

CURRICULUM VITAE

Nicolas O Noiseux

319-471-3805

1. Education/Post Graduate Education/Certification/Fellowship

Education

1996 BSc - McGill University, Montreal, Canada
2000 **MDCM (Medicine) - McGill University, Montreal, Canada**
2008 **MS (Clinical and Translational Science) - Mayo Clinic, Rochester, Minnesota, United States**

Post Graduate

2000 - 2005 **Resident** - McGill University, Montreal, Canada
2005 - 2006 Postdoctoral **Fellow (Research Fellowship)** in Orthopaedic Surgery) - Mayo Clinic, Rochester, Minnesota (David Lewallen – director)
2006 - 2007 **Fellow (Clinical Fellowship, Adult Hip and Knee Reconstruction)** - Mayo Clinic, Rochester, Minnesota (David Lewallen – director)

Certifications

2019 - 2029 American Board of Orthopaedic Surgeons Re-certification,
American Board of Orthopaedic Surgeons
2005 - Present Canadian Board/Fellowship Examination in Orthopaedic Surgery (FRCSC)
2009 American Board of Orthopaedic Surgeons ABOS Certification

2. Faculty Involvement

2007 - Present Resident Educator (3 residents on adult reconstruction service, 3 residents at VA, per 2-month rotation). **University of Iowa/VA**
2022 - Present Fellow Educator (1 fellow on adult reconstruction service). **University of Iowa**
2020 **Course Director** – MAOA Annual Meeting pre-course. Mid-America Orthopedics Association (MAOA)
2021 **Program Chair** – MAOA Annual Meeting Mid-America Orthopedics Association (MAOA)
2017 – Present Adult Hip Reconstruction Review Committee. AAOS
2014 – Present Adult Knee Reconstruction Review Committee. MAOA
2019 – Present Faculty - Fundamental Concepts of Primary Hip and Knee Arthroplasty for Orthopaedic Residents (AAOS, AAHKS, Knee Society/Hip Society)
2021 Faculty - AAOS Part II Oral Exam Prep Course

3. Visiting Professorships/ Invited Lectures

Invited Lectures

May 2004	University of Montreal P.O.E.S. Annual Research Day, Department of Orthopaedics, University of Montreal. <i>The Role of Anterior Hip Impingement in Acetabular Labral Tears</i> . Noiseux, NO (Presenter).
April 2008	NAON Conference, National Association of Orthopedic Nurses. <i>What's New in Total Knee Replacement?</i> Noiseux, NO (Presenter).
October 2008	Case Management: Care of Work-Related Injuries Conference, Iowa Case Workers Association. <i>Replace a Joint. Return to Work?</i> Noiseux, NO.
May 2011	IDA Annual Session, Iowa Dental Association. <i>Dental Prophylaxis for Total Joint Replacement Patients</i> . Noiseux, NO.
December 2011	Hawkeye Sports Medicine Symposium, University of Iowa Sports Medicine. <i>Unicompartmental Knee Arthroplasty in Active People</i> . Noiseux, NO.
February 2012	Healthcare Interest Group, University of Iowa - Carver College of Medicine. <i>Healthcare in Canada and in the USA</i> . Noiseux, NO.
March 2014	Bariatric Surgery Support Group, University of Iowa Hospitals and Clinics. <i>Joint Pain, Osteoarthritis and Joint Replacement: Relationships to Obesity</i> . Noiseux, NO.
March 2014	Acute Pain Didactic Series, Department of Anesthesia, University of Iowa Hospitals and Clinics. <i>Multi-Modal Peri-Operative Analgesia in Knee Replacement</i> . Noiseux, NO.
April 2014	Hot Topics in Orthopaedics, Smith & Nephew. <i>Metal Sensitivity in Total Joint Replacement</i> . Noiseux, NO.
April 2014	IOS Annual Meeting, Iowa Orthopaedic Society. <i>Partial Knee Arthroplasty: Who, When, How and Why?</i> Noiseux, NO.
April 2015	Hot Topics in Orthopaedics, Smith & Nephew. <i>Infection in Total Hip Arthroplasty</i> . Noiseux, NO.
April 2015	MAOA Annual Meeting, Mid-America Orthopaedic Association. <i>Lateral Uni Arthroplasty - Who is the Right Candidate?</i> Noiseux, NO.
March 2016	Surgical Nursing Conference, Surgical Nursing Association. <i>Rapid Recovery Protocols in Total Knee Arthroplasty</i> . Noiseux, NO.
April 2017	MAOA/ICJR Pre-Meeting Course, International Congress for Joint Replacement/Mid-America Orthopedic Association, Amelia Island, Florida. <i>Causes of TKA Failure: How do we Find Them and Fix Them?</i> Noiseux, NO.
April 2017	MAOA/ICJR Pre-Meeting Course, International Congress for Joint Replacement/Mid-America Orthopedic Association, Amelia Island, Florida. <i>Multi-Modal Peri-Operative Analgesia in Total Knee Replacement: Assuring a Happy Patient</i> . Noiseux, NO.
April 2017	MAOA/ICJR Pre-Meeting Course, International Congress for Joint Replacement/Mid-America Orthopedic Association, Amelia Island, Florida. <i>UKA Unicompartmental Knee Arthroplasty: Who, When, How and Why?</i> Noiseux, NO.

