

Curriculum Vitae
Stephanie Muh M.D.

EMPLOYMENT

2012 – present

Henry Ford Health Systems

Chief, Shoulder and Elbow Surgery Service Line
Associate Program Director – Residency Program
Clinical Assistant Professor – Wayne State University School of Medicine
Department of Orthopaedics
Detroit, MI 48202

Henry Ford West Bloomfield Hospital
Deputy Chief, Department of Orthopaedics Surgery Service, West
Bloomfield Hospital
West Bloomfield, MI 48322

EDUCATION

2011 – 2012

**Cleveland Akron Shoulder Elbow (CASE) Fellowship, Case Western
Reserve University**

Shoulder and Elbow Fellowship
Cleveland, OH

2007 – 2011

Henry Ford Health Systems

Residency, Orthopaedic Surgery
Detroit, MI

2006 – 2007

Henry Ford Health Systems

Internship, Orthopaedic Surgery
Detroit, MI

2002 – 2006

Drexel University College of Medicine (formerly MCP Hahnemann)

Medical Degree
Philadelphia, PA

1995 – 1999

Emory University

Bachelor of Science
Atlanta, GA

PROFESSIONAL APPOINTMENTS

2021 – Present	Henry Ford Health Systems Chief, Shoulder and Elbow Service
2020 – Present	Wayne State University School of Medicine Clinical Assistant Professor
2020 – 2021	Henry Ford Health Systems Director of Resident Research, Department of Orthopaedics
2019 – Present	Henry Ford Health Systems Associate Director Sports Medicine Fellowship, Department of Orthopaedic Surgery
2018 – 2020	Henry Ford Health Systems Research Chair, Department of Orthopaedics Research Committee

LICENSURE

American Board of Orthopaedic Surgery – Board Certified 2024
Michigan Board of Medicine Physician License – active
Michigan Board of Pharmacy Controlled Substance License – active

PROFESSIONAL SOCIETY MEMBERSHIPS

Arthroscopy Association of North America (AANA) - Associate Member
American Academy of Orthopaedic Surgeons (AAOS) – Fellow Member 2015
American Orthopaedic Association (AOA) – Fellow
American Shoulder and Elbow Society (ASES) –Associate Member
American Medical Association
Michigan Orthopaedic Society

PROFESSIONAL DEVELOPMENT

American Shoulder and Elbow Society Leadership Development Program 2021-2022
AOA | USC APEX Leadership Certificate Program 2021 - 2022

EDITORIAL/REVIEWER ACTIVITIES

Journal of Shoulder and Elbow Surgery Reviewer
Journal of Shoulder and Elbow Surgery International Associate Editor 2021 - present
Associate Editor for the JBJS Associate Editor Panel
Open Journal of Orthopaedics Reviewer

COMMITTEES

AOA Critical Issues/Educational Program Committee Member 2019-2022

AAOS Shoulder and Elbow Program Committee Member 2019 – 2022
American Shoulder and Elbow Society Diversity Equity and Inclusion Committee 2020-2022
American Shoulder and Elbow Society Foundation Committee 2021 - present
Henry Ford West Bloomfield Trauma Committee 2019 - present
AAOS Education Assessments and Examinations Committee 2020 – present
Henry Ford Department of Orthopaedics Clinical Competency Committee

VISITING PROFESSORSHIPS

November 2018 - UAE Ministry of Health and Prevention Visiting Consultant – Khorfakkan Hospital
October 2019 - UAE Ministry of Health and Prevention Visiting Consultant – Khorfakkan Hospital
Sept 2021 – UAE Ministry of Health and Prevention Visiting Consultant – Khorfakkan Hospital, Saqr Hospital
March 2022 – UAE Ministry of Health and Prevention Visiting Consultant – Khorfakkan Hospital, Kalba Hospital

AWARDS

2022 American Shoulder and Elbow Society Asian Traveling Fellow

2021 Faculty Henry Ford Hospital Golden Apple Award
Selected by Department of Orthopaedic graduating residents

2016, 2019, 2020 Finalist American Shoulder and Elbow Society Neer Award
This award recognizes outstanding clinical investigation contributing to the understanding, care or prevention of injuries to the shoulder and elbow

PUBLICATIONS

1. Warren JR, Khalil LS, Pietroski AD, Burdick GB, McIntosh MJ, Guthrie ST, **Muh SJ**. Perceived effectiveness of video interviews for orthopaedic surgery residency during COVID-19. BMC Med Educ. 2022 Jul 22;22(1):566. doi: 10.1186/s12909-022-03623-0. PMID: 35869546; PMCID: PMC9308303.
2. Soliman SB, Davis JJ, **Muh SJ**, Vohra ST, Patel A, van Holsbeeck MT. Ultrasound evaluations and guided procedures of the painful joint arthroplasty. Skeletal Radiol. 2022 May 28. doi: 10.1007/s00256-022-04080-y. Epub ahead of print. PMID: 35624311.
3. Warren JR, Khalil LS, Pietroski AD, **Muh SJ**. Injection of adipose stem cells in the treatment of rotator cuff disease - a narrative review of current evidence. Regen Med. 2022 Jul;17(7):477-489. doi: 10.2217/rme-2021-0166. Epub 2022 May 19. PMID: 35586993.

