

Brandon Shallop, M.D.

Curriculum Vitae

Education:

(2019 – 2020) University of Miami
Coral Gables, Florida

- Orthopaedic Surgery Sports Medicine Fellowship

(2014 – 2019) Drexel University College of Medicine/Hahnemann University Hospital
Philadelphia, Pennsylvania

- Orthopaedic Surgery Residency Program
- Chief Resident (2018 – 2019)

(2010 – 2014) Jefferson Medical College
Philadelphia, Pennsylvania

- M.D.

(2006 – 2010) University of Michigan
Ann Arbor, Michigan

- Bachelor's of Science
- Major: Biology

Awards:

Jefferson Medical College

Clinical Honors:

- High Honors – Orthopaedic Surgery Selective Clerkship
- High Honors – Urology Selective Clerkship
- High Honors – Neurology Clerkship
- High Honors – Family Medicine Clerkship
- High Honors – Psychiatry Clerkship
- High Honors – Diagnostic Radiology

Preclinical Honors:

- Honors – Systems Physiology (2010 – 2011)
- Honors – Introduction to Clinical Medicine (2010 – 2011)

University of Michigan

University Academic Honors:

- Fall 2007
- Winter 2008
- Winter 2009
- Fall 2009
- Winter 2010

Publications:

1. Phillips ER, Haislup BD, Bertha N, Lefchak M, Sincavage J, Prudnikova K, **Shallop B**, Mulcahey MK, Marcolongo MS. Biomimetic Proteoglycans Diffuse throughout Articular Cartilage and Localize within the Pericellular Matri. *J Biomed Mater Res A*. 2019 May 6. doi: 10.1002/jbm.a.36710.
2. Erickson BJ, Gross C, Kumar N, **Shallop B**, Mjaanes J, et al. (2017) Concussions and Crime in the National Football League. *Ann Sports Med Res* 4(2): 1102.

3. Stephen R. Stephan, BS; **Brandon Shallop, MD**; Richard Lackman, MD; Tae Won B. Kim, MD; Mary K. Mulcahey, MD. Pigmented Villonodular Synovitis A Comprehensive Review and Proposed Treatment Algorithm. *JBSJ Reviews*. 2016 Jul; 4 (7): e3.
4. **Brandon Shallop, MD**; Alexandria Starks, MD; Simon Greenbaum, MD; David S. Geller, MD; Alan Lee, MD; John Ready, MD; Geno Merli, MD; Mitchell Maltenfort, PhD; John A. Abraham, MD. Thromboembolism After Intramedullary Nailing for Metastatic Bone Lesions. *J Bone Joint Surg Am*, 2015 Sep 16; 97 (18): 1503 -1511.
5. **Shallop B**, Abraham JA. Synovial Chondromatosis of Pes Anserine Bursa Secondary to Osteochondroma. *Orthopedics*. 2014 Aug 1;37(8):e735-8.
6. Maceroli M, Ponnappan R, **Shallop B**, Vaccaro A, Abraham J. Sacral Foraminal Osteochondroma Causing Radiculopathy: A Case Report. *JBSJ Case Connector*. 2013 Jul;3(3):e70 1-5.
7. Karanjia H, Abraham JA, O'Hara B, **Shallop B**, Daniel J, Taweel N, Schick FA. Distal Fibula Metastasis of Cholangiocarcinoma. *J Foot Ankle Surg*. 2013 Apr 8. pii: S1067-2516(13)00071-9.

Posters:

1. **Arthritic Human Cartilage Molecular Engineering Using Biomimetic Proteoglycans Shows Infiltration throughout the Cartilage Extracellular Matrix Ex Vivo**
Timeline: March 2017 *Principal Investigator:* Mary Mulcahey M.D.
Department: Orthopaedic Surgery
Location: Orthopaedic Research Society Annual Meeting. San Diego, CA
Poster Presentation
2. **Thromboembolism after Intramedullary Nailing for Metastatic Bone Lesions**
Timeline: March 2014 *Principal Investigator:* John Abraham M.D.
Department: Orthopaedic Surgery
Location: American Academy of Orthopaedic Surgeons Annual Meeting. New Orleans, LA
Poster Presentation
3. **Synovial Chondromatosis of the Pes Anserine Bursa Secondary to an Underlying Osteochondroma: A Case Report**
Timeline: October 2013 *Principal Investigator:* John Abraham M.D.
Department: Orthopaedic Surgery
Location: 44th Annual Eastern Orthopaedic Society Meeting. Miami, FL
Poster Presentation
4. **Sacral Foraminal Osteochondroma Causing Radiculopathy**
Timeline: October 2013 *Principal Investigator:* John Abraham M.D.
Department: Orthopaedic Surgery
Location: Musculoskeletal Tumor Society Annual Meeting. San Francisco, CA
Poster Presentation
5. **Thromboembolism After Intramedullary Nailing For Metastatic Bone Lesions**
Timeline: October 2013 *Principal Investigator:* John Abraham M.D.

