

Nolan Stuart Horner, MD, BSc

Board-Certified Orthopedic Surgeon | Sports, Shoulder & Trauma Surgery

Genesis Orthopedics and Sports Medicine | 2900 Foxfield Rd., Suite 102, St. Charles, IL 60174
312-774-9173 | nolan.horner@medportal.ca

Professional Experience

2022–Present Orthopedic Surgeon — Sports, Shoulder and Trauma Surgery
Genesis Orthopedics and Sports Medicine | Chicago, IL

Education & Postgraduate Training

2021–2022 Sports and Shoulder Surgery Fellowship
Rush University Medical Center | Chicago, IL

2016–2021 Orthopedic Surgery Residency
McMaster University | Hamilton, ON

2013–2016 Doctor of Medicine
Michael G. DeGroote School of Medicine, McMaster University | Hamilton, ON

2009–2013 Bachelor of Science, Chemistry (Honours), with Distinction
Queen's University | Kingston, ON | GPA: 3.93/4.00

Board Certification & Licensure

September 2024 Board Certification — American Board of Orthopaedic Surgery (ABOS)

July 2022 ABOS Part I examination

November 2021 Unrestricted Indiana state medical license

January 2021 Unrestricted Illinois state medical license

2021 Fellow of the Royal College of Surgeons of Canada

Research Publications

Published journal articles

1. Lee M, Zakhari V, Shanmugaraj A, Sivasundaram L, **Horner NS**. Machine learning for predicting outcomes, complications and resource utilisation after hip arthroscopy: A systematic review. *Knee Surg Sports Traumatol Arthrosc.* 2026;34(3):1046-1060. doi:10.1002/ksa.70304.
2. Abdel Khalik H, Shanmugaraj A, Ekhtiari S, **Horner NS**, Gazendam A, Simunovic N, Ayeni OR, NO PAin Investigators. Self-defined former smokers consume the highest opioid quantities following knee and shoulder arthroscopy. *Knee Surg Sports Traumatol Arthrosc.* 2025;33(3):856-864. doi:10.1002/ksa.12403.
3. Chapman R, **Horner N**, Ziauddin L, Hevesi M, Nho SJ. Patients Undergoing Revision Hip Arthroscopy Demonstrate Comparable Survivability and Improvement but Worse Postoperative Outcomes Compared to Patients Undergoing Primary Hip Arthroscopy: A Propensity Matched Study at Five-Year Follow-Up. *Arthroscopy.* 2024;40(3):802-809. doi:10.1016/j.arthro.2023.07.047.
4. Domerchie E, **Horner NS**, Mauti E, Sedrak P, Sheehan B, Ayeni OR, Farrokyhar F, Denkers M, de Sa DL, Peterson D. Health-related quality of life does not deteriorate while waiting for anterior cruciate reconstruction. *Knee Surg Sports Traumatol Arthrosc.* 2024;32(11):2798-2805. doi:10.1002/ksa.12276.

5. Fenn TW, **Horner NS**, Ingawa HS, Hevesi M, Beals C, Nho SJ. High-Level Competitive Athletes Who Undergo Hip Arthroscopy Demonstrate Durable 5-Year Outcomes and Lower Subjective Pain: A Propensity-Matched Analysis. *Sports Health*. 2024;16(4):606-615. doi:10.1177/19417381231183658.
6. Wagner KR, **Horner NS**, Gilat R, Kaiser JT, Meeker ZD, Swindell HW, Cotter EJ, Yanke AB, Cole BJ. Revision and Primary Meniscal Allograft Transplantations Provide Clinical Benefit at Mid-Term Follow-Up: A Matched-Cohort Analysis of Patient-Reported Outcomes, Reoperations, and Failures. *Arthroscopy*. 2024;40(2):412-421.e1. doi:10.1016/j.arthro.2023.06.047.
7. **Horner NS**, Rice MW, Sivasundaram L, Alter T, Ephron CG, Nho SJ. Staged Bilateral Hip Arthroscopy for Femoroacetabular Impingement Syndrome: Index Surgery Patient Reported Outcome Measures Predict Contralateral Surgery Results at 2 Years. *Arthroscopy*. 2023;39(5):1175-1182.e1. doi:10.1016/j.arthro.2022.10.048.
8. Nucci N, Degen R, Ekhtiari S, Gazendam A, Ayeni OR, **Horner N**, Wong I, Woodmass J, Grant J, Sheehan B, Pickell M, Kopka M, Khan M, Martin R, Tucker A, Sommerfeldt M, Gusnowski E, Rousseau-Saine A, Lebel ME, Karpyschyn J, Matache B, Carroll M, Da Cunha R, Kwapisz A, Martin RK. Arthroscopy Association of Canada Position Statement on Opioid Prescription After Arthroscopic Surgery. *Orthop J Sports Med*. 2023;11(12):23259671231214700. doi:10.1177/23259671231214700.
9. Credille KT, Wang ZRC, **Horner NS**, Regan DP, Gadomski BC, Easley JT, Garrigues GE, Yanke AB. Biphasic Interpositional Allograft for Rotator Cuff Repair Augmentation Is Safe in an Ovine Model. *Arthroscopy*. 2023;39(9):1983-1997. doi:10.1016/j.arthro.2023.03.018.
10. **Horner NS**, Chapman RS, Larson JH, Nho SJ. Results of Endoscopic Labral Repair With Concomitant Gluteus Medius and/or Minimus Repair Compared With Outcomes of Labral Repair Alone: A Matched Comparative Cohort Analysis at Minimum 2-Year Follow-up. *Am J Sports Med*. 2023;51(7):1818-1825. doi:10.1177/03635465231166708.
11. **Horner N**, Chapman RS, Larson J, Hevesi M, Nho SJ. Workers' Compensation Patients Undergoing Hip Arthroscopy for Femoroacetabular Impingement Syndrome Experience Worse Mid-Term Outcomes but Similar Return-to-Work: A Propensity-Matched Analysis at 5-Year Follow-Up. *Arthroscopy*. 2023;39(11):2293-2299.e1. doi:10.1016/j.arthro.2023.03.023.
12. **Horner NS**, Fenn TW, Ephron C, Nho SJ. Patellar Tendon Rupture with Transosseous Tunnel Repair. *Video J Sports Med*. 2023;3(2):26350254221150450. doi:10.1177/26350254221150450.
13. McCormick JR, Kruchten MC, Mehta N, Damodar D, **Horner NS**, Carey KD, Nicholson GP, Verma NN, Garrigues GE. Internet search analytics for shoulder arthroplasty: what questions are patients asking?. *Clin Shoulder Elb*. 2023;26(1):55-63. doi:10.5397/cise.2022.01347.
14. Sardar H, Lee S, **Horner NS**, AlMana L, Lapner P, Alolabi B, Khan M. Indications and outcomes of glenoid osteotomy for posterior shoulder instability: a systematic review. *Shoulder Elbow*. 2023;15(2):117-131. doi:10.1177/17585732211056053.
15. Dandu N, **Horner NS**, Trasolini NA, Hevesi M, Cregar WM, Inoue N, Yanke AB. Anatomic Factors Associated With Osteochondral Allograft Matching for Trochlear Cartilage Defects: A Computer-Simulation Study. *Am J Sports Med*. 2022;50(13):3571-3578. doi:10.1177/03635465221121586.
16. NO PAin Investigators, Gazendam A, Ekhtiari S, **Horner NS**, Simunovic N, Khan M, de Sa DL, Madden K, Ayeni OR. Effect of a Postoperative Multimodal Opioid-Sparing Protocol vs Standard Opioid Prescribing on Postoperative Opioid Consumption After Knee or Shoulder Arthroscopy: A Randomized Clinical Trial. *JAMA*. 2022;328(13):1326-1335. doi:10.1001/jama.2022.16844.
17. Kaiser JT, Meeker ZD, **Horner NS**, Sivasundaram L, Wagner KR, Mazra AF, Cole BJ. Meniscal ramp lesions - Skillful neglect or routine repair?. *J Orthop*. 2022;32:31-35. doi:10.1016/j.jor.2022.05.001.
18. Meeker ZD, **Horner NS**, Wagner KR, Kaiser JT, Mazra AF, Cole BJ. Marrow stimulation in football (soccer) players: a narrative review. *Journal of Cartilage & Joint Preservation*. 2022;2(2):100063. doi:10.1016/j.jcjp.2022.100063.