4. Meta F, Khalil LS, Ziedas AC, Gullede CM, **Muh** SJ, Moutzouros V, Makhni EC. Preoperative Opioid Use Is Associated With Inferior Patient-Reported Outcomes Measurement Information System Scores Following Rotator Cuff Repair. *Arthroscopy*. 2022 Apr 7:S0749-8063(22)00224-9. doi: 10.1016/j.arthro.2022.03.032. Epub ahead of print. PMID: 35398483.
5. Tramer JS, Yedulla NR, Ziedas AC, Patel M, Franovic S, **Muh** SJ, Makhni EC. Risk Factors for Failure to Achieve Minimal Clinically Important Difference and Significant Clinical Benefit in PROMIS CAT Domains in Patients Undergoing Rotator Cuff Repair. *J Shoulder Elbow Surg*. 2022 Feb 13:S1058-2746(22)00221-X. doi: 10.1016/j.jse.2022.01.125. Epub ahead of print. PMID: 35172206.
6. Pietroski AD, Burdick GB, Warren JR, Franovic S, **Muh** SJ. Patient-Reported Outcomes Measurements Information System (PROMIS) upper extremity and pain interference do not significantly predict rotator cuff tear dimensions. *JSES Int*. 2021 Nov 20;6(1):56-61. doi: 10.1016/j.jseint.2021.10.003. PMID: 35141677; PMCID: PMC8811379.
7. Khalil LS, Jildeh TR, Abbas MJ, Klochko CL, Scher C, Van Holsbeeck M, **Muh** SJ, Makhni EC, Moutzouros V, Okoroha KR. Elbow Torque May be Predictive of Anatomic Adaptations to the Elbow After a Season of Collegiate Pitching: A Dynamic Ultrasound Study. *Arthrosc Sports Med Rehabil*. 2021 Oct 9;3(6):e1843-e1851. doi: 10.1016/j.asmr.2021.08.012. PMID: 34977639; PMCID: PMC8689260.
8. Taylor K, Warren JR, Jildeh T, Kuhlmann N, Pietroski AD, Beydoun R, Keinath C, **Muh** SJ. The Impact of External Beam Radiation Therapy on Shoulder Surgical Outcomes: A Case Series Study. *J Shoulder Elbow Surg*. 2021 Dec 10:S1058-2746(21)00831-4. doi: 10.1016/j.jse.2021.11.003. Epub ahead of print. PMID: 34902586.
9. Lizzio VA, James CL, Pietroski AD, Kuhlmann NA, Franovic S, Warren JR, **Muh** SJ. Characterizing Preoperative Expectations for Patients Undergoing Reverse Total Shoulder Arthroplasty. *J Shoulder Elbow Surg*. 2021 Oct 4:S1058-2746(21)00702-3. doi: 10.1016/j.jse.2021.08.030. Online ahead of print. PMID: 34619351
10. Klag EA, Okoroha KR, Kuhlmann NA, Sheena G, Chen C, **Muh** SJ. Does the use of periarticular anesthetic cocktail provide adequate pain control following shoulder arthroplasty? *Shoulder Elbow*. 2021 Oct;13(5):502-508. doi: 10.1177/1758573220916916. Epub 2020 Apr 23. PMID: 34659483
11. Klag EA, Kuhlmann NA, Tramer JS, Franovic S, **Muh** SJ. Dexamethasone decreases postoperative opioid and antiemetic use in shoulder arthroplasty patients: a prospective, randomized controlled trial. *J Shoulder Elbow Surg*. 2021 Jul;30(7):1544-1552. doi: 10.1016/j.jse.2020.12.005. Epub 2021 Jan 22. PMID: 33486058.
12. Tramer JS, Patel R, Kuhlmann NA, **Muh** SJ. Simultaneous, Ipsilateral Distal Biceps and Distal Triceps Rupture in Healthy Weight Lifter: A Case Report. *JBJS Case Connect*. 2021 Jul 12;11(3). doi: 10.2106/JBJS.CC.20.00693. PMID: 34252056

13. Tramer JS, Klag EA, Kuhlmann NA, Sheena GJ, **Muh SJ**. Return to Golf Following Reverse Total Shoulder Arthroplasty. *Arch Bone Jt Surg*. 2021 May;9(3):306-311. doi: 10.22038/abjs.2020.40802.2109. PMID: 34239957
14. Lawrence RL, Ruder MC, Moutzouros V, Makhni EC, **Muh SJ**, Siegal D, Soliman SB, van Holsbeeck M, Bey MJ. Ultrasound shear wave elastography and its association with rotator cuff tear characteristics. *JSES Int*. 2021 Jan 27;5(3):500-506. doi: 10.1016/j.jseint.2020.11.008. eCollection 2021 May. PMID: 34136861
15. Cross AG, Yedulla NR, Ziedas AC, Elhage KG, Guo EW, Hessburg LT, Moutzouros V, **Muh SJ**, Makhni EC. Trends in Patient-Reported Outcomes Measurement Information System Scores Exist Between Day of Surgical Scheduling and Day of Surgery. *Arthroscopy*. 2021 Jun 12:S0749-8063(21)00576-4. doi: 10.1016/j.arthro.2021.05.063. Online ahead of print. PMID: 34126217
16. Franovic S, Pietroski A, Kuhlmann N, Bazzi T, Zhou Y, **Muh S**. Rockwood Grade-III Acromioclavicular Joint Separation: A Cost-Effectiveness Analysis of Treatment Options. *JB JS Open Access*. 2021 May 4;6(2):e20.00171. doi: 10.2106/JBJS.OA.20.00171. eCollection 2021 Apr-Jun. PMID: 34056509
17. Hessburg LT, Ziedas AC, Cross AG, Elhage K, Guo EW, Yedulla N, Koolmees D, **Muh SJ**, Moutzouros V, Makhni EC. Patients with Preoperative Clinical Depression Symptomology Experience Significant Improvements in Postoperative Pain, Function, and Depressive Symptoms Following Rotator Cuff Repair. *Arthroscopy*. 2021 May 27:S0749-8063(21)00506-5. doi: 10.1016/j.arthro.2021.05.020. Online ahead of print. PMID: 34052382
18. Cross AG, Tramer JS, Guo EW, **Muh SJ**, Makhni EC. Arthroscopic Repair of Humeral Avulsion of the Glenohumeral Ligament Lesion With Capsular Plication in the Lateral Decubitus Position. *Arthrosc Tech*. 2021 Feb 24;10(2):e569-e574. doi: 10.1016/j.eats.2020.10.042. eCollection 2021 Feb. PMID: 33680794
19. Klag EA, Kuhlmann NA, Tramer JS, Franovic S, **Muh SJ**. Dexamethasone decreases postoperative opioid and antiemetic use in shoulder arthroplasty patients: A prospective, randomized controlled trial. *J Shoulder Elbow Surg*. 2021 Jan 21:S1058-2746(21)00027-6. doi: 10.1016/j.jse.2020.12.005. Online ahead of print. PMID: 33486058 (2020 Neer Award Finalist)
20. Jiang Y, Chen C, Zhang X, Chen C, Zhou Y, Ni G, **Muh S**, Lemos S. Shoulder muscle activation pattern recognition based on sEMG and machine learning algorithms. *Comput Methods Programs Biomed*. 2020 Dec;197:105721. doi: 10.1016/j.cmpb.2020.105721. Epub 2020 Aug 25. PMID: 32882593
21. Tramer JS, Khalil LS, Fidai MS, Meldau J, Sheena GJ, **Muh SJ**, Moutzouros V, Makhni EC. Mental health and tobacco use are correlated with PROMIS upper extremity and pain