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- February 2018 10th Annual Joint Replacement Fellows Symposium, Pfeedler Enterprises, Vail, Colorado. *Knee Anatomy and its Effects on Kinematics*. Noiseux, NO.
- February 2018 10th Annual Joint Replacement Fellows Symposium, Pfeedler Enterprises, Vail, Colorado. *Managing Bone Loss in Revision TKA*. Noiseux, NO.
- February 2018 10th Annual Joint Replacement Fellows Symposium, Vail, Colorado. *Porous Metals in Revision THA*. Noiseux, NO.

Spotlight Lecture

- April 2019 MAOA Annual Meeting, Mid-America Orthopaedic Association, Destin, Florida United States. **Spotlight Lecture: Metal Reactions and Sensitivity in Total Joint Replacements**. Noiseux, NO.

Invited Panel

- April 2017 MAOA/ICJR Pre-Meeting Course, International Congress for Joint Replacement/Mid-America Orthopedic Association, Amelia Island, Florida. **Complex TKA Cases: Panel Discussion**. Noiseux, NO, Trousdale, R, Barnes, L, Sporer, S, Hendricks, K, Anderson, D.
- April 2019 MAOA Annual Meeting, Mid-America Orthopaedic Association, Destin, Florida United States. **Ask the Experts and Open Case Discussions**. *Topic: From Native Septic Joints to Chronic PJI*. Noiseux, NO, Abdel, M, Hartman, C, Keeney, J.

Webinar

- May 2015 UHC Web Conference. *Leveraging Resources To Achieve Excellence in Patient Blood Management*. Noiseux, NO, Todd, M, Avdic, A.

4. Professional Employment/Teaching Affiliations

- 2007 - 2016 **Clinical Assistant Professor**, Orthopaedic Surgery
University of Iowa Department of Orthopedics and Rehabilitation, Iowa City, Iowa
- 2012 - Present Staff Physician
Iowa City Veterans Administration Medical Center, Iowa City, Iowa, United States
- 2016 – 2022 **Clinical Associate Professor**, Orthopedic Surgery
University of Iowa Department of Orthopedics and Rehabilitation, Iowa City, Iowa, United States
- 2017 – Present **Vice Chair for Clinical Affairs**, Department of Orthopedics and Rehabilitation, University of Iowa
- 2023 – Present **Professor**, Orthopedic Surgery
University of Iowa Department of Orthopedics and Rehabilitation, Iowa City, Iowa, United States

Teaching Responsibilities

Classroom, Seminar, Teaching Laboratory

- Spring 2011 - Spring 2012 Foundations of Clinical Practice II: CBL II (100%)
Small Group. Carver College of Medicine, Ulowa

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Fall 2009 - Fall 2012	Foundations of Clinical Practice I: CBL I (100%) <i>Small Group</i> . Carver College of Medicine, Ulowa
Spring 2008 - Present	Foundations of Clinical Practice IV <i>Non-Pharmacologic Approach to Osteoarthritis</i> . Carver College of Medicine, Ulowa
Fall 2008 - Present	Biological Response of Bone to Orthopaedic Implants
Fall 2008 - Present	Bone Blood Supply: AVN and Fracture Healing
Fall 2008 - Present	Complex THA Reconstruction Cases
Fall 2008 - Present	Dislocation After Total Hip Arthroplasty
Fall 2008 - Present	Revision TKA cases
Fall 2010 - Present	UKA cases
Spring 2013 - Present	Hip Arthritis and Total Hip Arthroplasty
Fall 2014 - Present	Infection (PJI) in Total Hip Replacement
Fall 2014 - Present	Metal Sensitivity in Total Joint Replacement
Fall 2014 - Present	Partial Knee Arthroplasty: Who, When, How and Why?

Clinical Teaching

Fall 2007 - Fall 2008	Foundations of Clinical Practice III: Physical Findings (100%). Carver College of Medicine, Ulowa
Spring 2009 - Summer 2009	Foundations of Clinical Practice II: Physical Exam Skills (100%). Carver College of Medicine, Ulowa
Fall 2008 - Present	Physical Exam of the Hip and Knee
Spring 2013 - Present	Surgical Skills Month for Orthopaedic Surgery R1s <i>Hip Arthroplasty Day</i>

Institutional Conferences, Grand Rounds, Journal Clubs, Etc.

August 2007 - Present	Selected Arthroplasty Topics <i>Monday and Tuesday Morning Orthopaedic Surgery Resident Teaching Conference (bi-annual cycle)</i>
January 2008 -	Arthroplasty Rounds