19. **Horner NS**, Rice MW, Sivasundaram L, Ephron CG, Nho SJ. Effect of Sacroiliac Joint Pain on Outcomes in Patients Undergoing Hip Arthroscopy for the Treatment of Femoroacetabular Impingement Syndrome: A Matched Comparative Cohort Analysis at Minimum 2-Year Follow-up. *Am J Sports Med*. 2022;50(10):2606-2612. doi:10.1177/03635465221108975.
20. Sivasundaram L, Rice MW, **Horner NS**, Alter TD, Ephron CG, Nho SJ. Hip Arthroscopy for the Treatment of Femoroacetabular Impingement Syndrome in Hips With Mild Osteoarthritis (Tönnis Grade 1): A Matched Comparative Cohort Analysis at Minimum 5-Year Follow-up. *Am J Sports Med*. 2022;50(10):2598-2605. doi:10.1177/03635465221107354.
21. Perera E, Zhu XM, **Horner NS**, Bedi A, Ayeni OR, Khan M. Effects of Blood Flow Restriction Therapy for Muscular Strength, Hypertrophy, and Endurance in Healthy and Special Populations: A Systematic Review and Meta-Analysis. *Clin J Sport Med*. 2022;32(5):531-545. doi:10.1097/jsm.0000000000000991.
22. Wilfred AM, Akhter S, **Horner NS**, Aljedani A, Khan M, Alolabi B. Outcomes and complications of distal humeral hemiarthroplasty for distal humeral fractures - A systematic review. *Shoulder Elbow*. 2022;14(1):65-74. doi:10.1177/17585732211023100.
23. Haleem A, Shanmugaraj A, **Horner NS**, Leroux T, Khan M, Alolabi B. Anatomic total shoulder arthroplasty in rheumatoid arthritis: A systematic review. *Shoulder Elbow*. 2022;14(2):142-149. doi:10.1177/1758573220954157.
24. NO PAin Investigators. Protocol for a multicenter randomized controlled trial comparing a non-opioid prescription to the standard of care for pain control following arthroscopic knee and shoulder surgery. *BMC Musculoskelet Disord*. 2021;22(1):471. doi:10.1186/s12891-021-04354-x.
25. Liu EY, Kord D, Yee NJ, **Horner NS**, Al Mana L, Leroux T, Alolabi B, Khan M. Stemless reverse total shoulder arthroplasty: a systematic review of short- and mid-term results. *Shoulder Elbow*. 2021;13(5):482-491. doi:10.1177/17585732211013356.
26. Lee S, Sardar H, **Horner NS**, Al Mana L, Miller BS, Khan M, Alolabi B. Subscapularis-sparing approaches in shoulder arthroplasty: A systematic review. *J Orthop*. 2021;24:165-172. doi:10.1016/j.jor.2021.02.034.
27. Sedrak P, Hache P, **Horner NS**, Ayeni OR, Adili A, Khan M. Differential characteristics and management of pseudoseptic arthritis following hyaluronic acid injection is a rare complication: a systematic review. *J ISAKOS*. 2021;6(2):94-101. doi:10.1136/jisakos-2020-000438.
28. Nadeem IM, Shanmugaraj A, Sakha S, **Horner NS**, Ayeni OR, Khan M. Energy Drinks and Their Adverse Health Effects: A Systematic Review and Meta-analysis. *Sports Health*. 2021;13(3):265-277. doi:10.1177/1941738120949181.
29. Wang J, Stride D, **Horner NS**, Petrisor B, Johal H, Khan M, Alolabi B. The Role of Deltoid Ligament Repair in Ankle Fractures With Syndesmotic Instability: A Systematic Review. *J Foot Ankle Surg*. 2021;60(1):132-139. doi:10.1053/j.jfas.2020.02.014.
30. Gazendam A, Ekhtiari S, **Horner NS**, Nucci N, Dookie J, Ayeni OR. Perioperative nonopioid analgesia reduces postoperative opioid consumption in knee arthroscopy: a systematic review and meta-analysis. *Knee Surg Sports Traumatol Arthrosc*. 2021;29(6):1887-1903. doi:10.1007/s00167-020-06256-2.
31. Shanmugaraj A, Mahendralingam M, Gohal C, **Horner N**, Simunovic N, Musahl V, Samuelsson K, Ayeni OR. Press-fit fixation in anterior cruciate ligament reconstruction yields low graft failure and revision rates: a systematic review and meta-analysis. *Knee Surg Sports Traumatol Arthrosc*. 2021;29(6):1750-1759. doi:10.1007/s00167-020-06173-4.
32. Shanmugaraj A, Chai D, Sarraj M, Gohal C, **Horner NS**, Simunovic N, Athwal GS, Ayeni OR. Surgical stabilization of pediatric anterior shoulder instability yields high recurrence rates: a systematic review. *Knee Surg Sports Traumatol Arthrosc*. 2021;29(1):192-201. doi:10.1007/s00167-020-05913-w.
33. Nadeem IM, Vancolen S, **Horner NS**, Leroux T, Alolabi B, Khan M. Management of Failed SLAP Repair: A Systematic Review. *HSS J*. 2020;16(3):261-271. doi:10.1007/s11420-019-09700-3.