- interference scores in patients with shoulder pathology. *Musculoskelet Surg*. 2020 Jul 13;. doi: 10.1007/s12306-020-00674-8. PMID: 32661838.
22. Klag, E., Okoroha, KC., Kuhlmann, N., Sheena, G., Chen, R., **Muh**, S. Does the use of periarticular anesthetic cocktail provide adequate pain control following shoulder arthroplasty? *Shoulder & Elbow*. 2020 Apr 23;. doi.org: 10.1177/1758573220916916
23. Blanchett, J., Kuhlmann N., Fidai M., Borowsky, P., **Muh** S., Makhni, E. Using Patient Reported Outcome Measurement Information System Computer Adaptive Testing Domains to Investigate the Impact of Obesity on Physical Function, Pain Interference, and Mental Health in Sports Medicine Patients. *Journal of Obesity and Metabolic Syndrome* 2019 Dec;28(4):246-253. doi: 10.7570/jomes.2019.28.4.246. Epub 2019 Dec 30.
24. Ansok, C., Khalil, L., **Muh** S., Objective Assessment of Sleep Quality in Patients with Rotator Cuff Tears. *Orthopaedics & Traumatology: Surgery & Research* Dec 26. pii: S1877-0568(19)30388-3. doi: 10.1016/j.otsr.2019.09.033. PMID 30774456
25. Gullledge CM, Smith DG, Ziedas A, **Muh** SJ, Moutzouros V, Makhni EC.. Floor and Ceiling Effects, Time to Completion, and Question Burden of PROMIS CAT Domains Among Shoulder and Knee Patients Undergoing Nonoperative and Operative Treatment. *JB JS Open Access*. 2019 Dec 5;4(4):e0015.1-7. doi: 10.2106/JBJS.OA.19.00015. eCollection 2019 Oct-Dec. PMID: 32043052
26. Makhni EC., Gullledge C., Kuhlmann N., **Muh** S. Open Acromioclavicular Joint Reconstruction with Semitendinosus Allograft Utilizing the Cerclage System. *Arthrosc Tech*. 2020 Mar 13;9(4):e505-e511. doi: 10.1016/j.eats.2019.12.005. eCollection 2020 Apr. PMID: 32368471
27. Meldau JE, Borowsky P., Blanchett J., Stephens J., **Muh** S., Moutzouros V., Makhni EC. Impact of Patient Demographic Factors on Preoperative Patient-Reported Outcomes Measurement Information System (PROMIS) Physical Function, Pain Interference, and Depression Computer Adaptive Testing Scores in Patients Undergoing Shoulder and Elbow Surgery. *Orthop J Sports Med*. 2019 Nov 22;7(11):2325967119884543. doi: 10.1177/2325967119884543. eCollection 2019 Nov. PMID: 31803791
28. Blanchett J., Kuhlmann, N., Fidai, M., Borowsky, P., **Muh**, S., Makhni, EC. Using PROMIS CAT domains to investigate the impact of obesity on physical function, pain interference, and mental health in sports medicine patients. *Accepted: The Journal of Obesity and Metabolic Syndrome: October 8th, 2019. In Press*
29. Fisk, F., Franovic, S., Tramer, J., Gullledge, C., Kuhlmann, N., Chen, C., Moutzouros, V., **Muh**, S., Makhni, E. "PROMIS CAT forms demonstrate early responsiveness in patients undergoing rotator cuff repairs across multiple health domains."

- J Shoulder Elbow Surg.* 2019 Aug 13. pii: S1058-2746(19)30325-8. doi: 10.1016/j.jse.2019.04.055. [Epub ahead of print] PMID: 31420223
30. Makhni EC, Meldau JE, Blanchett J, Borowsky P, Stephens J, **Muh** S, Moutzouros V. Correlation of PROMIS Physical Function, Pain Interference, and Depression in Pediatric and Adolescent Patients in the Ambulatory Sports Medicine Clinic. *Orthop J Sports Med.* 2019 Jun 24;7(6):2325967119851100. doi: 10.1177/2325967119851100. eCollection 2019 Jun. PMID: 31263725
31. Lynch, J., Yu, C., Chen, C., **Muh**, S. Magnetic Resonance Imaging versus Ultrasound in Diagnosis of Distal Biceps Tendon Avulsion *Orthopaedics & Traumatology: Surgery & Research* doi.org/10.1016/j.otsr.2019.01.021 PMID: 30987955
32. Okoroha, K., **Muh**, S., Gabbard, M., Evans, T., Roche, C., Flurin, PH., Wright, T., Zuckerman, J. Early Outcomes of Shoulder Arthroplasty According to Sex *JSES Open Access.* 2019 Mar 16;3(1):43-47. doi: 10.1016/j.jses.2018.12.001. eCollection 2019 Mar. PMID: 30976735
33. Schumaier, A., Abboud J., Grawe B., Horneff, J., Getz, C., Williams, G., Ramsey M., Namdari, S., Romeo A., Nicholson, G., Keener, J., Richard Friedman, R., Yian, E., **Muh**, S., Delaney, R., Otto, R., Levine, W., Tokish, JT., Kazanjian, J., Dines, J., Green, A., Paxton, S., Flanagan, B., Hasan, S., Kaar, S., Miniaci, A., Cuomo, F. Evaluating Glenohumeral Osteoarthritis: The Relative Impact of Patient Age, Activity Level, Symptoms, and Kellgren-Lawrence Grade on Treatment. *Arch Bone Jt Surg.* 2019 Mar;7(2):151-160. PMID: 31211193
34. Lizzio VA, Blanchett J, Borowsky P, Meldau JE, Verma NN, **Muh** S, Moutzouros V, Makhni EC. Feasibility of PROMIS CAT Administration in the Ambulatory Sports Medicine Clinic With Respect to Cost and Patient Compliance: A Single-Surgeon Experience. *Orthop J Sports Med.* 2019 Jan 22;7(1):2325967118821875. doi: 10.1177/2325967118821875. eCollection 2019 Jan. PMID: 30733973 PMID: 30733973
35. Okoroha K, Patel R, Jildeh T, Sanchez N, Sweet M, Rill B, Kolowich P, **Muh** S. Pain After Anatomic Total Shoulder Arthroplasty Versus Reverse Total Shoulder Arthroplasty *Orthopaedics* 2019 Jan 30:1-6. doi: 10.3928/01477447-20190125-01 PMID: 30707239
36. Sweet, M., Sheena, M., Liu, S., Fisk, F., Lynch, J., **Muh**, S. Clinical characteristics and long-term outcomes after septic arthritis of the native glenohumeral joint: a 20-year retrospective review *Orthopaedics* 2019 Jan 1;42(1):e118-e123. doi: 10.3928/01477447-20181227-01. PMID: 30602050