4. Peer-Reviewed Articles

1. Tanzer M, Noiseux N. Osseous Abnormalities and Early Osteoarthritis, The Role of Hip Impingement, CLIN ORTHOP AND RELAT RES. 2004 December;429:170-177. PMID:15577483.
2. Khan FA, Koff MF, Noiseux NO, Bernhardt KA, O'Byrne MM, Larson DR, Amrami KK, Kaufman KR. Effect of Local Alignment on Compartmental Patterns of Knee Osteoarthritis., J BONE JOINT SURGERY AM. 2008 September;90(9):1961-1969. PMID:18762657.
3. Herickhoff PK, Johnston RC, Marsh JL, Clark CR, Noiseux N. Primary hip and knee replacement: "are we all operating on the same patients, even at the same institution?", IOWA ORTHOP J. 2010;30:109-14. PMID:21045982.
4. Judd KT, Noiseux N. Concomitant Infection and Local Metal Reaction in Patients Undergoing Revision of Metal-on-Metal Total Hip Arthroplasty., IOWA ORTHOP J. 2011;31:59-63. PMID:22096421.
5. Rakel BA, Blodgett NP, Zimmerman MB, Logsden-Sackett N, Clark CR, Noiseux NO, Callaghan JJ, Herr K, Geasland K, Yang X, Sluka KA. Predictors of Postoperative Movement and Resting Pain Following Total Knee Arthroplasty, PAIN. 2012 November 01;153(11):2192-2203. PMID:22840570.
6. Nystrom LM, Wyatt CM, Noiseux NO. Arthroplasty Infection by Propionibacterium Granulosum Treated with Reimplantation Despite Ongoing Purulent-appearing Fluid Collection., J ARTHROPLASTY. 2013 January;28(1):198. e5-8. PMID:22552222.
7. Ouellet JA, Richards C, Sardar Z, Giannitsios D, Noiseux N, Strydom W, Reindl R, Jarzem P, Arlet V, Steffen T. Finite Element Analysis and Biomechanical Comparison of Short Posterior Spinal Instrumentation with Divergent Bridge Construct versus Parallel Tension Band Construct for Thoracolumbar Spine Fractures., GLOBAL SPINE J. 2013 June;3(2):85-94. PMID:24436856.
8. Haasper C, Buttaro M, Noiseux NO, et al. Irrigation and Debridement, J ORTHOP RES. 2014 January;32(Suppl 1):S130-5. PMID:24464886.
9. Noiseux NO, Long WJ, Mabry TM, Hanssen AD, Lewallen DJ. Uncemented Porous Tantalum Acetabular Components: Early Follow-Up and Failures in 613 Primary Total Hip Arthroplasties, J ARTHROPLASTY. 2014 March;29(3):617-20. PMID:23993435.
10. Noiseux NO, Callaghan JJ, Clark CR, Zimmerman MB, Sluka KA, Rakel BA. Preoperative Predictors of Pain Following Total Knee Arthroplasty, J ARTHROPLASTY. 2014 July;29(7):1383-7. PMID:24630598.
11. Miller BJ, Callaghan JJ, Cram P, Karam M, Marsh JL, Noiseux NO. Changing Trends in the Treatment of Femoral Neck Fractures: A Review of the American Board of Orthopaedic Surgery Database, JBJs (Am). 2014 September 3;96(17):e149. PMID:25187593.
12. Rakel BA, Zimmermen MB, Geasland K, Embree J, Clark CR, Noiseux NO, Callaghan JJ, Herr K, Walsh D, Sluka KA. Transcutaneous electrical nerve stimulation for the control of pain during rehabilitation after total knee arthroplasty: A randomized, blinded, placebo-controlled trial., PAIN. 2014 December;155(12):2599-611. PMID:25270585.

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13. Martin CT, Heiner AD, Baer TE, Pugely AJ, Noiseux NO. Protrusion After Medial Acetabular Wall Breach in Total Hip Arthroplasty., IOWA ORTHOP J. 2015 January 1;35:99-107. PMID:26361450.
14. Callaghan JJ, Pugely A, Liu S, Noiseux N, Willenborg M, Peck D. Measuring Rapid Recovery Program Outcomes: Are All Patients Candidates for Rapid Recovery, J ARTHROPLASTY. 2015 April 1;30(4):531-532. PMID:25702594.
15. Long WJ, Noiseux NO, Mabry TM, Hanssen AD, Lewallen DG. Uncemented Porous Tantalum Acetabular Components: Early Follow-up and Failures in 599 Revision Total Hip Arthroplasties, IOWA ORTHOP J. 2015 June 12;35:108-113. PMID:26361451.
16. Duchman KR, Gao Y, Pugely AJ, Martin CT, Noiseux NO, Callaghan JJ. The Effect of Smoking on Short-Term Complications Following Total Hip and Knee Arthroplasty, JBJS (Am). 2015 July 01;97(13):1049-58. PMID:26135071.
17. Fang M, Noiseux N, Linson E, Cram P. The Effect of Advancing Age on Total Joint Replacement Outcomes, GERIATRIC ORTHOPAEDIC SURGERY AND REHABILITATION. 2015 September 1;6(3):173-9. PMID:26328232.
18. Warth LC, Noiseux NO, Hogue MH, Klaassen AL, Liu SS, Callaghan JJ. Risk of Acute Kidney Injury After Primary and Revision Total Hip Arthroplasty and Total Knee Arthroplasty Using a Multimodal Approach to Perioperative Pain Control Including Ketorolac and Celecoxib., J ARTHROPLASTY. 2016 January;31(1):253-55. PMID:26377377.
19. Holt JB, Miller BJ, Callaghan JJ, Clark CR, Willenborg MD, Noiseux NO. Minimizing Blood Transfusion in Total Hip and Knee Arthroplasty Through a Multimodal Approach., J ARTHROPLASTY. 2016 February;31(2):378-82. PMID:26391927.
20. Gholson JJ, Shah AS, Gao Y, Noiseux NO. Morbid Obesity and Congestive Heart Failure Increase Operative Time and Room Time in Total Hip Arthroplasty., J ARTHROPLASTY. 2016 April;31(4):771-5. PMID:26654486.
21. Phruetthiphath OA, Gao Y, Vasta S, Zampogna B, Piperno A, Noiseux NO. Preoperative Risk Factors for, and Incidence of Delayed Surgery in Elective Primary Total Knee Arthroplasty After Hospital Admission: The ACS-NSQIP., J ARTHROPLASTY. 2016 July 1;31(7):1413-6. PMID:26994648.
22. Frey-Law LA, Bohr N, Sluka KA, Herr K, Clark CR, Noiseux NO, Callaghan JJ, Zimmerman MB, Rakel BA. Pain sensitivity profiles in patients with advanced knee osteoarthritis, PAIN. 2016 September;157(9):1988-1999. PMID:27152688.
23. Glass NA, Segal NA, Callaghan JJ, Clark CR, Noiseux NO, Gao Y, Johnston R. Comparison of the extent to which total hip and total knee arthroplasty restore patient-reported physical function, OSTEOARTHRITIS CARTILAGE. 2016 November;24(11):1875-1882. PMID:27349459.
24. Bailin S, Noiseux NO, Pottinger JM, Johannsson B, Haleem A, Johnson S, Herwaldt LA. Screening Patients Undergoing Total Hip or Knee Arthroplasty with Perioperative Urinalysis and the Effect of a Practice Change on Antimicrobial Use., INFECT CONTROL HOSP EPIDEMIOL. 2017 March 01;38(3):281-286. PMID:27869063.
25. Hadlandsmayth KH, Sabic E, Zimmerman MB, Sluka KA, Herr KA, Clark CR, Noiseux NO, Callaghan JJ, Geasland KM, Embree JL, Rakel BA. Relationships among pain intensity, pain-related distress, and psychological distress in pre-surgical total knee arthroplasty patients: a secondary analysis. PSYCHOLOGY, HEALTH & MEDICINE. 2017 June 01;22(5):552-563. PMID:27216314.