34. Gupta A, Tejpal T, Shanmugaraj A, **Horner NS**, Gohal C, Khan M. All-epiphyseal anterior cruciate ligament reconstruction produces good functional outcomes and low complication rates in pediatric patients: a systematic review. *Knee Surg Sports Traumatol Arthrosc.* 2020;28(8):2444-2452. doi:10.1007/s00167-020-06085-3.
35. Tejpal T, Shanmugaraj A, Gupta A, **Horner NS**, Simunovic N, Kishta W, Ayeni OR. Outcomes and complications of patients undergoing Salter's innominate osteotomies for hip dysplasia: a systematic review of comparative studies. *J Hip Preserv Surg.* 2020;7(4):621-630. doi:10.1093/jhps/hnab014.
36. **Horner NS**, Grønhaug Larsen KM, Svantesson E, Samuelsson K, Ayeni OR, Gjertsen JE, Östman B. Timing of hip hemiarthroplasty and the influence on prosthetic joint infection. *PLoS One.* 2020;15(3):e0229947. doi:10.1371/journal.pone.0229947.
37. Ekhtiari S, **Horner NS**, Shanmugaraj A, Duong A, Simunovic N, Ayeni OR. Narcotic Prescriptions following Knee and Shoulder Arthroscopy: A Survey of the Arthroscopy Association of Canada. *Cureus.* 2020;12(4):e7856. doi:10.7759/cureus.7856.
38. Olaiya OR, Nadeem I, **Horner NS**, Bedi A, Leroux T, Alolabi B, Khan M. Templating in shoulder arthroplasty - A comparison of 2D CT to 3D CT planning software: A systematic review. *Shoulder Elbow.* 2020;12(5):303-314. doi:10.1177/1758573219888780.
39. Liu EY, Kord D, **Horner NS**, Leroux T, Alolabi B, Khan M. Stemless anatomic total shoulder arthroplasty: a systematic review and meta-analysis. *J Shoulder Elbow Surg.* 2020;29(9):1928-1937. doi:10.1016/j.jse.2019.12.022.
40. Elsayi RS, Vancolen SY, **Horner NS**, Khan M, Alolabi B. Surgical treatment of trapezius palsy: A systematic review. *Shoulder Elbow.* 2020;12(3):153-162. doi:10.1177/1758573219872730.
41. Nadeem IM, Vancolen S, **Horner NS**, Bedi A, Alolabi B, Khan M. Return to Sport After Coracoid Bone Block Transfer for Shoulder Instability: A Systematic Review. *HSS J.* 2020;16(3):296-306. doi:10.1007/s11420-019-09720-z.
42. Vancolen SY, Elsayi R, **Horner NS**, Leroux T, Alolabi B, Khan M. Reverse total shoulder arthroplasty in the younger patient (≤ 65 years): a systematic review. *J Shoulder Elbow Surg.* 2020;29(1):202-209. doi:10.1016/j.jse.2019.06.018.
43. Kord D, Liu E, **Horner NS**, Athwal GS, Khan M, Alolabi B. Outcomes of scapulothoracic fusion in facioscapulohumeral muscular dystrophy: A systematic review. *Shoulder Elbow.* 2020;12(2):75-90. doi:10.1177/1758573219866195.
44. Hildebrand AH, Zhang B, **Horner NS**, King G, Khan M, Alolabi B. Indications and outcomes of radial head excision: A systematic review. *Shoulder Elbow.* 2020;12(3):193-202. doi:10.1177/1758573219864305.
45. Shanmugaraj A, Tejpal T, Ekhtiari S, Gohal C, **Horner N**, Hanson B, Khan M, Bhandari M. The repair of horizontal cleavage tears yields higher complication rates compared to meniscectomy: a systematic review. *Knee Surg Sports Traumatol Arthrosc.* 2020;28(3):915-925. doi:10.1007/s00167-019-05557-5.
46. Ekhtiari S, **Horner NS**, Simunovic N, Ayeni OR. The PRECISION Survey: Preferences of Physicians Regarding Ultrasound-Guided Intra-Articular Injections. *Clin J Sport Med.* 2020;30(4):372-377. doi:10.1097/jsm.0000000000000612.
47. Shanmugaraj A, Shell JR, **Horner NS**, Duong A, Simunovic N, Uchida S, Ayeni OR. How Useful Is the Flexion-Adduction-Internal Rotation Test for Diagnosing Femoroacetabular Impingement: A Systematic Review. *Clin J Sport Med.* 2020;30(1):76-82. doi:10.1097/jsm.0000000000000575.
48. Uy M, Wang J, **Horner NS**, Bedi A, Leroux T, Alolabi B, Khan M. Cemented humeral stem versus press-fit humeral stem in total shoulder arthroplasty: a systematic review and meta-analysis. *Bone Joint J.* 2019;101-B(9):1107-1114. doi:10.1302/0301-620x.101b9.bjj-2018-1369.r1.
49. Coughlin RP, Gohal C, **Horner NS**, Shanmugaraj A, Simunovic N, Cadet ER, Bedi A, Ayeni OR. Return to Play and In-Game Performance Statistics Among Pitchers After Ulnar Collateral Ligament Reconstruction of the Elbow: A Systematic Review. *Am J Sports Med.* 2019;47(8):2003-2010. doi:10.1177/0363546518798768.