37. Patel, R., **Muh**, S., Okoroha, K., Wright, T., Flurin, PH., Roche, C., Zuckerman, J. Results of Total Shoulder Arthroplasty in Patients Under vs. Over Fifty-Five Years of Age: An Analysis of 1,135 Patients with over 2 Years of Follow-up
J Shoulder Elbow Surg. 2018 Dec 24. pii: S1058-2746(18)30719-5. doi: 10.1016/j.jse.2018.09.029. (published) PMID: 30591214
38. Kadri O, Jildeh TR, Meldau JE, Blanchett J, Borowsky P, **Muh** S, Moutzouros V, Makhni EC. How Long Does It Take for Patients to Complete PROMIS Scores?: An Assessment of PROMIS CAT Questionnaires Administered at an Ambulatory Sports Medicine Clinic
Orthop J Sports Med. 2018 Aug 14;6(8):2325967118791180. doi: 10.1177/2325967118791180. eCollection 2018 Aug (published) PMID: 30140710
39. Jildeh, T., Okoroha, K., Marshall, N., Amato, C., Trafton, H., **Muh**, S., Kolowich, P. The Effect of Intraoperative Hypothermia on Shoulder Arthroplasty
Orthopaedics 2018 May 16;1-6/doi: 10.3928/01477447-20180511-02 PMID: 29771394
40. Ansok C., **Muh** S. Optimal Management of Glenohumeral Osteoarthritis
Orthop Res Rev. 2018 Feb 23;10:9-18. doi: 10.2147/ORR.S134732. eCollection 2018. Review PMID: 30774456
41. Buraimoh A., Okoroha K., Oravec D., Peltz C., Yener Y., **Muh** S. A Biomechanical Comparison of Subscapularis Repair Techniques in Total Shoulder Arthroplasty: Lesser Tuberosity Osteotomy versus Subscapularis Peel
Open Access Journal of Shoulder and Elbow Surgery doi.org/10.1016/j.jses.2017.11.008 PMID: 30675560
42. Marshall N., Keller R., Okoroha K., Guest J., Yu C., **Muh** S., Moutzouros V. Radiostereometric Evaluation of Tendon Elongation After Distal Biceps Repair
Open Access Journal for Orthopaedic Sports Medicine, Arthroscopy and Knee Arthroplasty 2016; 4(11): 1-6. PMID: 27928546
43. Okoroha K., Keller R., Lynch J., Korona J., Rill B., Kolowich P., **Muh** S. Liposomal Bupivacaine Versus Interscalene Nerve Block in Managing Pain After Shoulder Arthroplasty
Journal of Shoulder and Elbow Surgery: 2016; 25(11): 1742-1748 PMID: 27422692
44. Fortun, C., Streit JJ., Horton S., **Muh** S., Gillespie R., Gobezie R. Scapular Neck length and implications for reverse total shoulder arthroplasty: An anatomic study of 442 cadaveric specimens.
International Journal of Shoulder Surgery 2015; 9(2): 38-42 PMID: 25937712
45. Dubrow S., Streit JJ., **Muh** S., Shishani Y., Gobezie R. Acromial Stress fractures: Correlation with acromioclavicular osteoarthritis and acromiohumeral distance.
Orthopaedics 2014 Dec 1; 37(12): e1074-9 PMID: 25437081

46. **Muh S.**, Streit J., Shishani Y., Dubrow S., Nowinski RJ., Gobezie R. Biologic Resurfacing of the glenoid with humeral head resurfacing for Glenohumeral Joint Arthritis in the Young Patient.
Journal of Shoulder and Elbow Surgery 2014 Aug; 23(8): e185-90 PMID: 24439248
47. **Muh S.**, Streit J., Wanner JP., Lenarz C., Shishani Y., Rowland DY., Riley C., Nowinski RJ., Edwards TB., Gobezie R. Early follow-up of reverse total shoulder arthroplasty in patients sixty years of age or younger.
Journal of Bone and Joint Surgery 2013 Oct 16;95(20): 1877-83 PMID: 24132362
48. Georgiadis AG, **Muh SJ**, Silverton CD, Weir RM, Laker MW. A prospective double-blind placebo controlled trial of topical tranexamic acid in total knee arthroplasty.
Journal of Arthroplasty. 2013 Sep;28(8 Suppl):78-82 PMID: 23906869
49. **Muh S.**, Streit J., Lenarz C., McCrum C., Wanner JP., Shishani Y., Moragia C., Nowinski RJ., Edwards TB., Warner JP., Walch G., Gobezie R. Resection Arthroplasty for Failed Shoulder Arthroplasty
Journal of Shoulder and Elbow Surgery 2013, 22(2): 247 – 252. PMID: 22938790
50. **Muh S.**, Shishani Y., Streit J., Lucas C., Sahgal V., Kraay M., Gobezie R. The Impact of Joint Replacement on Driver Function and Safety.
Open Journal of Orthopaedics 2012, 2(3): 121 – 125.
51. Szerlip B., **Muh S.**, Streit J., Gobezie R. Glenoid Exposure: Tricks of the Trade.
Seminars in Arthroplasty 2012, 23(2): 95 – 98.
52. Szerlip B., **Muh S.**, Streit J., Gobezie R. Humeral Fixation in Shoulder Arthroplasty: Does Stem Geometry Matter?
Seminars in Arthroplasty 2012, 23(2): 103 – 105.
53. Bey M., Peltz C., Ciarelli K., Kline S., Divine G., van Holsbeeck M., **Muh S.**, Kolowich P, Lock T., Moutzouros V. In-Vivo Shoulder Function after Surgical Repair of a Torn Rotator Cuff: Glenohumeral Joint Mechanics, Shoulder Strength, Clinical Outcomes, and their interactions.
The American Journal of Sports Medicine 2011, 39 (10): 2117 – 29. PMID: 21737834

BOOK CHAPTERS

1. Jildeh T., **Muh S.**, Chapter 29 Reverse Total Shoulder Arthroplasty for Acute Fracture. *Shoulder Arthroplasty Principles and Practice*. 2021 ISBN-10: 1975157664
2. Desgrange R., **Muh S.** Chapter 18 Role of physician extenders and midlevel providers in orthopedic care. *Resident Orthopaedic Core Knowledge* 2022

3. Pietroski, A., **Muh**, S. Chapter 24 – Cultural Competence Resident Orthopaedic Core Knowledge 2022
4. Shah S., **Muh** S. Chapter 20 – Shoulder Stiffness: Post-Operative. Resident Orthopaedic Core Knowledge 2022
5. **Muh** S., Gobezie R. Chapter 32. Complications of Reverse Shoulder Arthroplasty Orthopaedic Knowledge Update: Shoulder and Elbow 5. 2020
6. **Muh** S., Gobezie R. Chapter 32. Complications of Reverse Shoulder Arthroplasty Orthopaedic Knowledge Update: Shoulder and Elbow 4.

