Talbott JA, Blake M, Bonner A, Cohen M, Cook L, Cook T, Faber S, Friedlander A, **Johnston JC**, Lazusky H, Lenhart A, Proctor C, Radano MC, Retener N, Segal A, Schreiber J, Tillipman H: Professionalism: The power of student action: How a student advisory committee changed the world. Poster presented at the American Association of Medical Colleges, Boston, MA, November 5-10, 2004.

Posner J, Lee J, Hawkins L, **Johnston JC**, Durbin D. Home safety knowledge and practices in an urban community; American Pediatric Society / Society for Pediatric Research Annual Meeting Platform poster presentation. Baltimore, MD. May 6, 2002.

Makino H, Sasajima K, Miyashita M, Hutami R, Onda M, Gabrielson E, Anbazhagan R, **Johnston JC**: cDNA Array Analysis of Differential Gene Expression Between Esophageal Carcinoma and Normal Esophageal Mucosa; American Association of Cancer Research Poster Presentation. March 27, 2001

Departmental Publications

Frassica FJ (Editor), Papp D, Mesfin A, Farjoodi P, **Johnston J** (Assistant Editors) "2009 and 2010 Edition of James F. Wenz M.D. Orthopaedic Surgery Resident survival guide" Available at <http://www.hopkinsortho.org/2009rsg.pdf>

Hobbies and Interests

Osteoporosis and Fragility Fractures, Health Policy, Orioles Baseball, Hiking.