

## Casey Jo Humbyrd, M.D.

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### Professional Appointments

8/2014-Present      **Johns Hopkins University**  
Baltimore, MD  
Assistant Professor of Orthopaedic Surgery  
Chief, Foot and Ankle Division  
Associate Faculty at the Berman Institute of Bioethics  
Board Certified by the American Board of Orthopaedic Surgery

### Education and Training

8/1998-5/2002      **University of Pennsylvania**  
Philadelphia, PA  
Bachelor of Arts in Biology and Urban Studies, May 2002  
Cum Laude, Honors in biology and urban studies

8/2003-5/2008      **Mount Sinai School of Medicine**  
New York, NY  
Doctor of Medicine, May 2008  
Distinction in Research, AOA

7/2008-6/2009      **Johns Hopkins University Hospital and School of Medicine**  
Baltimore, MD  
Intern, Departments of General Surgery and Orthopaedic Surgery

7/2009-6/2013      **Johns Hopkins University Hospital and School of Medicine**  
Baltimore, MD  
Resident and Chief Resident, Department of Orthopaedic Surgery

8/2013-7/2014      **Mercy Medical Center**  
Baltimore, MD  
Fellow, Institute of Foot and Ankle Reconstruction

9/2016-Present      **Johns Hopkins Bloomberg School of Public Health**  
Baltimore, MD  
Masters in Bioethics

### Publications

#### Peer Reviewed Publications

1. Glebov OK, Rodriguez LM, Nakahara K, Jenkins J, Cliatt J, **Humbyrd CJ**, DeNobile J, Soballe P, Simon R, Wright G, Lynch P, Patterson S, Lynch H, Gallinger S, Buchbinder A, Gordon G, Hawk E, Kirsch IR. Distinguishing right from left colon by the pattern of gene expression. Cancer Epidemiology, Biomarkers and Prevention. 2003; 12(8): 755-62.

2. Glebov OK, Rodriguez LM, Lynch P, Patterson S, Lynch H, Nakahara K, Jenkins J, Cliatt J, **Humbyrd CJ**, Denobile J, Soballe P, Gallinger S, Buchbinder A, Gordon G, Hawk E, Kirsch IR. Celecoxib treatment alters the gene expression profile of normal colonic mucosa. *Cancer Epidemiology, Biomarkers and Prevention*. 2006; 15(7): 1382-91.
3. **Humbyrd CJ**, Baril DT, Dolgin SE. Postoperative retrograde intussusception in an infant: a rare occurrence. *Journal of Pediatric Surgery*. 2006; 41: e13-15.
4. **Humbyrd CJ**, Lin J, Baril D, Kim U. Image of the month. *Archives of Surgery*. 2007; 142: 307-308.
5. **Humbyrd CJ**. Fair trade international surrogacy. *Developing World Bioethics*. 2009; 111-118.
6. **Humbyrd CJ**, Schon LC. Arthroereisis for correction of flexible flatfoot in children and adolescents. American Academy of Orthopaedic Surgeons Web site: Orthopaedic Knowledge Online 2011. [http://orthoportal.aaos.org/oko/article.aspx?article=OKO\\_FOO047#abstract](http://orthoportal.aaos.org/oko/article.aspx?article=OKO_FOO047#abstract). Accessed December 8, 2013.
7. **Humbyrd CJ**, Laporte DM. Hand Surgery: Considerations in pregnant patients. *Journal of Hand Surgery*. 2012;37(5):1086-1089.
8. **Humbyrd CJ**, Rhodes R, Capozzi JD. Judgments about deservingness. *J Bone Joint Surg Am*. 2013;95(19):e145 1-3.
9. **Humbyrd CJ**, Myerson MS. Use of a Cannulated Guide in Talocalcaneal Coalition Resection: Technique Tip. *Foot and Ankle International*. 2015; 36:225-228.
10. Spiker AM, **Humbyrd CJ**, Osgood GM, Yang SC, Deune EG. Reconstruction of Ulnar Defect with Vascularized Rib Flap: A Case Report. *Microsurgery*. 2015; e-pub ahead of print.
11. **Humbyrd CJ**, Miller E, Fayad LJ, Skolasky R, Frassica FJ, Weber K. Patient Anxiety, Pain, and Satisfaction with Image-guided Needle Biopsy for the Diagnosis of Bone and Soft-Tissue Tumors: A Prospective Study. *Orthopedics*. 2016; 39(2): e219-24.
12. **Humbyrd CJ**, Sugarman J. Ethical Considerations Related to Impaired Driving Caused by Orthopaedic Injuries. *The Journal of Bone and Joint Surgery*. 2016; 98(14): e60.
13. Miller EK, Tanaka MJ, LaPorte DM, **Humbyrd CJ**. Pregnancy-related ligament laxity mimicking dynamic scapholunate instability. Submitted with revision to the *Journal of Bone and Joint Surgery Case Connector* February 2017.