PRESENTATIONS

National or International

1. Kuhlmann NA., Franovic S., Burdick G., Hanson D., Dash M., Ayoola A., **Muh** S. Shoulder Arthroplasty Outcomes in Patients with Major Depressive Disorder or Generalized Anxiety Disorder
American Academy of Orthopaedic Surgeons Annual Meeting – March 2022 – Chicago, IL
2. Franovic S., Pietroski A., Druskovich K., Page B., Burdick G., Fathima B., McIntosh M., King E., **Muh** S. Investigating the Cost-Effectiveness of Operative Versus Nonoperative Treatment for Distal Radius Fractures
American Academy of Orthopaedic Surgeons Annual Meeting – March 2022 – Chicago, IL
3. Warren J, Pietroski A., Franovic S, Fathima B., Burdick G., Ziedas A., Yedulla N., Makhni EC., **Muh** S. Characterizing Minimally Clinically Important Difference and Assessing the Role of Preoperative PROMIS Scores in Predicting Outcomes for Reverse Total Shoulder Arthroplasty at 2-Year Follow Up
American Academy of Orthopaedic Surgeons Annual Meeting – March 2022 – Chicago, IL
4. Klag EA, Kuhlmann NA, Tramer JS, Franovic S, **Muh** SJ. Dexamethasone decreases postoperative opioid and antiemetic use in shoulder arthroplasty patients: a prospective, randomized controlled trial
American Academy of Orthopaedic Surgeons Annual Meeting – Oct 2021 – San Diego, Ca
5. Kuhlmann, N., Taylor, K., Franovic, S., Zuckerman, J., Roche, C., Schoch, B., Wright, T., Flurin, PH., Carofino, B., **Muh**, S. Acute Reverse Total Shoulder Arthroplasty Treatment for Proximal Humerus Fracture Displays Equal Outcomes to Delayed Treatment.
The American Shoulder and Elbow Society Annual Meeting. October 2019 – New York, NY (Neer Award nominee)

6. Taylor, K., Kuhlmann, N., Sheena, G., **Muh**, S. External Beam Radiation Therapy and its Impact on Surgical Outcomes in Patients Undergoing Shoulder Procedures: A Retrospective Study
International Congress of Shoulder and Elbow Surgery (ICSES) Meeting. September 2019 – Buenos Aires, Argentina
7. Fidai, M., Marshall NE, Guest JM, Okoroha KR, **Muh** S, Makhni EC, Keller RA, Moutzouros V. Strength Changes Associated with Elongation in Distal Biceps Tendon Repair.
American Academy of Orthopaedic Surgeons Annual Meeting – March 2018 – New Orleans, La
8. Ansok C., **Muh** S. Objective Assessment of Sleep Quality Does Not Correlate with Subjective Measures in Patients with Rotator Cuff Tears
The American Shoulder and Elbow Society Annual Meeting – October 2017 – New Orleans, La
9. Strength Changes Associated with Elongation in Distal Biceps Tendon Repair
Moutzouros VM, Marshall NE, Guest JM, Okoroha KC, **Muh** S, Makhni E, Keller R
The American Orthopaedic Society for Sports Medicine. July 2017 – Toronto, CA
10. Okohora K., Keller R., Lynch J., Korona J., Rill B., Kolowich P., **Muh** S. Liposomal Bupivacaine Versus Interscalene Nerve Block in Managing Pain After Shoulder Arthroplasty
American Academy of Orthopaedic Surgeons Annual Meetings (ASES Specialty Day) – March 2017 – San Diego, CA (Finalist for Resident research award)
11. Okohora K., Keller R., Lynch J., Korona J., Rill B., Kolowich P., **Muh** S. Liposomal Bupivacaine Versus Interscalene Nerve Block in Managing Pain After Shoulder Arthroplasty
American Orthopaedic Association Annual Meeting. June 2016 – Seattle, WA
12. Marshall N., Keller R., Guest J., **Muh** S., Moutzouros V. Radiostereometric Evaluation of Tendon Elongation after Distal Biceps Repair
International Congress of Shoulder and Elbow Surgery (ICSES) Meeting. May 2016 – Jeju, Korea
13. Okohora K., Keller R., Lynch J., Korona J., Rill B., Kolowich P., **Muh** S. Liposomal Bupivacaine Versus Interscalene Nerve Block in Managing Pain After Shoulder Arthroplasty
American Academy of Orthopaedic Surgeons Annual Meeting. March 2016 – Orlando, FL
14. Marshall N., Keller R., Guest J., **Muh** S., Moutzouros V. Radiostereometric Evaluation of Tendon Elongation after Distal Biceps Repair

American Academy of Orthopaedic Surgeons Annual Meeting. March 2016 – Orlando, FL