50. Tejpal T, Gupta A, Shanmugaraj A, **Horner NS**, Simunovic N, Peterson DC, Ayeni OR. Anteromedial Portal Double-Bundle Anterior Cruciate Ligament Reconstruction Yields Similar Outcomes to Non-AMP Femoral Drilling Double-Bundle Techniques: A Systematic Review of Comparative Studies. *Orthop J Sports Med*. 2019;7(12):2325967119888140. doi:10.1177/2325967119888140.
51. Thayaparan A, Yu J, **Horner NS**, Leroux T, Alolabi B, Khan M. Return to Sport After Arthroscopic Superior Labral Anterior-Posterior Repair: A Systematic Review. *Sports Health*. 2019;11(6):520-527. doi:10.1177/1941738119873892.
52. Khan M, Alolabi B, **Horner N**, Bedi A, Ayeni OR, Bhandari M. Surgery for shoulder impingement: a systematic review and meta-analysis of controlled clinical trials. *CMAJ Open*. 2019;7(1):E149-E158. doi:10.9778/cmajo.20180179.
53. Ansari AS, Dennis BB, **Horner NS**, Zhu M, Brookes C, Khan M, Grant JA. Influence of Graft Source on Postoperative Activity and Joint Laxity in Posterior Cruciate Ligament Reconstruction: A Systematic Review. *Arthroscopy*. 2019;35(1):262-274.e6. doi:10.1016/j.arthro.2018.07.027.
54. Bhullar R, Habib A, Zhang K, de Sa D, **Horner NS**, Duong A, Simunovic N, Espregueira-Mendes J, Ayeni OR. Tunnel osteolysis post-ACL reconstruction: a systematic review examining select diagnostic modalities, treatment options and rehabilitation protocols. *Knee Surg Sports Traumatol Arthrosc*. 2019;27(2):524-533. doi:10.1007/s00167-018-5142-9.
55. Kuper G, Shanmugaraj A, **Horner NS**, Ekhtiari S, Simunovic N, Cadet ER, Ayeni OR. Critical shoulder angle is an effective radiographic parameter that is associated with rotator cuff tears and osteoarthritis: a systematic review. *Journal of ISAKOS*. 2019;4(2):113-120. doi:10.1136/jisakos-2018-000255.
56. Gupta A, Tejpal T, Shanmugaraj A, **Horner NS**, Simunovic N, Duong A, Ayeni OR. Surgical Techniques, Outcomes, Indications, and Complications of Simultaneous High Tibial Osteotomy and Anterior Cruciate Ligament Revision Surgery: A Systematic Review. *HSS J*. 2019;15(2):176-184. doi:10.1007/s11420-018-9630-8.
57. Stride D, Wang J, **Horner NS**, Alolabi B, Khanna V, Khan M. Indications and outcomes of simultaneous high tibial osteotomy and ACL reconstruction. *Knee Surg Sports Traumatol Arthrosc*. 2019;27(4):1320-1331. doi:10.1007/s00167-019-05379-5.
58. Liu EY, Hildebrand A, **Horner NS**, Athwal GS, Khan M, Alolabi B. Heterotopic ossification after total elbow arthroplasty: a systematic review. *J Shoulder Elbow Surg*. 2019;28(3):587-595. doi:10.1016/j.jse.2018.10.003.
59. Vancolen SY, Nadeem I, **Horner NS**, Johal H, Alolabi B, Khan M. Return to Sport After Ankle Syndesmotic Injury: A Systematic Review. *Sports Health*. 2019;11(2):116-122. doi:10.1177/1941738118816282.
60. Yu J, Zhang C, **Horner N**, Ayeni OR, Leroux T, Alolabi B, Khan M. Outcomes and Return to Sport After Pectoralis Major Tendon Repair: A Systematic Review. *Sports Health*. 2019;11(2):134-141. doi:10.1177/1941738118818060.
61. Zhang B, Thayaparan A, **Horner N**, Bedi A, Alolabi B, Khan M. Outcomes of hyaluronic acid injections for glenohumeral osteoarthritis: a systematic review and meta-analysis. *J Shoulder Elbow Surg*. 2019;28(3):596-606. doi:10.1016/j.jse.2018.09.011.
62. Coughlin RP, Lee Y, **Horner NS**, Simunovic N, Cadet ER, Ayeni OR. Increased pitch velocity and workload are common risk factors for ulnar collateral ligament injury in baseball players: a systematic review. *Journal of ISAKOS*. 2019;4(1):41-47. doi:10.1136/jisakos-2018-000226.
63. Yan JR, Oreskovich S, Oduwole K, **Horner N**, Khanna V, Adili A. Cement Waste During Primary Total Knee Arthroplasty and its Effect on Cost Savings: An Institutional Analysis. *Cureus*. 2018;10(11):e3637. doi:10.7759/cureus.3637.
64. **Horner NS**, Moroz PA, Bhullar R, Habib A, Simunovic N, Wong I, Bedi A, Ayeni OR. Open versus arthroscopic Latarjet procedures for the treatment of shoulder instability: a systematic review of comparative studies. *BMC Musculoskelet Disord*. 2018;19(1):255. doi:10.1186/s12891-018-2188-2.

65. Ekhtiari S, **Horner NS**, Bedi A, Ayeni OR, Khan M. The Learning Curve for the Latarjet Procedure: A Systematic Review. *Orthop J Sports Med.* 2018;6(7):2325967118786930. doi:10.1177/2325967118786930.
66. Gohal C, Shanmugaraj A, Tate P, **Horner NS**, Bedi A, Adili A, Khan M. Effectiveness of Valgus Offloading Knee Braces in the Treatment of Medial Compartment Knee Osteoarthritis: A Systematic Review. *Sports Health.* 2018;10(6):500-514. doi:10.1177/1941738118763913.
67. Kay J, Kirsch JM, Bakshi N, Ekhtiari S, **Horner N**, Gichuru M, Alolabi B, Khan M, Bedi A. Humeral Retroversion and Capsule Thickening in the Overhead Throwing Athlete: A Systematic Review. *Arthroscopy.* 2018;34(4):1308-1318. doi:10.1016/j.arthro.2017.10.049.
68. Moroz PA, Quick EE, **Horner NS**, Duong A, Simunovic N, Ayeni OR. What Is the State of the Evidence in Anterolateral Ligament Research?. *Clin Sports Med.* 2018;37(1):137-159. doi:10.1016/j.csm.2017.07.013.
69. Kirsch JM, Bedi A, **Horner N**, Wiater JM, Pauzenberger L, Koueiter DM, Miller BS, Bhandari M, Khan M. Tranexamic Acid in Shoulder Arthroplasty: A Systematic Review and Meta-Analysis. *JBJS Rev.* 2017;5(9):e3. doi:10.2106/jbjs.rvw.17.00021.
70. **Horner NS**, Samuelsson K, Solyom J, Bjørgul K, Ayeni OR, Östman B. Implant-Related Complications and Mortality After Use of Short or Long Gamma Nail for Intertrochanteric and Subtrochanteric Fractures: A Prospective Study with Minimum 13-Year Follow-up. *JB JS Open Access.* 2017;2(3):e0026. doi:10.2106/jbjs.oe.17.00026.
71. Quinn R, **Horner NS**, Pazionis T, Katsios CM. Is Knee Arthroscopy for Degenerative Meniscal Tears an Unnecessary Procedure? *Ortho & Rheum Open Access.* 2017;7(3):555715. doi:10.19080/OROAJ.2017.07.555715.
72. Ekhtiari S, **Horner NS**, de Sa D, Simunovic N, Hirschmann MT, Ogilvie R, Berardelli RL, Whelan DB, Ayeni OR. Arthrofibrosis after ACL reconstruction is best treated in a step-wise approach with early recognition and intervention: a systematic review. *Knee Surg Sports Traumatol Arthrosc.* 2017;25(12):3929-3937. doi:10.1007/s00167-017-4482-1.
73. **Horner NS**, Vikas K, MacDonald AE, Naendrup JH, Simunovic N, Ayeni OR. Femoral neck fractures as a complication of hip arthroscopy: a systematic review. *J Hip Preserv Surg.* 2017;4(1):9-17. doi:10.1093/jhps/hnw048.
74. **Horner NS**, Ekhtiari S, Simunovic N, Safran MR, Philippon MJ, Ayeni OR. Hip Arthroscopy in Patients Age 40 or Older: A Systematic Review. *Arthroscopy.* 2017;33(2):464-475.e3. doi:10.1016/j.arthro.2016.06.044.
75. Khan M, Oduwole KO, Razdan P, Phillips M, Ekhtiari S, **Horner NS**, Samuelsson K, Ayeni OR. Sources and quality of literature addressing femoroacetabular impingement: a scoping review 2011-2015. *Curr Rev Musculoskelet Med.* 2016;9(4):396-401. doi:10.1007/s12178-016-9364-5.
76. **Horner NS**, Ekhtiari S, Simunovic N, Bedi A, Glyn-Jones S, Ayeni OR. Early evidence reports positive outcomes after osteochondral grafts and chondrocyte transplantation in the hip: a systematic review. *Journal of ISAKOS.* 2016;1(5):240-249. doi:10.1136/jisakos-2016-000059.
77. **Horner NS**, de Sa D, Heaven S, Simunovic N, Bedi A, Athwal GS, Ayeni OR. Indications and outcomes of shoulder arthroscopy after shoulder arthroplasty. *J Shoulder Elbow Surg.* 2016;25(3):510-518. doi:10.1016/j.jse.2015.09.013.
78. Yeung M, Jamshidi S, **Horner N**, Simunovic N, Karlsson J, Ayeni OR. Efficacy of Nonsteroidal Anti-inflammatory Drug Prophylaxis for Heterotrophic Ossification in Hip Arthroscopy: A Systematic Review. *Arthroscopy.* 2016;32(3):519-525. doi:10.1016/j.arthro.2015.08.007.
79. MacDonald AE, Bedi A, **Horner NS**, de Sa D, Simunovic N, Philippon MJ, Ayeni OR. Indications and Outcomes for Microfracture as an Adjunct to Hip Arthroscopy for Treatment of Chondral Defects in Patients With Femoroacetabular Impingement: A Systematic Review. *Arthroscopy.* 2016;32(1):190-200.e2. doi:10.1016/j.arthro.2015.06.041.