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26. Gholson JJ, Noiseux NO, Otero JE, Gao Y, Shah AS. Patient Factors Systematically Influence Hospital Length of Stay in Common Orthopaedic Procedures., IOWA ORTHOP J. 2017 June 15;37:233-237. PMID:28852363.
27. Tofte JN, Holte AJ, Noiseux NO. Popliteal (Baker's) Cysts in the Setting of Primary Knee Arthroplasty., IOWA ORTHOP J. 2017 June 15;37:177-180. PMID:28852354.
28. Day MA, Duchman KR, Noiseux NO. Traumatic Obturator Dislocation Following Total Hip Arthroplasty Managed with Closed Reduction: A Case Report and Review of the Literature., JBJS CASE CONNECT. 2017 July;7(3):66. PMID:29356706.
29. Holte AJ, Tofte JN, Dahlberg GJ, Noiseux N. Use of 2-Octyl Cyanoacrylate Adhesive and Polyester Mesh for Wound Closure in Primary Knee Arthroplasty. ORTHOPEDICS. 2017 Sep 1;40(5):e784-e787. PMID: 28598492
30. McDanel DL, Azar AE, Dowden AM, Murray-Bainer S, NOISEUX NO, Clark CR, Willenborg M, Callaghan JJ, Haleem A. Screening for Beta-Lactam Allergy in Joint Arthroplasty Patients to Improve Surgical Prophylaxis Practice., J ARTHROPLASTY. 2017 Sep;32(9S):S101-S108. PMID: 28236547
31. Cooper NA, Rakel BA, Zimmerman B, Tonelli SM, Herr KA, Clark CR, Noiseux NO, Callaghan JJ, Sluka KA. Predictors of multidimensional functional outcomes after total knee arthroplasty., J ORTHOP RES. 2017 December;35(12):2790-2798. PMID:28471509.
32. Day MA, Anthony CA, Bedard NA, Glass NA, Clark CR, Callaghan JJ, Noiseux NO. Increasing Perioperative Communication with Automated Mobile Phone Messaging in Total Joint Arthroplasty., J ARTHROPLASTY. 2018 January;33(1):19-24. PMID:29017803.
33. Noiseux NO. The Two-Incision and Mini-Posterior Approaches for Total Hip Arthroplasty Did Not Differ in Terms of Outcomes at More Than Eight Years., JBJS (Am). 2018 February 21;100(4):346-347. PMID:29462041.
34. Hadlandsmyth K, Zimmerman B, Wajid R, Sluka K, Herr K, Clark CR, Noiseux NO, Callaghan JJ, Rakel BA. Longitudinal Postoperative Course of Pain and Dysfunction Following Total Knee Arthroplasty, CLIN J PAIN. 2018 April;34(4):332-338. PMID:28731957.
35. Kohler J, Glass N, Noiseux NO, Callaghan JJ, Miller BJ. Might Doctors Really "Know Best"? Utilizing Surgeon Intuition to Strengthen Preoperative Surgical Risk Assessment., IOWA ORTHOP J. 2018 June 15;38:203-208. PMID:30104946.
36. Shinozaki G, Chan AC, Sparr NA, Zarei K, Gaul LN, Heinzman JT, Robles J, Yuki K, Chronis TJ, Ando T, Wong T, Sabbagh S, Weckmann MT, Lee S, Yamada T, Karam MD, Noiseux NO, Shinozaki E, Cromwell JW. Delirium detection by a novel bispectral electroencephalography device in general hospital., PSYCHIATRY CLIN NEUROSCI. 2018 December;72(12):856-863. PMID:30246448.
37. Troester AM, Hendrickson NR, Glass NA, Bedard NA, Noiseux NO. Overlapping Surgery in Primary Total Knee Arthroplasty: Are 6-Week Complications Worse than Single Operating Room Scheduling?, IOWA ORTHOP J. 2019;39(1):29-35. PMID: 31413671
38. Hadlandsmyth K, Dindo LN, St. Marie BJ, Wajid R, Embree JL, Noiseux NO, Tripp-Reimer T, Zimmerman MB, Rakel BA. Patient-Reported Outcomes Measurement Information System (PROMIS) Instruments: Reliability and Validity in Veterans Following Orthopedic Surgery. EVAL HEALTH PROF. 2020 Dec;43(4):207-212. PMID: 31195828

