

Joshua A. Shapiro, M.D.

Education and Postgraduate Training

Anderson Orthopaedic Research Institute Fellowship in Adult Reconstruction Fellowship Director: William G. Hamilton, MD August 1, 2022 – July 31, 2023	Alexandria, VA
University of North Carolina at Chapel Hill Residency in Orthopaedic Surgery Program Director: Robert J. Esther, MD June 24, 2016 – June 23, 2022	Chapel Hill, NC
University of Colorado School of Medicine Doctor of Medicine (M.D.) August 13, 2012 – May 27, 2016	Aurora, CO
Vanderbilt University Bachelor of Arts (B.A.) Molecular and Cellular Biology, cum laude August 18, 2008 – May 11, 2012	Nashville, TN

Medical Licensure

Virginia Medical License: 0101274402
Maryland Medical License: (Pending)
North Carolina Medical License: RTL16-0078
Drug Enforcement Agency (DEA) License: Active
National Provider Identification (NPI) #: 1225482060

Board Examinations

ABOS Part 1: (pending, July 14, 2022)
ABOS Part 2: (pending)
USMLE Step 1: 268
USMLE Step 2CK: 264
USMLE Step 2CS: Pass
USMLE Step 3: 246

Professional Societies

American Orthopaedic Association Emerging Leader	2021 – Present
American Association of Hip and Knee Surgeon Arthroplasty Surgeon in Training	2019 – Present
American Academy of Orthopaedic Surgeons Resident Member	2016 – Present

Honors, Awards, and Recognitions

American Orthopaedic Association’s C. McCollister Evarts Resident Leadership Forum Nominated Attendee	2021
North Carolina Orthopaedic Association Hip and Knee Research Award	2019
Phi Beta Kappa, Alpha Chapter of Tennessee	2012
Vanderbilt University Dean’s List, 7/8 semesters	2008 – 2012
South Eastern Collegiate Hockey Conference All-Academic Team	2010 – 2011
American Collegiate Hockey Association All-Academic Team	2010 – 2011

Teaching and Leadership Experience

UNC Orthopaedics Administrative Chief Resident Selected by the UNC faculty as the chief resident in charge of call and vacation scheduling.	2020 – 2022
Med School Tutors Hired tutor for the USMLE Step 1, 2, and 3 and medical school preclinical coursework. I tutored 29 students and averaged over 20 hours of one on one time per student.	2015 – 2020
University of North Carolina School of Medicine Lecturer and Small Group Facilitator for the MS1 and MS2 Musculoskeletal Course.	2017 – 2018

Peer Reviewed Publications

1. Barnes RH, **Shapiro JA**, Woody N, Chen F, Olcott CW, Del Gaizo DJ., et al. "Reducing Opioid Prescribing Lowers Consumption and Improves Patient Reported Pain Interference Scores Following Total Hip and Knee Arthroplasty." *Arthroplasty Today*. 2020 Dec; 6(4): 919–924. PMID: 33204789.
2. **Shapiro JA**, Alvarez P, Paterno A, Olcott, CW, & Del Gaizo DJ. "Analysis of Risks and Consequences of Post-Catheter Urinary Retention Following Primary Total Hip and Knee Arthroplasty." *Arthroplasty Today*. 2020 Nov 3;6(4):888-893. PMID: 33195782.
3. **Shapiro JA**, Feinstein SD, Jewell E, Taylor RR, Weinhold PS, & Draeger RW. "A Biomechanical Comparison of Modified Radioscapholunate Arthrodesis Techniques for Radiocarpal Arthritis." *The Journal of Hand Surgery*. 2020 Oct; 45(10): 983. e1-983.e7. PMID: 32327339.
4. **Shapiro JA**, Stillwagon MR, Padovano AG, Moll S, & Lim MR. "An Evidence-Based Algorithm for Determining Venous Thromboembolism Prophylaxis after Degenerative Spinal Surgery." *International Journal of Spine Surgery*. 2020 Aug; 14(4) 599-606. PMID: 32986584.
5. **Shapiro JA**, Narayanan AS, Taylor PR, Olcott CW, & Del Gaizo DJ. "Fate of the Morbidly Obese Patient who is Denied Total Joint Arthroplasty." *The Journal of Arthroplasty*. 2020 June; 35(6S): S124-S128. PMID: 32088050.
6. **Shapiro JA**, AbuMoussa S, Lindsay C, Mason G, Dahners LE, & Weinhold PS. "Local Minocycline Microspheres do not Adversely Affect Osseointegration of Titanium Implants in a Rat Model." *Journal of Orthopaedics*. 2019 Dec 12;20: 213-216. PMID: 32051671.
7. **Shapiro JA**, Eskildsen SM, & Del Gaizo DJ. "Systemic Cobaltism Manifesting as Oral Mucosal Discoloration and Metallic Gustation after Metal on Metal Hip Resurfacing." *Arthroplasty Today* 2018 Aug 16;4(4): 436-440. PMID: 30560172.
8. Seidl A, Baldini T, Krughoff K, **Shapiro JA**, Lindeque B, Rhodes J, & Carollo J. "Biomechanical Assessment of Patellar Advancement Procedures for Patella Alta." *Orthopedics* 2016 May 1;39(3): 492-497. PMID: 27135457.
9. Kian K, **Shapiro JA**, Salman L, Khan RAH, Merrill D, Garcia L, Eid N, Asif A, Aldahan A, & Beathard G. "High Brachial Artery Bifurcation: Clinical Considerations and Practical Implications for an Arteriovenous Access." *Seminars in Dialysis* 2012 Mar-Apr;25(2): 244-247. PMID: 21929569.