#### Non-Peer Reviewed Publications

**Humbyrd CJ**, Petre BM, Chanmugam AS, Laporte DM. *Orthopaedic Emergencies*. New York: Oxford University Press, 2012.

## Presentations

#### Podium Presentations- Research

1. Wei L, **Humbyrd CJ**, Schon LC. The effect of the dorsal opening wedge (Cotton) osteotomy as a combined procedure for the treatment of acquired flat foot deformity. Annual Meeting of the American Orthopaedic Foot and Ankle Society. Podium Presentation, June 22, 2012. San Diego, CA.
2. **Humbyrd CJ**, Beach MD. The Perfect Storm: Patient Mistrust and Physician Misuse of Autonomy. Annual International Conference on Clinical Ethics Consultation. Paper Presentation, May 21, 2015. New York, NY.
3. **Humbyrd, CJ**. The Challenges of Total Joint Arthroplasty in Obese Patients. Berman Institute Research Retreat. Research Presentation, December 5, 2016. Baltimore, MD.
4. **Humbyrd, CJ**. Current research into Achilles tendon ruptures in end stage renal disease and post-renal transplant patients. Baltimore Fellows Biennial Foot and Ankle Meeting. February 10, 2017. Beaver Creek, CO.

#### Podium Presentations- Education

1. Cerrato R- Moderator, **Humbyrd CJ-speaker**, Wisbeck J-speaker, Jeng C- speaker. Session IV: Foot and Ankle. Controversies in Syndesmotom Injuries. Maryland Orthopaedic Association Annual Meeting, Podium Presentation, February 6, 2016. Annapolis, MD.
2. **Humbyrd CJ**. PhysioSports National Sports Medicine Conference: Evidenced Based Treatment of Common Sports Injuries, June 4, 2016. Baltimore, MD.

### Posters and Abstracts

1. **Humbyrd CJ**, Kobil JH, Zandman DB, Freed JS. Service learning during spring break: a new paradigm in medical education. Mount Sinai Institute of Medical Education Educational Research Day; October 28, 2004. New York, NY.
2. Wang L, Li CY, **Humbyrd C**, Laudier D, Majeska RJ, Schaffler MB. Angiogenesis is coupled to remodeling in cortical but not in trabecular bone. Transactions of the 50th Annual Meeting of Orthopaedic Research Society. 2005. 30: 383.
3. **Humbyrd CJ**, Fernandez H. International service projects and cultural competency training: immersion as education. Mount Sinai Institute of Medical Education Educational Research Day; October 27, 2005. New York, NY.
4. **Humbyrd CJ**, Joseph TJ, Freed JS. Attitudes towards social issues in medicine and extracurricular involvement: who chooses to participate in an international service-learning experience? Mount Sinai Institute of Medical Education Educational Research Day; October 27, 2005. New York, NY.
5. **Humbyrd C**, Hu HM, Zielinski-Kwiatkowska A, Yang L, Chansky HA. The EWS/FLI-1 fusion protein modulates expression of hypoxia inducible factor 1A (HIF1A). Transactions of the 54th Annual Meeting of the Orthopaedic Research Society. 2008; 33: 85.

