

# **Brett Michael Cascio, M.D.**

## **Curriculum Vitae**

**Address:** 2020 Gravier Street, RM 330-J  
New Orleans, LA 70112  
**Phone:** Office: (504) 568-4680  
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**Date of Birth:** 11/19/1975  
**Place of Birth:** New Orleans, LA  
**email:** bcasci@lsuhsc.edu

### **ACADEMIC APPOINTMENTS**

Assistant Professor – Clinical, LSU Health Sciences Center, Department of Orthopaedics  
August 10, 2007 – Present

### **EDUCATION**

**SPORTS MEDICINE:** **STEADMAN-HAWKINS CLINC**, Vail, CO 2006-2007  
**FELLOWSHIP**

**ORTHOPAEDIC SURGERY:** **JOHNS HOPKINS UNIVERSITY**, Baltimore, MD  
**RESIDENCY** Department of Orthopaedic Surgery  
July 2001-present  
Administrative Chief Resident 2005-2006

**MEDICAL SCHOOL:** **LOUISIANA STATE UNIVERSITY SCHOOL of MEDICINE**  
New Orleans, LA  
1997-2001  
Doctor of Medicine, May 2001  
Honors Program  
ΑΩΑ President

**UNDERGRADUATE:** **DUKE UNIVERSITY**, Durham, NC  
B.S. Biology, Double Major in History, Minor in Chemistry; May 1997  
1993-1997  
Alpha Tau Omega Fraternity, Club Baseball and Football

**HIGH SCHOOL:** **JESUIT HIGH SCHOOL**, New Orleans, LA  
1988-1993  
Varsity Baseball, Marine Corps Junior R.O.T.C.

### **MILITARY SERVICE**

2001-present Captain, United States Army Reserves

### **MEDICAL LICENSE**

2006 Colorado

### **ACADEMIC HONORS**

1998-2001 L.S.U. Medical School Honors Thesis:  
Mechanical behavior of transverse, step, and sigmoid osteotomies for allograft fixation  
1999 Elected to Alpha Omega Alpha (ΑΩΑ) Beta of Louisiana Chapter  
2000-2001 President of ΑΩΑ, Beta of Louisiana Chapter

**AWARDS**

- 2000 Jefferson Parish Medical Society Scholarship  
 2001 Louisiana Orthopaedic Association Outstanding Student Award  
 2005 Resident Leader, Zimmer-AOA Resident leadership Forum, Huntington Beach, CA, June 21-23, 2005.  
 2005 Pfizer Scholars in Pain Management Award.

**COURSES**

- 2004 AO Basic Course, Baltimore, MD

**EMPLOYMENT**

- 1993-1995 Physical Therapist Aid, Duke University Medical Center, Durham, NC  
 1995-1996 Surgical Orderly, West Jefferson Medical Center, Marrero, LA  
 1996 Forensic Pathologist's Assistant, Jefferson Parish Coroner's Office, Jefferson Parish, LA  
 2005 Reviewer, Oakstone Medical Publishing, Orthopaedic Surgery Journal Reviews

**SERVICE**

- 1993-1995 Little League Umpire, Mel Ott Park, Gretna Recreation Department., Gretna, LA  
 1996 Counselor, Camp Sunshine Muscular Dystrophy Camp, St. Tammany Parish, LA  
 1997 Volunteer, Lennox –Baker Children's Hospital , Durham, NC  
 1998 Counselor, Camp Tiger, L.S.U. Medical School, New Orleans, LA

**ACADEMIC APPOINTMENTS**

1. Johns Hopkins Medicine DVT Collaborative, Department of Orthopaedics Representative, 2005  
Developing DVT prophylaxis regimen for hospital and resident and nurse education
2. Johns Hopkins Medicine Department of Orthopaedics Safety Representative for Compartment Syndrome, 2002-present. Resident and nurse education.
3. Education Committee, Johns Hopkins Department of Orthopaedics, 2004-2006
4. Research Committee, Johns Hopkins Department of Orthopaedics, 2004-2006

**BIOMEDICAL COMPANY AFFILIATIONS**

1. Cartilix, Baltimore, MD.

**MEDICAL JOURNAL AFFILIATIONS**

1. Medical Science Monitor. Article reviewer.

**RESEARCH**

1. Articular Cartilage Repair: Novel Photopolymerizing Hydrogels With Integrating Adhesive. Elisseff, JH(Primary Investigator); Whitaker Institute of Biomedical Engineering. Johns Hopkins University. Several in vivo studies(goats and rabbits). 2003 to present. Funding provided in part by Maryland TEDCO Univeristy Technology Development Fund, NIH, and The Arthritis Foundation. \$15,000 OREF grant applied for.
2. PMMA particles induce caspase 3, iNOS expression and apoptotic chondrocyte death. O'Neil Research Laboratories, Good Samaritan Hospital, Johns Hopkins Orthopaedics, Division of Arthritis Surgery. Primary Investigators Carmelita Frondoza and David Hungerford.
3. Compartment Syndrome: Improving Documentation, recognition, and time to operative intervention. Frassica FJ (Primary Investigator). Johns Hopkins University, Department of Orthopaedic Surgery. 2001 to present.