Research Submitted for Publication

1. **Shapiro JA**, Stillwagon MR, Tornetta P, Seaver TM, Gage M, O'Donnell J, Whitlock K, Yarboro S, Jeray KJ, Obremsky WT, Rodriguez-Buitrago A, Matuszewski PE, Lin FC, & Ostrum RF. "Serology and Comorbidities in Patients with Fracture Nonunion: A Multicenter Evaluation of 640 Patients."
Accepted pending minor revisions to the Journal of the American Academy of Orthopaedic Surgeons
2. Tornetta P, Olszewski N, ... **Shapiro JA**, et al. "Bicondylar Plateau Fractures: What Predicts Infection?"
Accepted pending minor revisions to the Journal of the American Academy of Orthopaedic Surgeons

Research Presented at National and Regional Conferences

Podium Presentations

1. Ostrum RF, **Shapiro JA**, Stillwagon MR, Yarboro S, Jeray KJ, Tornetta P, Matuszewski PE, & Lin FC. "Serological and Nutritional Assessment of Nonunion: A Multicenter Investigation." Orthopaedic Trauma Association Annual Meeting. Nashville, TN, 23 Oct 2020.
2. **Shapiro JA**, Taylor PR, Narayanan AS, Olcott CW, & Del Gaizo DJ. "Fate of the Morbidly Obese Patient who is Denied Total Joint Arthroplasty." American Association of Hip and Knee Surgeons Annual Meeting. Dallas, TX, 9 Nov 2019.
3. **Shapiro JA**, Alvarez P, Paterno A, & Del Gaizo DJ. "Post Catheter Urinary Retention Following Lower Limb Arthroplasty: Risks and Consequences." North Carolina Orthopaedic Association Annual Meeting. Greensboro, NC, 10-13 Oct 2019.
4. **Shapiro JA**, Stillwagon MR, Moll S, & Lim MR. "An Evidence-Based Algorithm for Determining Venous Thromboembolism Prophylaxis after Degenerative Spinal Surgery." North Carolina Orthopaedic Association Annual Meeting. Greensboro, NC, 13 Oct 2019.
5. **Shapiro JA**, Stillwagon MR, White BR, Seaver T, Yarboro S, Jeray K, Tornetta P, & Ostrum RF. "Lab Abnormalities and Systemic Health Factors Associated with Infected Nonunion: A Multicenter Investigation." North Carolina Orthopaedic Association Annual Meeting. Greensboro, NC, 13 Oct 2019.

6. ***The North Carolina Orthopaedic Association Hip and Knee Research Award:***
Barnes RH, **Shapiro JA**, Olcott CW, Del Gaizo DJ, et al. “Reducing Opioid Prescribing Lowers Consumption and Improves Patient Reported Pain Interference Scores Following Total Hip and Knee Arthroplasty.” North Carolina Orthopaedic Association Annual Meeting. Greensboro, NC, 12 Oct 2019.
7. Tornetta P, Olszewski N, ... **Shapiro JA**, et al. "Bicondylar Plateau Fractures: What Predicts Infection?" Orthopaedic Trauma Association Annual Meeting. Denver, CO, 27 Sep 2019.
8. **Shapiro JA**, Feinstein SD, Jewell E, Taylor RR, Weinhold PS, & Draeger RW. “A Biomechanical Comparison of Radioscapholunate Arthrodesis Techniques for Radiocarpal Arthritis.” American Society for Surgery of the Hand Annual Meeting, Adrian E Flatt Residents & Fellows Conference. Las Vegas, NV, 4 Sep 2019.
9. **Shapiro JA**, White B., Seaver T., Yarboro S., Jeray K., Tornetta P., Ostrum RF. “Nutritional health factors associated with nonunion: a multicenter investigation.” 32nd Annual Southeastern Fracture Symposium. Chapel Hill, NC, 31 Jan 2019.