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39. Holte AJ, Carender CN, Noiseux NO, Otero JE, Brown TS. Restrictive Opioid Prescribing Protocols Following Total Hip Arthroplasty and Total Knee Arthroplasty Are Safe and Effective., J ARTHROPLASTY. 2019 February 20. PMID:30890390.
40. Shinozaki G, Bormann NL, Chan AC, Zarei K, Sparr NA, Klisares MJ, Jellison SS, Heinzman JT, Dahlstrom EB, Duncan GN, Gaul LN, Wanzek RJ, Cramer EM, Wimmel CG, Sabbagh S, Yuki K, Weckmann MT, Yamada T, Karam MD, Noiseux NO, Shinozaki E, Cho HR, Lee S, Cromwell JW. Identification of Patients With High Mortality Risk and Prediction of Outcomes in Delirium by Bispectral EEG., J CLIN PSYCHIATRY. 2019 Sep 3;80(5):19m12749. PMID: 31483958
41. Owens J, Otero JE, Noiseux NO, Springer BD, Martin JR. Risk Factors for Post-Operative Blood Transfusion Following Total Knee Arthroplasty. IOWA ORTHOP J. 2020;40(1):69-73. PMID:32742211.
42. Compton J, Owens J, Otero JO, NOISEUX NO, Brown TS. Extramedullary Guide Alignment Is Not Affected by Obesity in Primary Total Knee Arthroplasty, J Knee Surg. 2020 February. PMID:32018277.
43. Loftus RW, Dexter F, Goodheart MJ, McDonald M, Keech J, Noiseux N, Pugely A, Sharp W, Sharafuddin M, Lawrence WT, Fisher M, McGonagill P, Shanklin J, Skeete D, Tracy C, Erickson B, Granchi T, Evans L, Schmidt E, Godding J, Brenneke R, Persons D, Herber A, Yeager M, Hadder B, Brown JR. The Effect of Improving Basic Preventive Measures in the Perioperative Arena on Staphylococcus aureus Transmission and Surgical Site Infections: A Randomized Clinical Trial. JAMA NETW OPEN. 2020 Mar 2;3(3):e201934. PMID: 32219407
44. Warth LC, NOISEUX NO, Duncan ST, Daines SB, Mahoney CR. How Has COVID-19 Affected Our Orthopedic Implant Industry Partners? Implications for the Surgeon-Industry Relationship in 2020 and Beyond., J ARTHROPLASTY. 2020 Jul;35(7S):S56-S59 PMID:32386882.
45. Carender CN, DeMik DE, Otero JE, Noiseux NO, Brown TS, Bedard NA. What is the Clinical Utility of Synovial Alpha Defensin Testing of Antibiotic Spacers Before Reimplantation?, J ARTHROPLASTY. 2021 Jun;36(6):2150-2157. PMID:33648841.
46. Hart AA, DeMik DE, Brown TS, Noiseux NO. Routine Radiographs After Total Joint Arthroplasty: Is There Clinical Value?, J ARTHROPLASTY. 2021 Jul;36(7):2431-2434. PMID:33714635.
47. Carender CN, DeMik DE, Glass NA, Noiseux NO, Brown TS, Bedard NA. Do Extended Oral Postoperative Antibiotics Prevent Early Periprosthetic Joint Infection in Morbidly Obese Patients Undergoing Primary Total Joint Arthroplasty?, J ARTHROPLASTY. 2021 Aug;36(8):2716-2721. PMID:33781639.
48. Trinh JQ, Carender CN, An Q, Noiseux NO, Otero JE, Brown TS. Resilience and Depression Influence Clinical Outcomes Following Primary Total Joint Arthroplasty., J ARTHROPLASTY. 2021 May;36(5):1520-1526. PMID:33334640.
49. Halbur CR, Gulbrandsen TR, West CR, Brown TS, Noiseux NO. Weight-Based Aspirin Dosing May Further Reduce the Incidence of Venous Thromboembolism Following Primary Total Joint Arthroplasty. J ARTHROPLASTY. 2021 Dec;36(12):3986-3992. PMID: 34215460.
50. Yamanashi T, Marra PS, Crutchley KJ, Wahba NE, Malicoat JR, Sullivan EJ, Akers CC, Nicholson CA, Herrmann FM, Karam MD, Noiseux NO, Kaneko K, Shinozaki E, Iwata M, Cho HR, Lee S, Shinozaki G. Mortality among patients with sepsis associated with a bispectral electroencephalography (BSEEG) score. SCI REP. 2021 Jul 9;11(1):14211. PMID: 34244577