### Grand Rounds

1. **Humbyrd CJ**, Jacoby D, Kobil JH, Zandman DB, Freed JS. Service learning during spring break: a new paradigm in medical education. Mount Sinai Institute of Medical Education Grand Rounds; January 26, 2005. New York, NY
2. **Humbyrd CJ**. Vertebra plana. Johns Hopkins Children's Center Pediatric Clinical Case Conference Grand Rounds. February 11, 2011. Baltimore, MD.
3. **Humbyrd CJ**. The Evolution of the Treatment of Club Foot. Johns Hopkins Orthopaedic Surgery Grand Rounds. February 21, 2013. Baltimore, MD.
4. **Humbyrd CJ**. Achilles: Beyond the Heel. Johns Hopkins Orthopaedic Surgery Grand Rounds. June 11, 2015. Baltimore, MD.

### Webinars

1. **Humbyrd CJ**. Foot and Ankle Injuries for the Primary Care Physician. Johns Hopkins Community Physicians CME Activity. March 23, 2016.
2. **Humbyrd CJ**, et al. Online Journal Club for the American Orthopaedic Foot and Ankle Society. April 19, 2016.

### Patient Outreach and Seminars

1. Workshop Leader on Foot and Ankle Issues, The Marfan Foundation 30<sup>th</sup> Annual Family Conference. July 12, 2014. Baltimore, MD
2. Foot and Ankle Education Forum, Johns Hopkins Bayview Medical Center. March 16, 2016. Baltimore, MD.

### Honors and Awards

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|------|--|
| 2001 | Second place, Thomas Jefferson Hospital Cancer Research Poster Competition |
| 2002 | Dean's List, University of Pennsylvania                                    |

2002	Graduated cum laude, University of Pennsylvania
2002	Neysa Cristol Adams Award for Research in Biology, University of Pennsylvania
2007	Alpha Omega Alpha, Mount Sinai School of Medicine
2007	Innovation Award, Student Awards Ceremony, Mount Sinai School of Medicine
2008	Oxford Fellowship for Medical Ethics, Mount Sinai School of Medicine. Sponsorship of a 4-week medical ethics program of study at Oxford University
2009	Patient Safety Star Award, Johns Hopkins Hospital
2010	OREF/ORS First Place Award for Clinical Research, Chesapeake Region Resident Research Symposium
2011	Grant Recipient, Quality Improvement Project, Achieving Competency Today Program, Johns Hopkins Hospital
2013	Chief Resident Research Award for Johns Hopkins Department of Orthopaedic Surgery

## Research Experience

2001	National Cancer Institute, Bethesda MD Genetics Branch Advisor: Ilan Kirsch, MD. Area of interest: Investigation into the gene expression patterns of right versus left colon in patients using microarray hybridization.
2003-2004	Mount Sinai School of Medicine, New York NY Department of Orthopedic Research Advisor: Mitchell Schaffler, PhD. Area of interest: Experimental research study using a mouse model to explore the role of angiogenesis inhibition on bone remodeling.
2003-2007	Mount Sinai School of Medicine, New York NY Department of Medical Education Advisor: Jeffrey Freed, MD. Area of Interest: Survey based research study exploring the potential impact of a week-long service trip on medical student attitudes and the correlation between students' involvement in community service work and attitude scores.
2007-2008	University of Washington Medical Center, Seattle WA Department of Orthopaedic Surgery Advisors: Howard Chansky, MD and Liu Yang, PhD. Area of Interest: Investigation into the role of Hypoxia Inducible Factor 1A (HIF1A) in Ewing's family tumors by utilizing RNA interference and chemical hypoxia studies in both in vitro and in vivo models of Ewing Sarcoma.
2008-2013	Johns Hopkins Hospital, Baltimore MD Department of Orthopaedic Surgery Advisor: Kristin Weber, MD Area of Interest: Prospective research study on patients' anxiety, pain and satisfaction with percutaneous needle biopsy for a presumed bone and soft tissue tumor.
2015-Present	Johns Hopkins University, Baltimore MD Department of Orthopaedic Surgery and the Berman Institute of Medical Ethics Collaborators: Nancy Kass, PhD; Jay Reidler, MD, MPH

Area of Interest: National survey of orthopedic surgeons to identify the most prevalent ethical concerns