80. de Sa D, **Horner NS**, MacDonald A, Simunovic N, Slobogean G, Philippon MJ, Belzile EL, Karlsson J, Ayeni OR. Evaluating healthcare resource utilization and outcomes for surgical hip dislocation and hip arthroscopy for femoroacetabular impingement. *Knee Surg Sports Traumatol Arthrosc.* 2016;24(12):3943-3954. doi:10.1007/s00167-015-3722-5.
81. Sim Y, **Horner NS**, de Sa D, Simunovic N, Karlsson J, Ayeni OR. Reporting of non-hip score outcomes following femoroacetabular impingement surgery: a systematic review. *J Hip Preserv Surg.* 2015;2(3):224-241. doi:10.1093/jhps/hnv048.
82. de Sa D, **Horner NS**, MacDonald A, Simunovic N, Ghert MA, Philippon MJ, Ayeni OR. Arthroscopic surgery for synovial chondromatosis of the hip: a systematic review of rates and predisposing factors for recurrence. *Arthroscopy.* 2014;30(11):1499-1504.e2. doi:10.1016/j.arthro.2014.05.033.
83. **Horner NS**, Beauchemin D. The use of sol-gels as solid calibration standards for the analysis of soil samples by laser ablation coupled to inductively coupled plasma mass spectrometry. *J. Anal. At. Spectrom.* 2014;29(4):715-720. doi:10.1039/c3ja50374g.
84. **Horner NS**, Beauchemin D. The effect of cooking and washing rice on the bio-accessibility of As, Cu, Fe, V and Zn using an on-line continuous leaching method. *Anal Chim Acta.* 2013;758:28-35. doi:10.1016/j.aca.2012.11.011.
85. **Horner NS**, Beauchemin D. A simple method using on-line continuous leaching and ion exchange chromatography coupled to inductively coupled plasma mass spectrometry for the speciation analysis of bio-accessible arsenic in rice. *Anal Chim Acta.* 2012;717:1-6. doi:10.1016/j.aca.2011.12.049.

Published book chapters

1. **Horner NS**, Gohal C, Ayeni OR, Whelan DB. Posterolateral Corner Injuries. In: Bhandari M, ed. *Evidence-Based Orthopedics.* 2nd ed. Wiley; 2021:815-818. doi:10.1002/9781119413936.ch139.
2. MD CG, **Horner NS**, Safran MR. Labral Tears. In: Bhandari M, ed. *Evidence-Based Orthopedics.* 2nd ed. Wiley; 2021:775-778. doi:10.1002/9781119413936.ch131.
3. Gohal C, **Horner NS**, Abouali J, Theodoropoulos J. Posterior Cruciate Ligament Injuries. In: Bhandari M, ed. *Evidence-Based Orthopedics.* 2nd ed. Wiley; 2021:799-803. doi:10.1002/9781119413936.ch136.
4. Marin-Peña O, Bajwa A, Papavasiliou AV, Gebhart C, Lund B, Khanduja V, Ayeni OR, Perez-Carro L, **Horner NS**, Kurz AZ, Sunil Kumar KH, Rai A. Advanced Hip Arthroscopy: What's New?. In: Kon E, Samuelsson K, Denti M, Dejour D, eds. *ESSKA Instructional Course Lecture Book.* Springer; 2020:183-210. doi:10.1007/978-3-662-61264-4_26.
5. **Horner NS**, Ekhtiari S, Chan AA, Choudur HN, Ayeni OR. Joint Specific Return to Play Recommendations: "Return to Play in Non-operative Hip/Groin Pain". In: Musahl V, Karlsson J, Krutsch W, Mandelbaum BR, Espregueira-Mendes J, d'Hooghe P, eds. *Return to Play in Football: An Evidence-Based Approach.* Springer; 2018:331-346. doi:10.1007/978-3-662-55713-6_27.
6. **Horner NS**, Jorgensen U, de SA D, Ayeni OR. Management of Extra-articular Hip Conditions in Patients with Concurrent FAI. In: Ayeni OR, Karlsson J, Philippon MJ, Safran MR, eds. *Diagnosis and Management of Femoroacetabular Impingement: An Evidence-Based Approach.* Springer; 2017:189-199. doi:10.1007/978-3-319-32000-7_15.
7. **Horner NS**, MacDonald AE, Catapano M, de SA D, Ayeni OR, Williams R. Evidence-Based Approach to the Nonoperative Management of FAI. In: Ayeni OR, Karlsson J, Philippon MJ, Safran MR, eds. *Diagnosis and Management of Femoroacetabular Impingement: An Evidence-Based Approach.* Springer; 2017:69-78. doi:10.1007/978-3-319-32000-7_6.
8. Kay J, MacDonald A, de SA D, **Horner NS**, Phillips M, Parmar D, Peterson D, Ayeni OR. Autograft and Allograft Options in Knee Ligament Reconstruction. In: Mascarenhas R, Bhatia S, Lowe WR, eds. *Ligamentous Injuries of the Knee.* Nova Science Publishers; 2016.