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51. DeMik DE, Carender CN, Glass NA, Noiseux NO, Brown TS, Bedard NA. Are Morbidly Obese Patients Equally Benefitting From Care Improvements in Total Hip Arthroplasty? J ARTHROPLASTY. 2022 Mar;37(3):524-529. PMID: 34883253
52. Anthony CA, Rojas E, Glass N, Keffala V, Noiseux NO, Elkins J, Brown TS, Bedard NA. A Psychological Intervention Delivered by Automated Mobile Phone Messaging Stabilized Hip and Knee Function During the COVID-19 Pandemic: A Randomized Controlled Trial. J ARTHROPLASTY. 2022 Mar;37(3):431-437. PMID: 34906660
53. Yamanashi T, Crutchley KJ, Wahba NE, Sullivan EJ, Comp KR, Kajitani M, Tran T, Modukuri MV, Marra PS, Herrmann FM, Chang G, Anderson ZM, Iwata M, Kobayashi K, Kaneko K, Umeda Y, Kadooka Y, Lee S, Shinozaki E, Karam MD, Noiseux NO, Shinozaki G. Evaluation of point-of-care thumb-size bispectral electroencephalography device to quantify delirium severity and predict mortality. BR J PSYCHIATRY. 2021 Aug 2:1-8. PMID: 35049468
54. Carender CN, Anthony CA, Rojas EO, Noiseux NO, Bedard NA, Brown TS. Perioperative Opioid Counseling Reduces Opioid Use Following Primary Total Joint Arthroplasty. IOWA ORTHOP J. 2022 Jun;42(1):169-177. PMID: 35821950
55. Patient Resilience Influences Opioid Consumption in Primary Total Joint Arthroplasty Patients. Trinh JQ, Carender CN, An Q, Noiseux NO, Otero JE, Brown TS. IOWA ORTHOP J. 2022; 42(2):112-117. PMID: 36601223
56. Presence of a Lateral Trochlear Osteophyte Predicts Medial Unicompartamental Arthroplasty Failure at Midterm Follow-up. Carender CN, Rand DR, DeMik DE, An Q, Noiseux NO. ARTHROPLAST TODAY. 2022 Nov 29;19 PMID: 36465693
57. What Is the Fate of Total Joint Arthroplasty Patients Who Are Asked to Quit Smoking Prior to Surgery? Paulsen K, Carender CN, Noiseux NO, Elkins JM, Brown TS, Bedard NA. ARTHROPLAST TODAY. 2023 Jan 14;19. PMID: 36691461

5. Non-Peer-Reviewed Articles

Review

1. Noiseux NO. Web Commentary on "Fixation of a Trabecular Metal Knee Arthroplasty Component. A Prospective Randomized Study", JBJS (Am). 2009;91.

Commentary

2. Noiseux NO. Evidence-Based Orthopaedics Commentary on "The Two-Incision and Mini-Posterior Approaches for Total Hip Arthroplasty Did Not Differ in Terms of Outcomes at More Than Eight Years", JBJS (Am). 2018 February 21;100(4):346-7. PMID:29462041.

Conference Proceeding

3. Fixing "pistol grip" deformity may erase need for new hip, The Medical Post. 2003 March 18;38(11).

Electronic Publication

4. Avdic A, Nancy K, Denise P, Noiseux NO. Getting Practical About Improving Quality. MedEdPORTAL iCollaborative. 2014.

6. Textbook Chapters

1. Lewallen DG, Noiseux NO. Chapter 42: Total Hip Arthroplasty Complications: Dislocation. *OKU Hip and Knee Reconstruction*. 2005.
2. Noiseux NO, Nystrom LM. Chapter 63. Case Presentations: Extensively Porous-Coated, Cylindrical Stems. *Techniques in Revision Hip and Knee Arthroplasty*. 1st. Edited by: Scuderi GR, Elsevier Saunders. 2014. p. 492-4.
3. Noiseux NO, Nystrom LM. Chapter 64. Surgical Techniques: Extensively Porous-Coated, Cylindrical Stems. *Techniques in Revision Hip and Knee Arthroplasty*. 1st. Edited by: Scuderi GR, Elsevier Saunders. 2014. p. 495-8.
4. Noiseux, NO, Owens, JM: Lesson 24 - Implant Choice and Level of Constraint in Revision TKA, in Incavo SJ, ed: *Surgical Insights: Total Knee Arthroplasty* [online course]. Rosemont, IL American Academy of Orthopaedic Surgeons, 2019.
5. Noiseux, NO, Owens, JM: Case Study for Lesson 24 - Revision TKA, in Incavo SJ, ed: *Surgical Insights: Total Knee Arthroplasty* [online course]. Rosemont, IL American Academy of Orthopaedic Surgeons, 2019.