4. Mechanical comparison of step, transverse, and sigmoid osteotomies for allograft fixation in long bones. Wilson SC (Primary investigator) Louisiana State University Health Sciences Center. National Cancer Institutes Grant. \$1500. 1998-2001.
5. The influence of the menstrual cycle on ACL laxity in the female athlete. Feagin J (Primary investigator). Duke University Department of Orthopaedic Surgery. 1996-1997.

### **JOURNAL PUBLICATIONS**

1. Yen Y, Cascio B, Millet P, Steadman JR. Microfracture Rehabilitation. *Medicine and Science in Sports and Exercise*. Accepted.
2. Farber A, Fayad L, Johnson T, Cascio BM, Shindle M, Neubauer P, Khanna J. MRI of the shoulder. *J Bone Joint Surg* 2006;88-A(Suppl 4):64-79.
3. Kramer D, Bahk M, Cascio BM, Cosgarea A. Posterior knee arthroscopy: anatomy, technique, application. *J Bone Joint Surg* 2006;88-A(Suppl 4):110-121.
4. Cascio BM, Chang T, Pateder DB, Ain MC. Tip of the Trade: A Method of Splinting for Surgeons. *J of Sug Orthop Adv* 2006;15(2):115-117.
5. Pateder DB, Park YS, Kebaish K, Song E, Cascio BM, Shapiro M, Buchowski JM and Kostuik JP. Spinal fusion after revision surgery for pseudarthrosis in adult scoliosis. *Spine* 2006 May 15;31(11):E314-9.
6. Cascio BM, Pateder DB, Wilckens JH, Frassica FJ: Compartment syndrome: time from diagnosis to fasciotomy. *J Surg Orthop Adv* 2005;14(3):117-121.
7. Cascio BM, Ain MC, Wilckens JH, Frassica FJ. Documentation of compartment syndrome at an academic health care center. *J Bone Joint Surg Am*. 2005 Feb;87(2):346-50.
8. Buchowski JM, Cascio BM, Streiff MB, Frassica FJ. Resection and reconstruction of a massive femoral hemophilic pseudotumor. *Clin Orthop Rel Res* 2005;430:237-242.
9. Cascio BM. Culp L, Cosgarea A. Return to play after knee ligament reconstruction. *Clin Sports Med* 2004;23,395-408.
10. Cascio BM, Buchowski JM, Frassica FJ. Well-limb compartment syndrome after lateral decubitus positioning: two case reports. *J Bone Joint Surg* 2004;86A(9),2038-2040.
11. Shindle M, Cascio BM, Khanuja H, McFarland E. Return to play after total joint arthroplasty. *Biomechanics* 2004; Feb,22-32.
12. Cascio BM, Thomas KA, Wilson SC. A mechanical comparison of transverse, step, and sigmoid osteotomy. *Clin Orthop Rel Res* 2003;411,296-304.
13. Wilson SC, Cascio BM, Plauche HR. Giant cell tumor of the capitata: a case report and literature Review. *Orthopaedics* 2001;24,1085-1086.
14. Wilson SC, Cascio BM, Randaisi V, Levine E, Chuinard RG, Neitzschman HR. Slowly growing mass on the tumb of a 24-year old woman. *Clin Orthop Rel Res* 1999; 367,315-322.
15. Wilson S, Cascio B, Neitzschman H. Nail puncture wound to the foot. *J La State Med Soc*. 1999; 151, 251-252.

16. Wilson S, Cascio B, Neitzschman H. Infection or neoplasm. *J La State Med Soc.* 1999; 151, 501-502.
17. Clasen C, Wilson S, Cascio B, Neitzschman H. Blastoma. *J La State Med Soc* 1998; 150, 575-577.

#### **THESIS PUBLICATIONS**

1. Cascio BM. Mechanical comparison of transverse, step, and sigmoid osteotomies for allograft fixation. Louisiana Sate University School of Medicine Honors Program.