Research Funding & Grants

Co-Primary Investigator — Non-Opioid Prescriptions after Arthroscopic Surgery in Canada (NO PAin) trial.

All funding amounts are in Canadian dollars (CAD).

June 2023	CIHR-IMHA Inclusive Research Excellence Prize — \$25,000 Non-Opioid Prescriptions after Arthroscopic Surgery in Canada (NO PAin): A Randomized Controlled Trial
September 2020	PSI Resident Research Grant — \$29,500 Non-Opioid Prescriptions after Arthroscopic Surgery in Canada (NO PAin): A Randomized Controlled Trial
June 2020	Hamilton Health Sciences New Investigator Fund — \$50,000 Non-Opioid Prescriptions after Arthroscopic Surgery in Canada (NO PAin): A Randomized Controlled Trial
February 2020	First Cut Award — \$1,000 Non-Opioid Prescriptions after Arthroscopic Surgery in Canada (NO PAin): A Randomized Controlled Trial
May 2013	NSERC Undergraduate Student Research Award — \$6,500 The effect of cooking and washing rice on the bio-accessibility of As, Cu, Fe, V and Zn using an on-line continuous leaching method

Total of listed awards excluding declined scholarship: CAD \$112,000.

Scholarship awarded and declined

May 2013	Ontario Graduate Scholarship — \$30,000 (\$15,000/year for two years); declined to pursue medical school. The rapid assessment of potentially toxic elements in food products using an on-line continuous leaching method
----------	--

Conference Abstracts & Proceedings

Poster presentations

1. AOSSM 2023. Poster: Medial Meniscal Root Repair versus Debridement: A Retrospective Comparative Cohort Study.
2. AOSSM specialty day 2023. Poster: Medial Meniscal Root Repair versus Debridement: Two-Year Post Operative Outcomes.
3. AOSSM specialty day 2024. Poster: High-Level Competitive Athletes Undergoing Hip Arthroscopy Demonstrate Durable 5-Year Outcomes and Lower Subjective Pain Compared to Controls: A Propensity Matched Analysis.
4. AOSSM 2024. Poster: Prognostic Factors for Increased Pain and Opioid Consumption Following Arthroscopic Knee and Shoulder Surgery in the Acute Postoperative Period.

Additional conference abstracts & presentations

5. COA 2024. Podium: Prognostic Factors for Increased Pain and Opioid Consumption Following Arthroscopic Knee and Shoulder Surgery in the Acute Postoperative Period.
6. COA 2024. Poster: Machine Learning for Predicting Outcomes, Complications and Resource Utilization After Hip Arthroscopy: A Systematic Review.
7. AANA 2023. Podium. Pivotal Analysis of a Biphasic Interpositional Allograft for Rotator Cuff Repair Augmentation.
8. AOSSM 2023. Podium/Poster: Outcomes of High-Level Competitive Athletes Undergoing Hip Arthroscopy as Compared to Non-Competitive Athletes at 5-Year Follow-Up: A Propensity Matched Analysis.

9. AAOS 2023. Podium. Multimodal Opioid Sparing Postoperative Pain Protocol versus Standard of Care for Patients Undergoing Knee and Shoulder Arthroscopy: A Randomized Controlled Trial.
10. ISAKOS 2023. Podium. Multimodal Opioid Sparing Postoperative Pain Protocol versus Standard of Care for Patients Undergoing Knee and Shoulder Arthroscopy: A Randomized Controlled Trial.
11. ORS 2023. Pivotal Analysis of a Biphasic Interpositional Allograft for Rotator Cuff Repair Augmentation.
12. AANA 2023. Poster. Outcomes After Revision Hip Arthroscopy: A Propensity-Matched Comparative Cohort Analysis at Minimum 5-Year Follow-Up.
13. ISHA 2023. Podium. Does Sacroiliac Joint Pain Worsen Outcomes in Patients Undergoing Hip Arthroscopy for the Treatment of Femoroacetabular Impingement Syndrome? A Matched Comparative Cohort Analysis at Minimum 2-Year Follow-Up.
14. ISHA 2023. Podium. The Impact of Severity of Synovitis Identified Intraoperatively on Preoperative and Postoperative Pain After Arthroscopic Treatment of Femoroacetabular Impingement Syndrome: Results from the (Blinded for Review) Study Group.
15. ISHA 2023. Podium. Staged Bilateral Hip Arthroscopy for the Treatment of Femoroacetabular Impingement Syndrome: Do Outcomes after the Index Hip Arthroscopy Predict Outcomes for the Contralateral Hip?
16. ISHA 2023. Poster. Hip Arthroscopy for the Treatment of Femoroacetabular Impingement Syndrome in Hips with Mild Osteoarthritis (Tönnis Grade 1): A Matched Comparative Cohort Analysis at Minimum 5-Year Follow-Up
17. ISHA 2023. Poster. Does Coxa Profunda Indicate Acetabular Overcoverage and Affect Outcomes after Hip Arthroscopy? A Comparative Cohort Analysis
18. ISHA 2023. Poster. Conservative Management vs Contralateral Augmented Core Decompression for Bilateral Osteonecrosis at 5-Years: A Case Report
19. McMaster University Divisional Day. Podium. Multimodal Opioid Sparing Postoperative Pain Protocol versus Standard of Care for Patients Undergoing Knee and Shoulder Arthroscopy: A Randomized Controlled Trial.
20. AOSSM 2022. Poster: Anatomic Factors Associated with Osteochondral Allograft Matching for Trochlear Cartilage Defects: A Computer-Simulated Study.
21. AAOS 2022. Podium/Poster: Anatomic Factors Associated with Osteochondral Allograft Matching for Trochlear Cartilage Defects: A Computer-Simulated Study.
22. AAOS 2022. Podium/Poster: Does the Extent of Synovitis Identified Intraoperatively affect Postoperative Pain at 2-Years during Arthroscopic Treatment of Femoroacetabular Impingement Syndrome? Results from a Multicenter Study Group.
23. AAOS 2022. Poster: An Analysis of Shoulder Surgeon Volume On Surgeon Competency, Hospital Costs and Adverse Events.
24. COA 2022. Podium: Non-Opioid Prescriptions after Arthroscopic Surgery in Canada (NO PAIN): A Randomized Controlled Trial.
25. CORA 2022. Podium: Non-Opioid Prescriptions after Arthroscopic Surgery in Canada (NO PAIN): A Randomized Controlled Trial.
26. AOSSM 2022. Poster: Anatomic Factors Associated with Osteochondral Allograft Matching for Trochlear Cartilage Defects: A Computer-Simulated Study.
27. ISAKOS 2021. Poster: Wait Times for Knee Arthroscopy: Are patients suffering?
28. ISAKOS 2021. Podium: Effects of Blood Flow Restriction therapy for muscular strength, hypertrophy and endurance in healthy and special populations: a systematic review and meta- analysis.
29. ISAKOS 2021. Poster: Subscapularis-Sparing Approaches In Shoulder Arthroplasty: A Systematic Review.
30. COA 2021. Poster: Subscapularis-sparing Approaches in Shoulder Arthroplasty: A Systematic Review.