15. Dubrow S., Streit J., Shishani Y., **Muh S.**, Rodgers M., Gobezie R. Histopathologic Analysis of the Extra-Articular Portion of the Long Head of the Biceps Tendon and Tenosynovium
American Academy of Orthopaedic Surgeons Annual Meeting. March 2014 – New Orleans, LA
16. **Muh S.**, Aandal G., Gillespie R., Robbin M., Gobezie R. Diagnostic accuracy in detecting and classifying pathology in the proximal biceps tendon in standard non-enhanced shoulder MRI Basic Science of Tendon Healing and Regeneration.
International Congress of Shoulder and Elbow Surgery (ICSES) Meeting. April 2013 - Nagoya, Japan.
17. **Muh S.**, Szerlip B., Wanner JP., Streit J., Nowinski RJ., Gobezie R. Biologic Resurfacing of the Glenoid with Humeral Head Resurfacing for Glenohumeral Arthritis in the Young Patient.
American Academy of Orthopaedic Surgeons Annual Meeting. March 2013 – Chicago, IL
18. Georgiadis AG, **Muh SJ**, Weir RM, Silverton CD, Laker MW: Topical Tranexamic Acid in Total Knee Arthroplasty.
American Academy of Orthopaedic Surgeons Annual Meeting. March 2013 - Chicago, IL
19. Georgiadis AG, **Muh SJ**, Weir RM, Silverton CD, Laker, MW: Topical Tranexamic Acid in Total Knee Arthroplasty: A Randomized, Double-Blind, Placebo Controlled Trial.
American Academy of Hip and Knee Surgeons Annual Meeting. November 2012 - Dallas, TX
20. Georgiadis AG, **Muh SJ**, Weir RM, Silverton CD, Laker, MW: Topical Tranexamic Acid in Total Knee Arthroplasty: A Randomized, Double-Blind, Placebo Controlled Trial.
Australian Orthopaedic Association Annual Scientific Meeting. October 2012 - Sydney, Australia
21. **Muh S.**, Streit J., Wanner JP., Gobezie R. All-Arthroscopic Outpatient Biological Total Shoulder Resurfacing with Fresh Osteochondral Allograft: Technique and Early Results.
Société Européenne pour la Chirurgie de l'Épaule et du Coude (SECEC) Annual Meeting. September 2013 – Dubrovnik, Croatia

22. **Muh S.**, Szerlip B., Wanner JP., Nowinski R., Gobezie R. Biologic Resurfacing of the Glenoid with Humeral Head Resurfacing for Glenohumeral Arthritis in the Young Patient.
American Academy of Orthopaedic Surgeons Annual Meeting. March 2012 – Chicago, IL
23. Larkin B., **Muh S.**, Sundberg S. The value of a screening hip ultrasound in children presenting with idiopathic clubfoot.
Mid-America Orthopaedic Association. April 2011 – Tuscon, AZ

Regional or Local

1. Tramer, J., Sheena, G., Kuhlmann, N., Muh, S. The impact of arthroscopic rotator cuff repair on golfing performance.
Michigan Orthopaedic Association Annual Meeting. Traverse City, MI – June 2019
2. Klag E., Taylor, K., Kuhlmann, N., Muh, S. Does intravenous dexamethasone improve pain control and reduce the incidence of post-operative nausea and vomiting after shoulder arthroplasty?
Michigan Orthopaedic Association Annual Meeting. Traverse City, MI – June 2019
3. Klag E., Taylor, K., Kuhlmann, N., **Muh**, S. Does intravenous dexamethasone improve pain control and reduce the incidence of post-operative nausea and vomiting after shoulder arthroplasty?
Mid-America Orthopaedic Association Annual Meeting. Miramar, FL - April 2019
4. Fisk, F., Sweet, M., Sheena, G., Liu, S., Lynch, J., **Muh**, S. Clinical characteristics and long-term outcomes after septic arthritis of the native glenohumeral joint: a 20-year retrospective review
Mid-America Orthopaedic Association Annual Meeting. Miramar, FL – April 2019
5. Klag E., Sheena G., Muh S. Does the use of a peri-articular anesthetic cocktail provide adequate pain control following shoulder arthroplasty?
Michigan Orthopaedic Association Annual Meeting – June 2018
6. Okorooha, KC., **Muh S.**, Roche, C., Wright T., Flurin, PH., Zuckerman, J. Early Outcomes of Anatomic Total Shoulder Arthroplasty According to Sex
Michigan Orthopaedic Association Annual Meeting – June 2018
7. **Muh SJ**, Sweet MC, Sheena GJ, Liu S, Lynch J. The Success of Shoulder Arthroplasty as Treatment for Symptomatic Post-Infectious Shoulder Arthritis: A 20-year Retrospective Review.
Michigan Orthopaedic Association Annual Meeting – June 2018

8. Patel R, Okorooha KR, **Muh S**, Roche C, Flurin P, Wright T, Zuckerman J. Results of Total Shoulder Arthroplasty in Patients Under vs. Over Fifty-Five Years of Age: An Analysis of 1,135 Patients with over 2 Years of Follow-up
Michigan Orthopaedic Association Annual Meeting – June 2018
9. Ansok, C., Muh S., Ansok, C., Muh, S. Objective Assessment of Sleep Quality Does Not Correlate with Subjective Measures in Patients with Rotator Cuff Tears
Mid-America Orthopaedic Association Annual Meeting – April 2018
10. Jildeh, T., Okorooha KC., Marshall, N., Amato, C., Trafton, H., Muh, S., Kolowich, P. Effect of Intraoperative Hypothermia on Shoulder Arthroplasty
Mid-America Orthopaedic Association Annual Meeting – April 2018
11. Ansok, C., Muh, S., Title: Objective Assessment of Sleep Quality Does Not Correlate with Subjective Measures in Patients with Rotator Cuff Tears
Michigan Orthopaedic Society Annual Meeting – May 2017
12. Jildeh, T., Okorooha KC., Marshall, N., Amato, C., Trafton, H., Muh, S., Kolowich, P. Effect of Intraoperative Hypothermia on Shoulder Arthroplasty
Michigan Orthopaedic Society Annual Meeting – May 2017
13. Okorooha, KC., Muh S., Roche, C., Wright T., Flurin, PH., Zuckerman, J. Early Outcomes of Anatomic Total Shoulder Arthroplasty According to Sex
Mid-America Orthopaedic Association Annual Meeting – April 2017
14. Ansok, C., Okorooha KC., Muh S. Pain Assessment After Shoulder Arthroplasty: Anatomic Total Shoulder Arthroplasty vs. Reverse Total Shoulder Arthroplasty
Mid-America Orthopaedic Association Annual Meeting – April 2017
15. Lynch, J., Buraimoh M., Orevac D., Peltz C., Yeni, Y., **Muh S**. A Biomechanical Comparison of the Subscapularis Peel and Lesser Tuberosity Osteotomy Techniques in Human Cadaveric Models
Mid-America Orthopaedic Association Annual Meeting – April 2017
16. Marshall N., Keller R., Guest J., **Muh S.**, Moutzouros V. Radiostereometric Evaluation of Tendon Elongation after Distal Biceps Repair
Mid-America Orthopaedic Association Annual Meeting – April 2016
17. Buraimoh M., Orevac D., Peltz C., Yeni, Y., **Muh S**. A Biomechanical Comparison of the Subscapularis Peel and Lesser Tuberosity Osteotomy Techniques in Human Cadaveric Models
Michigan Orthopaedic Society Annual Meeting – May 2015