#### **BOOK CHAPTERS**

1. Cascio BM. Peroneal Tendon Subluxation, Compartment Syndrome, Hamstring Sprain, and Ankle Pain in *5-Minute Orthopaedic Consult*. Frassica FJ, Wilckens J eds. Philadelphia:Lippincott Williams & Wilkins. Press scheduled 2006.
2. Ain MC, Cascio BM, Rigamonti D. Complications in achondroplastic spinal surgery. In: *Spinal Surgery Complications*, V Tolo, ed. New York: Springer Verlag, 2004:629-637.
3. Cosgarea A, Cascio BM. Medial patellofemoral ligament reconstruction and repair. *Masters Techniques in Knee Surgery*. Accepted. Book in progress.
4. Cascio BM, Cosgarea A. MRI of the Knee. In Khanna AJ. *MRI for Orthopaedic Surgeons*. Accepted. Book in progress.
5. Frassica FJ, Cascio BM, Papp D. Compartment syndrome in the critical care patient in *Avoiding Complications in the Critical Care Patient*. Accepted. Book in progress.

#### **ORAL PRESENTATIONS**

1. Cascio BM, Sterett B. High tibial osteotomies in the athlete. Colorado University Sports Medicine Conference. September, 2006. Course Director E. McCarty.
2. Cascio BM, Al-Talib T, Au A, Polotsky A, Hungerford DS, Frondoza CG. PMMA particles induce caspase 3, iNOS expression and apoptotic chondrocyte death. American Academy of Orthopaedic Surgeons. Chicago. March 21-26, 2006.
3. Cartilage Repair: State of the Art 2006. Grand Rounds. Johns Hopkins Department of Orthopaedic Surgery. April 6, 2006.
4. Compartment Syndrome. National Association of Orthopaedic Nurses, Baltimore Chapter. September, 2005.
5. Cascio BM, Sharma B, Fermanian S, Gurken I, , Mears S, Park HB, Williams CG, Elisseeff JH. Novel strategy for cartilage repair using acellular photopolymerizable hydrogels and subchondral drilling in a large animal model. Presented at The Society of Military Orthopaedic Surgeons Meeting, Vail, CO, 2004.
6. Gurkan I, Cascio BM, Sharma B, Fermanian S, Mears S, Park HB, Williams CG, Elisseeff JH. Articular Cartilage Repair: Novel Photopolymerizing Hydrogels With Integrating Adhesive. Presented at Maryland Orthopaedic Society Annual Meeting, Balitmore, MD, 2004. (I. Gurkan presenter)
7. Farmer KW, Cascio BM, McFarland E, et al. In-hospital morbidity, mortality, and economic impact of shoulder versus hip and knee arthroplasty. Presented at the Maryland Orthopaedic

- Society, Baltimore 2004 and 9th International Congress on Surgery of the Shoulder Meeting, Washington D.C., May 2004. (KW Farmer presenter)
8. Toulson, CE, Cascio BM, Wilckens JH, Ain MC, Frassica FJ. Documentation of compartment syndrome. National Medical Association. San Diego, CA, 2004. Medtronic Resident Symposium. 1<sup>st</sup> Place, orthopaedics division. (CT presenter)
  9. Cascio BM. Compartment syndrome: Diagnosis and treatment. Resident inservice. Johns Hopkins Department of Orthopaedics. 2002. Orthopaedic Nurse inservice, 2004.
  10. Cascio BM, Plauche HR, Pasqua A, Harris MB. Comparison of retrograde and antegrade femoral nailing: fifty-nine cases from the trauma registry of the Medical Center of Louisiana in New Orleans. Presented at the Eastern-Atlantic Student Research Forum, Miami, FL, February, 2001.
  11. Cascio BM, Thomas KA, Wilson SC. Comparison of the stiffness of transverse and step osteotomies in torsion. Presented at the National Student Research Forum, Galveston, TX, April 2000.
  12. Cascio BM, Wilson SC. The use of a sigmoid-shaped template to improve the efficiency of allograft insertion into long bones. Presented at the National Student Research Forum, Galveston, TX, April 1999.
  13. Thomas R, Cascio BM, Feagin JA. The influence of the menstrual cycle on ACL laxity. Presented at the American Academy of Orthopaedic Surgeons (AAOS), New Orleans, LA, March 1998. (Thomas R presenter)