31. COA 2021. Poster: Indications and Outcomes of Glenoid Osteotomy for Posterior Shoulder Instability: A Systematic Review.
32. McMaster Resident Research Day 2021. Oral: Timing of Hip Hemiarthroplasty and the Influence on Prosthetic Joint Infection.
33. CASEM 2020. Podium/Poster: Anteromedial Portal (AMP) Double Bundle (DB) Anterior Cruciate Ligament Reconstruction Yields Similar Outcomes to Non-AMP Femoral Drilling DB Techniques.
34. CASEM 2020. Poster: Narcotic Prescriptions following Knee and Shoulder Arthroscopy: A Surgeon Survey.
35. COA 2019. Podium: Surgery has Little Benefit in Patients with Shoulder Impingement: A Meta- Analysis of Controlled Trials
36. ICORS. Podium: Surgery has Little Benefit in Patients with Shoulder Impingement: A Meta- Analysis of Controlled Trials
37. COA 2019. Podium: What is the Role of the Deltoid Ligament Repair in Ankle Fracture?
38. COA 2019. Poster: The Critical Shoulder Angle is an Effective Radiographic Parameter to Predict the Presence of Shoulder Pathologies: A Systematic Review.
39. COA 2019. Poster: Cemented Humeral Stem versus Press-fit Humeral Stem in Total Shoulder Arthroplasty: A Systematic Review.
40. ISAKOS 2019. Poster: What Is the Role of Deltoid Ligament Repair in Ankle Fractures?: A Systematic Review.
41. ISAKOS 2019. Poster: Cemented Humeral Stem versus Press-Fit Humeral Stem in Total Shoulder Arthroplasty: A Systematic Review.
42. ISAKOS 2019. Poster: Outcomes and Return to Sport After Pectoralis Major Tendon Repair: A Systematic Review.
43. ISAKOS 2019. Poster: Heterotopic Ossification After Total Elbow Arthroplasty: A Systematic Review.
44. CASEM 2019. Poster: The Critical Shoulder Angle is an Effective Radiographic Parameter to Predict the Presence of Shoulder Pathologies: A Systematic Review.
45. AAOS 2019. Podium: Outcomes and Return to Sport After Pectoralis Major Tendon Repair: A Systematic Review.
46. AAOS 2019. Podium: Return to Sport Following Coracoid Bone Block Transfer for Shoulder Instability: A Systematic Review.
47. SICOT 2018. Podium: Open Versus Arthroscopic Latarjet Procedure: A Systematic Review of Comparative Studies.
48. CORA 2018. Podium: Cement waste during primary total knee arthroplasty and its effect on cost savings.
49. CORA 2018. Poster: Tunnel Widening in ACL Reconstruction – A Systematic Review Examining Diagnostic Modalities, Treatment Options, and Outcomes.
50. COA 2018. Poster: Cement waste during primary total knee arthroplasty and its effect on cost savings.
51. CASEM 2018. Poster: The PRECISION Survey: Preferences of Physicians Regarding Image-Guided Joint Injections.
52. OMA Sport Med Conference 2018. Podium: The PRECISION Survey: Preferences of Physicians Regarding Image-Guided Joint Injections.
53. OMA Sport Med Conference 2018. Podium: How Useful is the Flexion-Adduction-Internal Rotation (FADIR) Test for Diagnosing Femoroacetabular Impingement – A Systemic Review.
54. Perioperative Care Congress 2018. Poster: Outcomes of Hyaluronic Acid Injections for Glenohumeral Osteoarthritis: A Systematic Review and Meta-analysis.

55. Perioperative Care Congress 2018. Poster: Cement waste during primary total knee arthroplasty and its effect on cost savings.
56. Perioperative Care Congress 2018. Poster: What is the Role of Deltoid Ligament Repair in Ankle Fractures: A Systematic Review.
57. Perioperative Care Congress 2018. Poster: Heterotopic ossification after total elbow arthroplasty: a systematic review.
58. Perioperative Care Congress 2018. Poster: Outcomes and Indications of Simultaneous High Tibial Osteotomy and ACL Reconstruction: A Systematic Review.
59. ISAKOS 2017. Poster: Hip Arthroscopy In Patients Over Age 40: A Systematic Review.
60. ISHA Annual Scientific Meeting 2017. Poster: How Useful is the Flexion-Adduction-Internal Rotation (FADIR) Test for Diagnosing Femoroacetabular Impingement - A Systematic Review.
61. CASEM 2017. Podium: Arthrofibrosis after ACL reconstruction is best treated in a step-wise approach with early recognition and intervention: a systematic review.
62. ESSKA 17th Congress 2016. Podium: Indications and outcomes of shoulder arthroscopy after shoulder arthroplasty.
63. ISHA Annual Scientific Meeting 2016. Poster: Hip Arthroscopy In Patients Over Age 40: A Systematic Review.
64. ISHA Annual Scientific Meeting 2015. Poster: Reporting of Non-Hip Score Outcomes following Femoroacetabular Impingement Surgery: A Systematic Review.
65. ISHA Annual Scientific Meeting 2015. Poster: Indications and Outcomes for Microfracture During Hip Arthroscopy for Treatment of Chondral Defects in Patients With Femoroacetabular Impingement: A Systematic Review.
66. ISHA Annual Scientific Meeting 2015. Poster: A Systematic Review Evaluating Health Care Resource Utilization and Outcomes for Surgical Hip Dislocation and Hip Arthroscopy for Femoroacetabular Impingement.
67. ISHA Annual Scientific Meeting 2015. Poster: Efficacy of Nonsteroidal Anti-Inflammatory Drug Prophylaxis for Heterotopic Ossification in Hip Arthroscopy: A Systematic Review.
68. ISHA Annual Scientific Meeting 2014. Poster: Synovial Chondromatosis of the Hip.
69. ICASS 2013. Poster: The use of xerogels as solid calibration standards for the analysis of soil samples.
70. Canadian Chemistry Conference and Exhibition 2013. Podium: Arsenic speciation using ETV-ICP- OES
71. ICASS 2011. Poster: The determination of bio-accessible fraction of arsenic in rice.