7. Regional and Local Scientific Presentations

Conference Presentation

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| June 2004 | Quebec Orthopaedic Association Annual Scientific Symposium. "The Role of Anterior Hip Impingement in Acetabular Labral Tears.". Noiseux, NO. |
| April 2014 | MAOA Annual Meeting. <i>Has Best Available Evidence Changed the Treatment of Femoral Neck Fractures? A Look at ABOS Part 2 Examinees</i> . Miller, BJ, Noiseux, NO, Karam, M, Marsh, JL, Callaghan, JJ. |
| April 2014 | MAOA Annual Meeting. <i>Predictors of Pain in Total Knee Arthroplasty</i> . Noiseux, NO, Callaghan, JJ, Clark, CR, Zimmerman, MB, Sluka, KA, Rakel, BA. |
| April 2014 | MAOA Annual Meeting. <i>Risk of Acute Kidney Injury After Primary and Revision THA and TKA Using a Multimodal Approach to Peri-Operative Pain Control Including Ketorolac and Celecoxib</i> . Warth, LC, Noiseux, NO, Callaghan, JJ, Klaassen, A, Liu, S. |
| April 2015 | MAOA Annual Meeting, Mid-America Orthopaedic Association. <i>The Impact of Obesity on Operative Times in Orthopedic Surgery</i> . Gholson, JJ, Noiseux, NO, Gao, Y, Shah, AS. |
| April 2015 | MAOA Annual Meeting, Mid-America Orthopaedic Association. <i>Total Joint Arthroplasty in Patients with Chronic Renal Disease: Is It Worth the Risk?</i> Warth, LC, Pugely, AJ, Martin, CT, Gao, Y, Noiseux, NO, Callaghan, JJ. *Carl L. Nelson Award winning paper. |
| April 2015 | MAOA Annual Meeting, Mid-America Orthopaedic Association. <i>Modular Shell Metal-on-Metal Bearings in THR: As Bad as Monolithic? As Good as Polyethylene?</i> Greiner, JJ, Callaghan, JJ, Bedard, NA, Stefl, M, Liu, SS, Goetz, DD, Mahoney, CR, Noiseux, NO. |

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- April 2015 MAOA Annual Meeting, Mid-America Orthopaedic Association. *Surgeon-Directed Management of Quality Indicators in Total Joint Arthroplasty: Optimizing Quality*. Noiseux, NO, Callaghan, JJ, Clark, CR, Willenborg, MD, Krutzfield, N, Avdic, A.
- April 2015 MAOA Annual Meeting, Mid-America Orthopaedic Association. *What Can and Can't Be Learned from Long-Term Follow-Up Studies of Hip Replacement*. Martin, CR, Callaghan, JJ, Warth, LC, Liu, SS, Goetz, DD, Pugely, AJ, Noiseux, NO, Gao, Y, Johnston, RC.
- April 2016 MAOA Annual Meeting, Mid-America Orthopaedic Association, Bonita Springs, Florida. *Can We Predict Discharge Status After Total Joint Arthroplasty? A Simple Calculator to Predict Home Discharge*. Noiseux, NO, Pugely, A, Anthony, C, Bedard, N, Martin, C, Gao, Y, Callaghan, JJ.
- April 2019 MAOA Annual Meeting, Mid-America Orthopaedic Association, Destin, Florida. *Obesity and Tibial Coronal Plane Alignment in Primary Total Knee Arthroplasty*. Compton, J, Owens, J, Otero, J, Noiseux, NO, Brown, T.
- April 2019 MAOA Annual Meeting, Mid-America Orthopaedic Association, Destin, Florida. *Anxiety and Depression Predict Chronic Postoperative Opioid Use in Total Joint Arthroplasty: A Systematic Review*. Lindsay, C, Holte, A, Noiseux, NO, Otero, J, Brown, T.
- April 2019 MAOA Annual Meeting, Mid-America Orthopaedic Association, Destin, Florida. *Instituting a Restrictive Opioid Prescribing Protocol for Primary Total Hip and Knee Arthroplasty: One Institution's Experience*. Holte, A, Carendar, C, Otero, J, Noiseux, NO, Brown, T.
- October 2021 MAOA Annual Meeting, Mid-America Orthopaedic Association, Amelia Island, Florida. *What is the Clinical Utility of Synovial Alpha-Defensin Testing of Antibiotic Spacers Prior to Reimplantation?*. Carendar, C, Henrichsen, J, DeMik, D, Otero, J, Noiseux, NO, Brown, T, Bedard N.
- October 2021 MAOA Annual Meeting, Mid-America Orthopaedic Association, Amelia Island, Florida. *No Benefit to Extended Oral Antibiotic Prophylaxis Following Total Joint Arthroplasty in the Morbidly Obese*. Carendar, C, DeMik, D, Glass, N, Noiseux, NO, Brown, T, Bedard N.
- October 2021 MAOA Annual Meeting, Mid-America Orthopaedic Association, Amelia Island, Florida. *Resilience Influences Perioperative Opioid Consumption In Joint Arthroplasty Patients*. Trinh, J, Carendar, C, An, Q, Otero, J, Noiseux, NO, Brown, T.
- October 2021 MAOA Annual Meeting, Mid-America Orthopaedic Association, Amelia Island, Florida. *Perioperative Counseling Reduces Opioid Use Following Joint Arthroplasty*. Carendar, C, Anthony, C, Rojas, E, Noiseux, NO, Bedard N, Brown, T.
- April 2022 MAOA Annual Meeting, Mid-America Orthopaedic Association, San Antonio, Texas. *Effect of Dedicated Surgical Staff on Operative Time and Turnover in Elective Total Joint Arthroplasty*. Cardinal, J, An, Q, Noiseux, NO, Brown, T.
- April 2022 MAOA Annual Meeting, Mid-America Orthopaedic Association, San Antonio, Texas. *Predictors of Native Joint Septic Arthritis in the Setting of Crystalline Arthropathy*. Henrichsen, J, Skalitzky, MK, Kesler, K, Noiseux, NO.