#### **POSTERS**

1. Cascio BM, Ain MC, Pateder D, Wilckens JH, Mears S, Frassica FJ. A systems approach to the improvement of compartment syndrome documentation. American Academy of Orthopaedic Surgeons. Chicago. March 21-26, 2006.
2. Fermanian S, Sharma B, Cascio B, Mears S, Elisseeff JH. Chondral Lesion Repair in a Critical Size Defect Goat Model Using an Injectable Hydrogel Scaffold in Conjunction with Marrow Stimulation. International Cartilage Repair Society San Diego Jan 8-11, 2006 and American Orthopaedic Society for Sports Medicine. Hershey, PA. June 28-July 2, 2006. Accepted American Academy of Orthopaedic Surgeons. San Diego 2007.
3. Farmer KW, Cascio BM, McFarland E, et al. In-hospital morbidity, mortality, and economic impact of shoulder versus hip and knee arthroplasty. Presented at the American Academy of Orthopaedic Surgeons Meeting San Francisco, CA, March 2004.
4. Cascio BM, Ain MC, Frassica FJ. Inadequate documentation in compartment Syndrome: A Review of 30 cases. Presented at the American Academy of Orthopaedic Surgeons Meeting, San Francisco, CA, March 2004.
5. Cascio BM, Wilckens JH, Frassica FJ. Delay in from diagnosis to fasciotomy of compartment syndrome. Presented at the Society of Military Orthopaedic Surgeons (SOMOS) Meeting, Waikiki, Hawaii, December 2003.
6. Cascio BM, Thomas KA, Wilson SC. The mechanical evaluation of transverse, step, and sigmoid osteotomies for allograft fixation. Presented at the Orthopaedic Research Society (ORS), San Francisco, CA, February 2001.

**SCIENTIFIC EXHIBITS**

1. Farber A, Cascio BM, Khanna J. MRI of the shoulder. American Academy of Orthopaedic Surgeons. Chicago. March 21-26, 2006.
2. Kramer D, Cascio BM, Bahk M, Cosgarea A. Arthroscopy of the posterior compartment of the knee. American Academy of Orthopaedic Surgeons. Chicago. March 21-26, 2006.

**IN PROGRESS**

1. Farmer KW, Cascio BM, McFarland E, et al. In-hospital morbidity, mortality, and economic impact of shoulder versus hip and knee arthroplasty.
2. Shindle M, Cascio BM, McFarland E. Pectoralis major rupture: A case report and review. Paper in progress.
3. Campbell J, Cascio B, Bahk M. Operative treatment of calcaneus fractures in a high risk population.
4. Cascio BM, Sharma B, Fermanian S, Gurken I, , Mears S, Park HB, Williams CG, Elisseeff JH. Novel strategy for cartilage repair using acellular photopolymerizable hydrogels and subchondral drilling in a large animal model. Paper in progress.
5. Cascio BM, Al-Talib T, Au A, Polotsky A, Hungerford DS, Frondoza CG. PMMA particles induce caspase 3, iNOS expression and apoptotic chondrocyte death. Paper in progress.
6. Farber AJ, Cascio BM, Wilckens JW. The Treatment of Acute Type-III acromioclavicular separations: Literature review and rationale for free graft anatomic reconstruction. *Br J Sports Med* Submitted.
7. Cascio BM, Ain MC, Pateder D, Kramer DE, Farber A, Frassica FJ. A chart insert improved compartment syndrome documentation at an academic center. *Orthopaedics* Submitted.
8. Pateder DB, Cascio BM, Matusz D, Perez O, Kostuik JP, and Kebaish JP. Posterior only versus combined anterior and posterior approaches to lumbar scoliosis in adults: A radiographic analysis. *Spine*. Submitted.
9. Wang D, Cascio BM, Gurken I, Elisseeff JH. Multifunctional chondroitin sulfate for tissue integration. *Nature Materials*. Submitted. In revision.
10. Cascio BM, Steadman R. Revision microfracture. American Orthopaedic Association (AOA) Annual Meeting. Ashville, NC 2007. Accepted.
11. Cascio BM, Yen Y, Phillipon M. Sports hernia and femoral acetabular impingement. AOSSM Annual Meeting, Calgary, 2007. Submitted.

**TEAM and EVENT COVERAGE**

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|--------|--|
| 2003-5 | Johns Hopkins University Football (Division III) and Lacrosse (Division I) |
| 2003   | Sports Physical Exams, Baltimore County Public Schools                     |
| 2006   | Sports Physical Exams, Eagle Valley High School, Colorado                  |

Denver Broncos

Colorado Rockies

Vail Ultra 100 mountain bike race, October 2006

United States Ski Team, Snowboard Team

Race for the Cup, 2007, Snowboard Downhill, November 21, 2006.

**RESEARCH MENTORS**

John A. Feagin, Jr. MD. Duke University

Frank J. Frassica, MD. Johns Hopkins University

Richard Steadman, MD. Steadman-Hawkins Clinic, Vail.

Marc Phillipon, MD. Steadman-Hawkins Clinic, Vail

Jennifer Elisseeff, PhD, Johns Hopkins Biomedical Engineering