Professional Affiliations

American Academy of Orthopaedic Surgeons (AAOS)

American Orthopaedic Society for Sports Medicine (AOSSM)

Arthroscopy Association of Canada (AAC)

Arthroscopy Association of North America (AANA)

International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS)

Canadian Shoulder and Elbow Society (CSES)

Canadian Orthopaedic Association (COA)

Ontario Medical Association (OMA)

Canadian Medical Association (CMA)

Visiting Observerships

November 2019	Hospital for Special Surgery — Dr. Anil Ranawat Hip arthroscopy / sports medicine
November 2019	Stanford University — Dr. Marc Safran Hip arthroscopy / sports medicine
October 2019	The Steadman Clinic, Vail — Dr. Marc Philippon Hip arthroscopy / sports medicine
October 2019	Rush University Medical Center — Dr. Nikhil Verma Sports medicine

Peer Review

American Journal of Sports Medicine
Arthroscopy
Knee Surgery, Sports Traumatology, Arthroscopy
Journal of Shoulder & Elbow Surgery
Shoulder & Elbow
BMJ Case Reports
Sports Health
BMC Sports Science, Medicine and Rehabilitation
BMC Musculoskeletal Disorders
Scientific Reports
Osteology
Cureus
Journal of Hip Preservation Surgery
Journal of Clinical Medicine
Orthopedic & Muscular System: Current Research
Military Medical Research
The Journal of International Medical Research
Physical Therapy in Sport
International Journal of Gerontology

Quality Improvement

Juravinski Hospital, Hamilton, ON — Implemented an accelerated hip fracture admission pathway and prebuilt order sets to improve the time from diagnosis to admission.

St. Joseph's Hospital, Hamilton, ON — Supported adoption of a similar accelerated hip fracture admission pathway following implementation at Juravinski Hospital.

Media & Educational Contributions

News coverage

NO PAin randomized clinical trial — Featured by MSN, Fox News, Medscape and UK News.

Educational modules

Horner NS, Khan M. Impingement Syndrome — Is There a Role for Acromioplasty? In: AAOS Surgical Insights: Rotator Cuff Tears.

Horner NS, Khan M, Bedi A. Knee Cartilage Injuries. In: JBJS Clinical Summaries.

Podcast

Casting Orthopod, Episode 10: R5 Retrospectives with Dr. Nolan Horner and Dr. Patrick Thornley.

Awards, Scholarships & Academic Accomplishments

June 2022	Best Trainee Research Paper – Canadian Orthopedic Association
June 2021	Resident Research Symposium – 1st place in home program, 2nd place in cross country competition
March 2021	Canadian Orthopaedic Foundation Basic Science Scholarship
December 2020	Most Outstanding Resident – Department of Surgery 2020
November 2018	98th percentile Orthopaedic In-Training Examination (OITE) Score
November 2017	99th percentile Orthopaedic In-Training Examination (OITE) Score
August 2013	Student Travel Award – 57th International Conference on Analytical Science and Spectroscopy
May 2013	Best Poster Award - 57th International Conference on Analytical Science and Spectroscopy
May 2013	Student Travel Award - Canadian Chemistry Conference and Exhibition
May 2013	Best Undergraduate Thesis Queen's University (runner-up)
May 2013	Society of Chemical Industry Award
August 2012	Queen Elizabeth II Scholarship 2012
December 2011	Published study "A simple method using on-line continuous leaching and ion exchange chromatography coupled to inductively coupled plasma mass spectrometry for the speciation analysis of bio-accessible arsenic in rice" - featured on the cover of Analytica Chimica Acta.
August 2011	Queen Elizabeth II Scholarship 2011
August 2011	Student Travel Award – 55th International Conference on Analytical Science and Spectroscopy
August 2010	Queen Elizabeth II Scholarship 2010
August 2010	Annie Bentley Lillie Prize in Calculus
August 2009	Queen Elizabeth II Scholarship 2009
August 2009	Lena MacNeil Scholarship

Team & Event Coverage

2026–Present	Head Team Physician — Roosevelt University Athletics
2022–Present	Team Physician — Hope Academy Chicago
2022	Assistant Team Physician Chicago Fire
2022	Team Physician Chicago White Sox (MLB)
2022	Chicago Fire (MLS) training camp entrance physicals
2022	MLB Spring Training (Arizona)
2022	McDonald's All-American Game
2022	Big East Softball Tournament (NCAA Division 1)
2021–2022	Assistant Team Physician Chicago Bulls (NBA)
2021–2022	Team Physician Chicago Steel (USHL)

2021-2022	Team Physician DePaul University Women's Basketball (NCAA Division 1)
2021-2022	Team Physician Athletes Unlimited Pro Softball
2017-2020	Hamilton Tiger-Cats (CFL) training camp entrance physicals

Additional Examinations & Training Credentials

October 2018	United States Medical Licensing Examination (USMLE) Step 3
June 2018	United States Medical Licensing Examination (USMLE) Step 2 CS
March 2018	Royal College Surgical Foundations Examination
November 2017	Licentiate of the Medical Council of Canada (LMCC) Exam 2
July 2016	Acute Musculoskeletal Trauma Limb Support (AMTLS) Certified
July 2016	Advanced Trauma Life Support (ATLS) Certified
June 2016	Licentiate of the Medical Council of Canada (LMCC) Exam 1
January 2016	United States Medical Licensing Examination (USMLE) Step 2 CK
July 2015	United States Medical Licensing Examination (USMLE) Step 1

Continuing Education Courses

May 2022	Arthrex Fellow's Arthroscopy Course
April 2022	Tournier Shoulder Arthroplasty Fellow's Course
July 2021	AOSSM Fellows Arthroscopy Course
May 2021	Arthrex Advanced Shoulder and Knee Arthroscopy Course
October 2020	CONMED Shoulder Arthroscopy Course
May 2018	Hip Conditions in the Young Adult: A Practical Course
March 2018	CONMED Knee Arthroscopy Course
September 2017	Principles and Practices of Clinical Research Course
March 2017	CONMED Shoulder Arthroscopy Course
July 2016	Surgical Bootcamp

Teaching, Leadership & Service

2020	Resident representative on Hamilton General Hospital hiring committee for Orthopedic Surgeons
2020	Resident representative on McMaster University Orthopedic Surgery residency selection committee
2020	University of Pittsburgh Sports Journal Club
2019-2021	McMaster University Orthopedic Surgery chief resident
2017-2020	McMaster University Health Science (HTH SCI 3H03/4D03) Inquiry Project assistant supervisor
2017-2020	Sports Medicine Research and Evidence Based Medicine Group Project Leader
2016-2021	McMaster University Medical School clinical skills preceptor
2016-2020	McMaster University Health Science (HTHSCI 4A09 A/B) 4th Year Thesis assistant supervisor

2016	McMaster University Health Science (HTHSCI 4B06 A/B) Senior Project assistant supervisor
2016	McMaster Medical School Admissions Evaluator
2013-2016	Chair of Orthopaedic Surgery Interest Group
2013-2014	McMaster Orientation Week chair
2012-2013	Physics, math and chemistry tutor
2011-2013	Analytical chemistry researcher

Additional Distinction

August 2022	O-1 classification for individuals with extraordinary ability or achievement, U.S. Citizenship and Immigration Services.
-------------	--