Department: Orthopaedic Surgery

Location: Musculoskeletal Tumor Society Annual Meeting. San Francisco, CA

Poster Presentation

6. Distribution And Characterization Of Hemangiomas In The Spine

Timeline: October 2013

Principal Investigator: John Abraham M.D.

Department: Orthopaedic Surgery

Location: Musculoskeletal Tumor Society Annual Meeting. San Francisco, CA

Poster Presentation

7. Intramedullary Nail Stabilization Without Cementation And Curettage For Impending Pathologic Fractures: A Retrospective Review

Timeline: October 2013

Principal Investigator: John Abraham M.D.

Department: Orthopaedic Surgery

Location: Musculoskeletal Tumor Society Annual Meeting. San Francisco, CA

Poster Presentation

8. Efficacy of Image-guided Synovial Biopsy

Timeline: October 2013

Principal Investigator: John Abraham M.D.

Department: Orthopaedic Surgery

Location: Musculoskeletal Tumor Society Annual Meeting. San Francisco, CA

Poster Presentation

9. Effect of Needle Type on Core Biopsy Specimen Quality

Timeline: October 2013

Principal Investigator: John Abraham M.D.

Department: Orthopaedic Surgery

Location: Musculoskeletal Tumor Society Annual Meeting. San Francisco, CA

Poster Presentation

10. Epithelioid Sarcoma-like Hemangioendothelioma of Bone: A Case Report

Timeline: September 2013

Principal Investigator: John Abraham M.D.

Department: Orthopaedic Surgery

Location: 17th International Society of Limb Salvage Meeting. Bologna, Italy

Poster Presentation

11. Distribution and Characterization of Hemangiomas in the Spine

Timeline: September 2013

Principal Investigator: John Abraham M.D.

Department: Orthopaedic Surgery

Location: 17th International Society of Limb Salvage Meeting. Bologna, Italy

Poster Presentation

12. Intramedullary Nail Stabilization of Impending and Complete Pathologic Fractures Without Curettage or Cementation

Timeline: September 2013

Principal Investigator: John Abraham M.D.

Department: Orthopaedic Surgery

Location: 17th International Society of Limb Salvage Meeting. Bologna, Italy

Poster Presentation

13. Complex Tibial Plateau Nonunion Treated with Total Knee Arthroplasty

Timeline: June 2013

Principal Investigator: John Abraham M.D.

Department: Orthopaedic Surgery

Location: 5th Annual Philadelphia Trauma Symposium. Philadelphia, PA

Poster Presentation

14. Intramedullary Nail Stabilization of Impending and Complete Pathologic Fractures Without Curettage or Cementation

Timeline: June 2013 Principal Investigator: John Abraham M.D.

Department: Orthopaedic Surgery

Location: 5th Annual Philadelphia Trauma Symposium. Philadelphia, PA

Poster Presentation

15. Distal Fibula Metastasis of Cholangiocarcinoma

Timeline: August 2012 Principal Investigator: John Abraham M.D.

Department: Orthopaedic Surgery

Location: American Podiatric Medical Association National Scientific Meeting. Washington, DC

Poster Presentation

Podium

Presentations:

1. Intramedullary Nail Stabilization of Impending and Complete Pathologic Fractures Without Curettage or Cementation

Timeline: March 2014 Principal Investigator: John Abraham M.D.

Department: Orthopaedic Surgery

Location: American Academy of Orthopaedic Surgeons Annual Meeting. New Orleans, LA

2. Intramedullary Nail Stabilization of Impending and Complete Pathologic Fractures Without Curettage or Cementation

Timeline: October 2013 Principal Investigator: John Abraham M.D.