- 2016-Present Johns Hopkins University, Baltimore MD  
Department of Orthopaedic Surgery and the Department of Surgery  
Collaborators: Dorry Segev, MD, Lauren Kucirka PhD, Sunjae Bae MD  
Area of Interest: Exploration of outcomes of Achilles tendon ruptures in ESRD and post-renal transplant patients.  
AOFAS Grant Submitted 12/30/2016
- 2016-Present Johns Hopkins University, Baltimore, MD  
Department of Orthopaedic Surgery and the Berman Institute of Medical Ethics  
Collaborators: Nancy Kass, PhD; Mary Catherine Beach, MD, MPH; Kavita Shah Arora, MD, MBE  
Area of Interest: Ethical issues surrounding bundled payments.

## Teaching Experience

- 2012-2013 Education Chief Resident
- 10/16/2014 Intern Surgical Skills Day—Foot and Ankle Education Leader for Intern Skills, Baltimore, MD
- 11/1/2014 Jacqueline Perry Initiative Faculty Member, Baltimore, MD
- 4/29/2015 Neurosurgery Ethics Education Session, Baltimore, MD
- 10/15/2015 Intern Surgical Skills Day—Foot and Ankle Education Leader for Intern Skills, Baltimore, MD
- 6/6/2016 Johns Hopkins Radiology Resident Education, Baltimore, MD
- 10/7/2016 Jacqueline Perry Initiative Faculty Member, Baltimore, MD
- 10/13/2016 Intern Surgical Skills Day—Foot and Ankle Education Leader for Intern Skills, Baltimore, MD
- 2015-Present Bi-Weekly Foot and Ankle Education Resident Conference

## Mentoring Experience

- 2011-2012 Lawrence Wei, Johns Hopkins University post-baccalaureate student  
Responsibilities: Supervision of work as a research assistant on a project evaluating the effect of a Cotton Osteotomy on outcomes for flat foot reconstruction
- 2011-2016 Emily Miller, Johns Hopkins University Medical Student  
Responsibilities: Supervision of work as a research assistant, support for project investigating history of women in orthopedics, advise on application process for residency, completion of a case report on carpal instability in pregnancy
- 2016-Present Abigail Wang, Johns Hopkins University Medical Student  
Responsibilities: Supervision of work as a research assistant in projects focused on disparity research and access to elective surgery in orthopedics

## Activities and Community Service

- 2003-2008 Medical Students Making Impacts
- 2004-2005 President
- 2004 Founder, Alternative Spring Break Program
- 2004 Director of the Belize Service Trip
- 2005 Director of the Dominican Republic Service Trip
- 2005-2008 Board Member
- 2010-2012 Departmental Representative, Housestaff Patient Safety and Quality Committee

2011-2012	Achieving Competency Today, Johns Hopkins Hospital Quality Improvement Initiative
2014-Present	Departmental Representative, Johns Hopkins Bayview Patient Safety and Quality Committee

## Professional Memberships and Societies

2003-2013	Association of American Medical Colleges
	2005-2007: Member of the Organization of Student Representatives
	2011-2013: Orthopaedic Member to the Organization of Resident Representatives
2007-Present	Alpha Omega Alpha Honor Society
2008-Present	American Academy of Orthopaedic Surgeons (AAOS)
2009-Present	Ruth Jackson Orthopaedic Society (RJOS)
2012-Present	American Orthopaedic Association—Emerging Leaders Program
	2011-2013: Member, Academic Leadership Committee
	2016-Present: Editor, Emerging Leader Messenger
2013-Present	American Orthopaedic Foot and Ankle Society (AOFAS)
	2014-Present: Member of the Health Policy Committee
	2016-Present: Vice Chair Health Policy Committee
2014-Present	American Medical Association (AMA)
	2014-Present: AOFAS Delegate to the Young Physicians Session (YPS)
	2015-Present: AOFAS Alternate Delegate to the AMA House of Delegates
	November 2015: Chair of the AMA-YPS Legislative Advocacy Handbook Review
	November 2016: Chair of the Credentialing Committee
2016-Present	MedChi, The Maryland State Medical Society