Poster Presentations

1. Marchwiany DA, **Shapiro JA**, Balkam C, Taylor PR, Huang, K, Olcott CW, & Del Gaizo DJ. “The Biggest Losers: Morbidly Obese Patients with Successful Weight Loss Before and After TKA and THA.” American Academy of Orthopaedic Surgeons Annual Meeting. San Diego, CA, 2-3 Sep 2021.
2. Marchwiany DA, **Shapiro JA**, Balkam C, Taylor PR, Huang, K, Olcott CW, & Del Gaizo DJ. “The Biggest Losers: Morbidly Obese Patients with Successful Weight Loss Before and After TKA and THA.” American Association of Hip and Knee Surgeons Annual Meeting. Dallas, TX, 5-8 Nov 2020.
3. Barnes RH, **Shapiro JA**, Olcott CW, Del Gaizo DJ, et al. “Reducing Opioid Prescribing Lowers Consumption and Improves Patient Reported Pain Interference Scores Following Total Hip and Knee Arthroplasty.” American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL, 26 Mar 2020. (*Meeting Canceled COVID-19*).
4. Tornetta P, Olszewski N, ... **Shapiro JA**, et al. "Bicondylar Plateau Fractures: What Predicts Infection?" Academy of Association of Orthopaedic Surgeons Annual Meeting, Orlando, FL, 26 Mar 2020. (*Meeting Canceled COVID-19*).

5. Barnes RH, **Shapiro JA**, Olcott CW, Del Gaizo DJ, et al. “Reducing Opioid Prescribing Lowers Consumption and Improves Patient Reported Pain Interference Scores Following Total Hip and Knee Arthroplasty.” American Association of Hip and Knee Surgeons Annual Meeting. Dallas, TX, 7-10 Nov 2019.
6. **Shapiro JA**, Alvarez P, Paterno A, & Del Gaizo DJ. “Post-Operative Urinary Retention Affects Renal Function Following Lower Limb Arthroplasty.” American Association of Hip and Knee Surgeons Annual Meeting. Dallas, TX, 7-10 Nov 2019.
7. **Shapiro JA**, Feinstein SD, Jewell E, Taylor RR, Weinhold PS, & Draeger RW. “A Biomechanical Comparison of Radioscapholunate Arthrodesis Techniques for Radiocarpal Arthritis.” American Society for Surgery of the Hand Annual Meeting. Las Vegas, NV, 5-7 Sep 2019.
8. Esther RJ & **Shapiro JA**. “Comparative cost analysis of pre-clinical medical student musculoskeletal education.” American Orthopaedic Association Annual Leadership Meeting. San Diego, CA, 25-29 Jun 2019.
9. Weinhold PS, AbuMoussa S, Mason G, Lindsay C, **Shapiro JA**, & Dahners LE. “Local Minocycline Microspheres do not Adversely Affect Osseointegration of Titanium Implants in a Rat Model.” Orthopaedic Research Society Annual Meeting. Austin, TX, 2-5 Feb 2019

Research in Progress

1. **Shapiro JA**, Tennant JN, Lalli TA. “Understanding perioperative glycemic control: is fructosamine or hemoglobin A1C a better predictor of 30 and 90 day all cause morbidity and mortality following elective foot and ankle surgery?”
Currently in data collection with planned submission to Foot and Ankle International.

Textbook Chapters

1. **Shapiro JA**. “Incidence and Prevalence of Musculoskeletal Disease.” pp. 3-9. *Clinical Foundations of Musculoskeletal Medicine*. (Robert J. Esther, eds). Springer. Switzerland. 2021. DOI: 10.1007/978-3-030-42894-5_1
2. **Shapiro JA**. “Vascular Disorders of Bone.” pp. 173-186. *Clinical Foundations of Musculoskeletal Medicine*. (Robert J. Esther, eds). Springer. Switzerland. 2021. DOI: 10.1007/978-3-030-42894-5_15

Other Authored Content

1. **Shapiro, JA** “Orthopedic Surgery Competitiveness: Matching, Clerkships, USMLE Scores, 4th Year, Subinternships & More.” *Med School Tutors*. Jan 7, 2020. www.medschooltutors.com/
2. **Shapiro, JA** “Matching into Orthopaedic Surgery: Clerkships, USMLE Scores, 4th Year, Subinternships, & More.” *Med School Tutors*. June 6, 2016. www.medschooltutors.com/
3. **Shapiro, JA** “How to Excel in Clinical Rotations: A Guide for Rising Third and Fourth Year Students” *Med School Tutors*. May 31, 2016. www.medschooltutors.com/