Department: Orthopaedic Surgery

Location: 44th Annual Eastern Orthopaedic Society Meeting. Miami, FL

Book Chapters:

1. Patel, N; **Shallop, B**; Cohen, S. "Proximal Hamstring Ruptures." *World Clinics Orthopedics 2017*. Matthew S., M.D. Austin. Jaypee Brothers Medical Pub; 1 edition. 2014.

2. **Shallop, B**; Abraham, JA. "Hip Disarticulation." *THE HIP: Preservation, Replacement, and Revision*, Ed. Javad Parvizi, Nitin Goyal, James Cashman. Towson: Data Trace Publishing Company. 2015.

Ongoing

Research:

1. Analysis and Characterization of Human Osteoarthritic Articular Cartilage and Synovial Fluid with Synthetic Aggrecan

Timeline: 2014 – Present Principal Investigator: Mary Mulcahey M.D.

Department: Orthopaedic Surgery

Location: Drexel University College of Medicine Department of Orthopaedic Surgery

Clinical Study – A prospective cohort study aimed to: 1. Measure the viscosity of human synovial fluid from osteoarthritic knees undergoing elective total knee arthroplasty; 2. Determine if discarded articular cartilage and meniscal tissue from patients undergoing total knee arthroplasty for osteoarthritis has the ability to absorb synthetic aggrecan and how it affects the tissues nanomechanical properties; 3. Quantify expression of TGF- β and Lubricin in human synovial fluid from osteoarthritic knees undergoing elective total knee arthroplasty.

Most Recent Status: Study In Progress, IRB approved

Previous Research

Experiences:

1. William Beaumont Hospital Medical Student Summer Externship Program

Timeline: June 2011 – August 2011

Department: General Surgery

Location: William Beaumont Hospital. Royal Oak, Michigan

Position: Research Assistant and Student Observer

Summer Research Externship - As an extern I assisted the current 4th year surgery residents on their ongoing research projects. In addition, I was able to shadow in all departments of general surgery. This allowed me to scrub in and assist in a myriad of cases. Further, I was able to partake in educational classes/seminars where I learned valuable surgical techniques.

2. Undergraduate Research Opportunity Program (“UROP”)

Timeline: 2007 – 2008

Principal Investigator: Juan Lopez M.D.

Department: Neuroscience

Location: University of Michigan. Ann Arbor, MI

Position: Undergraduate Research Assistant

Clinical Research – Investigating the overexpression of 5HT-1A (serotonin) receptors in mice models in an attempt to study changes in anxiety-like behavior. The results were to be the foundation for further research into the relationship between 5HT receptors and postpartum mood disorders.

Leadership

Experience:

(2017 – 2018) American Academy of Orthopaedic Surgeons (AAOS) Resident Delegate

- Resident Delegate for Drexel University College of Medicine
 - The Resident Delegate is responsible for submitting Actions, serving on committees, debating action items, and communicating information from the AAOS to residents in their respective orthopaedic residency program.

(2013 – 2014) Jefferson Orthopaedic Surgery Society

- Vice President
 - As vice president it was my role to help organize and orchestrate lectures, clinical skills sessions, and charity events for the society. As a leader in this organization I tried to impart my passion for orthopaedics to the underclassmen in an effort to spark new interests amongst them.

(2012 – 2013) Jefferson Orthopaedic Surgery Society

- Executive board member
 - I helped coordinate evening lectures, organize annual charity events, and orchestrated a suturing clinic for medical students sponsored by Ethicon for the medical student run orthopaedic surgery interest group at Jefferson Medical College.

(2010 – 2012) Jefferson Medical College

- Student Interviewer
 - It was my role conduct interviews with applicants to Jefferson Medical College, and give my input to the admissions committee to help decide if an applicant was qualified and would be a good fit for the medical school.

(2010 – 2011) Jefferson Medical College

- Introduction to Clinical Medicine (ICM-1) Small Group Student Liaison

- ICM-1 was a year long course during the first year of medical school aimed at beginning the process that enables medical students to take on the multiple roles of a physician. This course emphasized communication, physical exam, self-directed learning and reflection, and clinical reasoning. In addition to lectures, this course had weekly small group sessions, which were designed as forums to explore and discuss difficult questions related to the practice of medicine. It was my role as the small group liaison to interact with the faculty directors of the ICM-1 course at Jefferson Medical College on behalf of the students and to help facilitate small group discussions.