18. **Muh S.**, Brock S., Deneweth J., Bey M. Dynamic In-Vivo Glenohumeral Joint Mechanics of the Normal, Healthy Shoulder: Dominant versus Non-Dominant Shoulders.
Mid-America Orthopaedic Association Annual Meeting. April 2010 – Austin, TX

ABSTRACTS

1. Lau, E., Pietroski, A., Franovic, S., Zhou, Y., Kuhlmann, N., Chen, C., **Muh, S.** Electromyography Reveals Middle Deltoid as the Functionally Dominant Shoulder Muscle After Reverse Total Shoulder Arthroplasty
American Academy of Orthopaedic Surgeons Annual Meeting. Sept 2021 – San Diego, CA
2. Meldau, J., Srivastava, K., Okoroha, KC., Ahmad, C., Moutzouros V., **Muh, S.**, Makhni, E. Cost Anaysis of Tommy John Surgery for Major League Baseball Teams
The American Shoulder and Elbow Society Annual (ASES) Meeting. October 2019 – New York, NY
3. Lizzio, V., Smith DG., Jildeh T., Gulledge C., Swantek, A., Stephens, J., **Muh, S.**, Schulz, B., Makhni, E. Importance of radar gun inclusion during return-to-throwing rehabilitation following Ulnar Collateral Ligament Reconstruction in baseball pitchers: a simulation study
The American Shoulder and Elbow Society Annual (ASES) Meeting. October 2019 – New York, NY
4. Klag, E., Kuhlmann, N., **Muh, S.** Does intravenous dexamethasone improve pain control and reduce the incidence of post-operative nausea and vomiting after shoulder arthroplasty?
International Congress of Shoulder and Elbow Surgery (ICSES) Meeting. September 2019 – Buenos Aires, Argentina
5. Fisk, F., **Muh, S.**, Jildeh, T., Okoroha, KC., Sheena, G., Blanchett, J., Borowsky, P., Meldau, J., Kuhlmann, N., Moutzouros, V., Makhni, E., PROMIS CAT Forms Demonstrate Early Responsiveness in Patients Undergoing Rotator Cuff Repair across Multiple Health Domains
International Congress of Shoulder and Elbow Surgery (ICSES) Meeting. September 2019 – Buenos Aires, Argentina
6. Tramer, J., Okoroha, K., Kuhlmann N., **Muh, S.** The impact of arthroscopic rotator cuff repair on golfing performance.
International Congress of Shoulder and Elbow Surgery (ICSES) Meeting. September 2019 – Buenos Aires, Argentina

7. Klag E., Okoroha, K., Sheena G., **Muh S.** Does the use of a peri-articular anesthetic cocktail provide adequate pain control following shoulder arthroplasty?
American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas March 2019
8. **Muh SJ**, Sweet MC, Sheena GJ, Liu S, Lynch J. The Success of Shoulder Arthroplasty as Treatment for Symptomatic Post-Infectious Shoulder Arthritis: A 20-year Retrospective Review.
European Society for Surgery of the Shoulder and the Elbow (SECEC-ESSE). September 2018
9. **Muh, S.**, Kadri, O., Jildeh, T., Meldau, J., Blanchett, J., Borowsky, P., Moutzouros, V., Makhni E. How Long Does It Take Patients To Complete PROMIS Scores In The Ambulatory Clinic? An Assessment Of PROMIS CAT Questionnaires Administered In The Ambulatory Sports Medicine Clinic
European Society for Surgery of the Shoulder and the Elbow (SECEC-ESSE). September 2018
10. Ansok C., **Muh, S.** Objective Assessment Of Sleep Quality In Patients With Rotator Cuff Tears
European Society for Surgery of the Shoulder and the Elbow (SECEC-ESSE). September 2018
11. Patel R, Okoroha KR, **Muh S**, Roche C, Flurin P, Wright T, Zuckerman J. Results of Total Shoulder Arthroplasty in Patients Under vs. Over Fifty-Five Years of Age: An Analysis of 1,135 Patients with over 2 Years of Follow-up
Annual Meeting of The American Orthopaedic Association June 2018
12. Patel R, Okoroha KR, **Muh S**, Roche C, Flurin P, Wright T, Zuckerman J. Results of Total Shoulder Arthroplasty in Patients Under vs. Over Fifty-Five Years of Age: An Analysis of 1,135 Patients with over 2 Years of Follow-up
American Academy of Orthopaedic Surgeons Annual Meeting – March 2018
13. **Muh, S.**, Lynch J., MRI vs. Ultrasound for the Diagnosis of Distal Biceps Tendon Tears
Société Européenne pour la Chirurgie de l'Epaule et du Coude (SECEC) – September 2017
14. **Muh, S.**, Okoroha, KC., Roche, C., Wright T., Flurin, PH., Zuckerman, J. Early Outcomes of Anatomic Total Shoulder Arthroplasty According to Sex
Société Européenne pour la Chirurgie de l'Epaule et du Coude (SECEC) – September 2017
15. **Muh S.**, KC., Roche, C., Wright T., Flurin, PH., Zuckerman, J. Early Outcomes of Reverse Total Shoulder Arthroplasty According to Sex
Société Européenne pour la Chirurgie de l'Epaule et du Coude (SECEC) – September 2017