## Departmental Service

2015	Division Champion for Huron Group Consulting
2015	EPIC Working Group Member
2015-Present	Departmental Representative to the Quality and Patient Safety Committee

## Meetings and Courses

March 2010	AO North America Basic Principles Course, Attendee
May 2011	AO Course in Upper Extremity Trauma, Attendee
April 2012	Association of American Medical Colleges Interim Meeting, American Orthopaedic Association Resident Representative
June 2012	American Orthopaedic Association Annual Meeting, Attendee at the Resident Leadership Forum
Nov 2012	Association of American Medical Colleges Annual Meeting, American Orthopaedic Association Resident Representative
March 2013	American Academy of Orthopaedic Surgeons Annual Meeting, Attendee
April 2013	Association of American Medical Colleges Interim Meeting, American Orthopaedic Association Resident Representative
Sept 2013	Baltimore Club Foot Symposium and Limb Deformity Course, Attendee
April 2014	American Academy of Orthopaedic Surgeons Annual Meeting, Attendee
Sept 2014	American Orthopaedic Foot and Ankle Society Annual Meeting, Attendee
March 2015	American Academy of Orthopaedic Surgeons Annual Meeting, Attendee



May 2015	International Conference on Clinical Ethics Consultation, Paper Presentation
June 2015	American Medical Association Annual Meeting, AOFAS Young Physician Section Delegate
June 2015	American Orthopaedic Association Annual Meeting, Attendee at the Emerging Leaders Forum
November 2015	American Medical Association Interim Meeting, AOFAS Alternate to the House of Delegates and Young Physician Section Delegate
February 6, 2016	Maryland Orthopaedic Association Annual Meeting, Presenter and Attendee
March 2016	American Academy of Orthopaedic Surgeons Annual Meeting, Attendee
June 2016	American Medical Association Interim Meeting, AOFAS Alternate to the House of Delegates and Young Physician Section Delegate
November 2016	American Medical Association Interim Meeting, AOFAS Alternate to the House of Delegates and Young Physician Section Delegate
February 2017	Baltimore Fellows Biennial Foot and Ankle Meeting, Podium Presentation

### **Published/Broadcast Interviews**

Interviewed by Martha Thomas for Her Mind Magazine. Published in the September/October 2015 Issue of Her Mind Magazine. Available at: <http://hermindmagazine.com/wp/hip-hip-hooray/>

Interviewed by Lisa Mulcahey for Redbook Magazine. "What doctors tell their friends about feet." Redbook April 2016, pp 78-80.

Interviewed by Nancy Dunham for Reader's Digest Magazine. "7 Types of Leg Pain (and When to Take Them Seriously)." Reader's Digest. January 2017. Available at: <http://www.rd.com/conditions/leg-pain/>

### **Other Professional Experience**

2000-2002	University of Pennsylvania, Philadelphia PA Sleep and Chronobiology Laboratory Supervisor: David Dinges PhD Position: Research Assistant Responsibilities: Assisting during human sleep deprivation studies, including patient interaction, bout testing and EEG application and removal as well as statistical analysis and SAS program writing for theta curve modeling of sleep inertia.
2002-2003	University of Rhode Island, Kingston RI Department of Fish and Veterinary Science Supervisor: Marta Gomez-Chiarri PhD Position: Research Assistant Responsibilities: Statistical analysis for an epidemiological study of temperature correlation with disease prevalence, PCR investigation of the prevalence of oyster diseases in RI bay area, and experiments exploring anti-microbial peptide resistance in oyster lymph of a challenged population.
2004	Mount Sinai School of Medicine, New York NY Department of Health Policy and Geriatrics Supervisor: Bruce Vladeck PhD Position: Research Assistant

Responsibilities: Composition of literature reviews and research summaries on reverse mortgages, changing demographics, and caregiving patterns.

2013-2016      Oakstone Publishing, Birmingham AL  
Practical Reviews in Orthopaedic Surgery  
Supervisor: Paul Sponseller MD  
Position: Reviewer  
Responsibilities: Review articles in the orthopedic foot and ankle literature and produce written and audio abstracts of the article as part of a CME program.

## References

Available upon Request