(2010 – 2012) Jefferson Medical College

- Health Mentors Program Student Liaison
 - The Health Mentors Program is an interdisciplinary educational program which combines a mentor from the community and teams of Jefferson students from the disciplines of medicine, nursing, physical therapy, occupational therapy, pharmacy, and couples and family therapy. The goals of the program were to understand and value the roles and contributions of various members of the healthcare team while looking at the perspective of the patient and appreciating the notion of patient-centered care. It was my role as the student liaison to set up seasonal meetings with my teams Health Mentor and to provide leadership and organization to group as a whole.

(2010 – 2011) Jefferson Medical College

- Admissions Day Tour Guide
 - It was my role to offer a tour of Jefferson's campus to applicants to the medical college.

Employment:

(2007 – 2010) Edgewood Center Pediatrics

Location: Commerce Township, Michigan

Position: Medical Assistant

- My job responsibilities included preparing examination rooms, filling out charts, taking temperatures, taking blood pressure, measuring height/weight/head circumference, testing urine specimens, taking blood specimens, operating complete blood count (CBC) machine, plating strep throat cultures, communicating lab results with patients, inventorying office supplies, filling and administering injections, consulting physicians about symptoms of waiting patients.

(2008 – 2009) University of Michigan Science Learning Center

Location: Ann Arbor, Michigan

Position: Introductory Level Physics Study Group Leader

- As a study group leader it was my responsibility to host weekly sessions to review current material in the course. I would make worksheets weekly that contain difficult problems that challenged the students in my group to incorporate multiple concepts.

(2004 – 2008) Temple Israel Summer Day Camp

Location: West Bloomfield, Michigan

Position: Summer Camp Counselor

- As a camp counselor for five summers, I helped develop and enhance various skills in children ages 3 to 5 years. Activities ranging from arts and crafts to cooking and tasks such as hand washing, shoe tying, and dressing were all part of my responsibilities. I worked with the children in teaching them sharing, good manners, and sportsmanship.

Volunteer Experience:

(2010 – 2014) JeffHOPE

- Active volunteer in student run free health care clinics organized throughout center city Philadelphia.

(2008 – 2010) University of Michigan Hospital

- Active volunteer in the Post Anesthesia Care Unit (PACU). It was my role to assist patients out of the operating room and into the PACU, where I would check vitals and hook up monitors.

(2008 – 2010) Sigma Alpha Lambda National Honors Fraternity

- Founding Member of University of Michigan Chapter
 - During the first semester of my junior year at the University of Michigan, a group of my friends and I met to discuss the possibility of starting a new chapter of Sigma Alpha Lambda at our university Sigma Alpha Lambda is a nationally recognized coed honors fraternity, which was not represented at U of M. We created a plan for getting the chapter up and running as well as to garner support from the University's administration. As a founding member, it was my responsibility to build the reputation of the fraternity so that membership would grow. Furthermore, as an active member I coordinated and participated in multiple community service events, such as Relay for Life, the Detroit Project, and working with Big Brothers, Big Sisters of Washtenaw County, Michigan.

Society Memberships:

(2017 – Present) American Orthopaedic Society for Sports Medicine (AOSSM) Resident Member

- Active Member

(2017 – Present) Arthroscopy Association of North America (AANA) Resident Member

- Active Member

(2014 – Present) American Academy of Orthopaedic Surgeons (AAOS) Resident Member

- Active Member

(2014 – Present) International Congress of Joint Reconstruction (ICJR) Resident Member

- Active Member

(2010 – 2014) Jefferson Orthopaedic Surgery Society

- Active Member/Executive Board Member

(2010 – 2014) Jefferson Gibbon Surgical Society

- Active Member

(2010 – Present) American Medical Association (AMA)

- Active Member

Licenses:

ABOS Part 1: passed 7/11/2019

USMLE Step 1: passed, 06/22/2012

USMLE Step 2 CK: passed, 07/15/2013

USMLE Step 2 CS: passed, 07/31/2013

USMLE Step 3: passed, 12/08/2014

ACLS/ATLS Certified

Hobbies:

1. Fishing – have traveled to numerous locations worldwide and fished both recreationally and competitively in local tournaments
2. Golf – competed on high school golf team for 3 years.
3. Basketball – played recreationally and in intramural leagues from high school to the present
4. University of Michigan Athletics – loyal fan of Michigan football and basketball. GO BLUE!