16. Okoroha K., **Muh S.**, Patel R., Roche C., Flurin PH., Wright T., Zuckerman J. Early Follow-Up of Total Shoulder Arthroplasty in Patients Under Sixty Five Years of Age versus Older than Seventy-Five
American Academy of Orthopaedic Surgeons Annual Meeting. March 2017
17. Okoroha K., Keller R., Lynch J., Korona J., Rill B., Kolowich P., **Muh S.** Liposomal Bupivacaine Versus Interscalene Nerve Block in Managing Pain After Shoulder Arthroplasty
129th Annual Meeting of The American Orthopaedic Association. June 2016
18. Marshall N., Keller R., Guest J., **Muh S.**, Moutzouros V. Radiostereometric Evaluation of Tendon Elongation after Distal Biceps Repair
American Academy of Orthopaedic Surgeons Annual Meeting. March 2016
19. **Muh S.**, Streit J., Wanner JP., Gobezie R. All-Arthroscopic Outpatient Biological Total Shoulder ReSurfacing with Fresh Osteochondral Allograft: Technique and Early Results.
International Congress of Shoulder and Elbow Surgery (ICSES) Meeting. April 2013
20. **Muh S.**, Wanner JP., Horton S., Rowland D., Shishani Y., Gobezie R. Clinical Outcomes of Sub-Pectoral Biceps Tenodesis with Cortical Button Fixation.
International Congress of Shoulder and Elbow Surgery (ICSES) Meeting. April 2013
21. Streit, J., **Muh S.**, Wanner JP., Gillespie R., Gobezie R. A prospective randomized study of medialized versus lateralized center of rotation reverse shoulder arthroplasty: A clinical and radiographic analysis.
International Congress of Shoulder and Elbow Surgery (ICSES) Meeting. April 2013
22. Fortun C., Streit J., Horton S., **Muh S.**, Gillespie R., Gobezie R. Scapular Neck Length and Implications for Reverse Shoulder Arthroplasty: An Anatomic Study of 442 Cadaveric Specimens.
International Congress of Shoulder and Elbow Surgery (ICSES) Meeting. April 2013
23. Solomon J., **Muh S.**, Wanner JP., Wilber J., Victoroff B., Gobezie R., Gillespie R. Cost Analysis of Hemiarthroplasty versus Reverse Shoulder Arthroplasty for Fractures in the Elderly.
American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting – March 2013
24. **Muh S.**, Aandal G., Gillespie R., Robbin M., Gobezie R. Diagnostic accuracy in detecting and classifying pathology in the proximal biceps tendon in standard non-enhanced shoulder MRI Basic Science of Tendon Healing and Regeneration.
Closed American Shoulder and Elbow Society Annual Meeting – October 2012
25. Streit J., **Muh S.**, Wanner JP., Gillespie R., Gobezie R. Medialized versus lateralized center of rotation in reverse shoulder arthroplasty
Closed American Shoulder and Elbow Society Annual Meeting – October 2012

26. Wanner JP., **Muh S.**, Horton S., Gillespie R., Gobezie R. Clinical Outcomes of Open Subpectoral Biceps Tenodesis
Closed American Shoulder and Elbow Society Annual Meeting – October 2012
27. **Muh S.**, Wanner JP., Gillespie R., Gobezie R. The Incidence of Acromial Stress fractures In Reverse Total Shoulder Arthroplasty.
Société Européenne pour la Chirurgie de l'Epaule et du Coude (SECEC) – September 2012
28. **Muh S.**, Szerlip B., Wanner JP., Nowinski R., Gobezie R. Biologic Resurfacing of the Glenoid with Humeral Head Resurfacing for Glenohumeral Arthritis in the Young Patient.
Société Européenne pour la Chirurgie de l'Epaule et du Coude (SECEC) – September 2012
29. **Muh S.**, Aandal G., Gillespie R., Robbin M., Gobezie R. Diagnostic accuracy in detecting and classifying pathology in the proximal biceps tendon in standard non-enhanced shoulder MRI Basic Science of Tendon Healing and Regeneration.
Société Européenne pour la Chirurgie de l'Epaule et du Coude (SECEC) – September 2012
30. **Muh S.**, Wanner JP., Horton S., Gobezie R. Clinical outcomes of Biceps Tenodesis.
Société Européenne pour la Chirurgie de l'Epaule et du Coude (SECEC) – September 2012
31. Georgiadis AG, **Muh S.**, Weir R, Silverton, CD, Laker, MW: Topical Tranexamic Acid in Total Knee Arthroplasty: A Randomized, Double-Blind, Placebo Controlled Trial.
Michigan Orthopaedic Society Annual Scientific Meeting, June 2012
32. **Muh S.**, Streit J., Wanner JP., Gobezie R. All-Arthroscopic Outpatient Biological Total Shoulder ReSurfacing with Fresh Osteochondral Allograft: Technique and Early Results.
Arthroscopy Association of North America (AANA) – May 2012
33. **Muh S.**, Streit J., Wanner JP., Shishani Y., Lucas C., Rodgers M., Gobezie R. Histologic Analysis of Biceps Tenosynovitis: Is it Similar to De Quervain's Tenosynovitis?
Arthroscopy Association of North America (AANA) – May 2012
34. **Muh S.**, Shishani Y., Sahgal V., Kraay M., Gobezie R. When are patients driving after Total Shoulder Arthroplasty, and how do they feel about it?
Société Européenne pour la Chirurgie de l'Epaule et du Coude (SECEC) – September 2011
35. Robbin M., Volgelis E., Shishani Y., **Muh S.**, Robezie R. Can MRI Provide Biological Information To Assist in the Diagnosis of SLAP Tears? An Analysis of MRI with IV Gadolinium Confirmed by Arthroscopy.

Société Européenne pour la Chirurgie de l'Epaule et du Coude (SECEC) – September 2011

36. Streit J., Wanner JP., Lenarz C., Shishani Y., **Muh S.**, Lucas C., Edwards T., Gobezie R. Reverse Total Shoulder Arthroplasty In Patients Under Sixty Years of Age: Who Are They, and How Do They Fare?
Société Européenne pour la Chirurgie de l'Epaule et du Coude (SECEC) – September 2011

37. Lenarz C., Streit J., Shishani Y., Bragdon C., **Muh S.**, Malchau H., Gobezie R. In-Vivo Glenoid Polyethylene Wear Rates in Total Shoulder Arthroplasty: A Radiostereometric Analysis.
Société Européenne pour la Chirurgie de l'Epaule et du Coude (SECEC) – September 2011

38. Streit J., Wanner JP., Lenarz C., **Muh S.**, Shishani Y., Lucas C., Rodgers M., Murthy P., Gobezie R. Histologic analysis of biceps tenosynovitis: Is it similar to De Quervain's tenosynovitis?
Société Européenne pour la Chirurgie de l'Epaule et du Coude (SECEC) – September 2011

39. **Muh S.**, Brock S., Deneweth J., Bey M. Dynamic In-Vivo Glenohumeral Joint Mechanics of the Normal, Healthy Shoulder: Dominant versus Non-Dominant Shoulders.
Michigan Orthopaedic Society Annual Meeting – June 2010

40. **Muh S.**, Brock S., Deneweth J., Bey M. Dynamic In-Vivo Glenohumeral Joint Mechanics of the Normal, Healthy Shoulder: Dominant versus Non-Dominant Shoulders.
Orthopaedic Research Society – February 2010

OTHER INTERESTS

1. South Oakland Shelter Volunteer – 2014, 2015
2. United Methodist Church Rummage sale – 2016, 2017
3. Rugby – 2006 Team Physician USA Hawks – North American 4; Columbus, Ohio