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- April 2022 MAOA Annual Meeting, Mid-America Orthopaedic Association, San Antonio, Texas. *The Effect of Surgical Staff Intraoperative Turnover on Operative Times and Complication Rates for Elective Total Joint Arthroplasty*. Cardinal, J, An, Q, Noiseux, NO, Brown, T.
- April 2022 MAOA Annual Meeting, Mid-America Orthopaedic Association, San Antonio, Texas. *Identifying Total Joint Arthroplasty Patients at Risk for Active Dental Infection*. Kohler, J, Russell, M, Glass, N, Bedard, N, Noiseux, NO, Elkins, J, Brown, T.
- April 2022 MAOA Annual Meeting, Mid-America Orthopaedic Association, San Antonio, Texas. *Mid-Term Survivorship and Predictors of Failure of Medial Mobile Bearing Unicompartmental Knee Arthroplasty*. Carender, C, Rand, D, DeMik, D, An, Q, Noiseux, NO.

8. National and International Scientific Presentations

Conference Presentation

- June 2004 Canadian Orthopaedic Association Annual Meeting. *"The Role of Anterior Hip Impingement in Acetabular Labral Tears."* Noiseux, NO.
- June 2005 Canadian Orthopaedic Residents Association Annual Meeting. *"Bridge vs. Tension Band Construct for Spinal Fracture Fixation: A Biomechanical Analysis."* Noiseux, NO.
- June 2006 Canadian Orthopaedic Association Annual Meeting. *"Anterior Hip Impingement-A Precursor to Labral Tears."* Noiseux, NO.
- June 2006 Canadian Orthopaedic Association Annual Meeting. *"Bridge vs. Tension Band Construct for Spinal Fracture Fixation: A Biomechanical Analysis."* Noiseux, NO.
- February 2007 Joint Arthroplasty Young Investigators' Conference (JAYIC) at AAOS. *"Bilateral Hip Resurfacings Complicated by a Dislocation During Postoperative Survey."* Noiseux, NO.
- February 2007 AAOS Annual Meeting. *"The Cup-Cage: Results of Porous Cup-Cage Construct in Cup-Cage Construct in Complex Acetabular Revision Surgery with Severe Bone Loss."* Noiseux, NO.
- February 2007 AAOS Annual Meeting. *"Uncemented Porous Tantalum Acetabular Components: Early Follow-up and Failures in 1212 Cases."* Noiseux, NO.
- June 2008 Canadian Orthopaedic Association Annual Meeting. *"The Effect of Sitting Pressure on Ischial Blood Flow in Spinal Cord Injured Patients vs. Non-Injured Controls."* Noiseux, NO.
- February 2009 AAOS Annual Meeting. *"The Effect of Sitting Pressure on Ischial Blood Flow in Spinal Cord Injured Patients vs. Non-Injured Controls."* Noiseux, NO.
- May 2009 American Pain Society Annual Meeting. *"Using Equianalgesic Conversions to Determine Analgesic Intake Post Total Knee Replacement"*. Blodgett, NP, Frantz, R, Herr, K, Sluka, KA, Clark, CR, Noiseux, NO.

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- March 2014 AAOS Annual Meeting. *Has Best Available Evidence Changed the Treatment of Femoral Neck Fractures? A Look at ABOS Part 2 Examinees.* Miller, BJ, Noiseux, NO, Karam, M, Marsh, JL, Callaghan, JJ.
- May 2014 Annual Meeting of the Association of Bone and Joint Surgeons (ABJS). *Preoperative Predictors of Pain Following Total Knee Arthroplasty.* Noiseux, NO, Callaghan, JJ, Clark, CR, Zimmerman, MB, Sluka, KA, Rakel, BA.
- November 2014 AAHKS Annual Meeting. *The Incidence of and Risk Factors for 30-day Surgical Site Infections following Primary and Revision Total Joint Arthroplasty.* Pugely, AJ, Martin, CT, Gao, Y, Noiseux, NO, Callaghan, JJ.
- November 2014 AAHKS Annual Meeting. *Total Joint Arthroplasty in Patients with Chronic Renal Disease: Is It Worth the Risk?* Warth, LC, Pugely, AJ, Martin, CT, Gao, Y, Noiseux, NO, Callaghan, JJ.
- March 2015 AAOS Annual Meeting. *Cementless Acetabular Component and Cross-linked Poly in Patients Under 50 at Minimum 10 Years.* Greiner, JJ, Bedard, N, Noiseux, NO, Gao, Y, Pedersen, DR, Goetz, DD, Liu, SS, Callaghan, JJ.
- March 2015 AAOS Annual Meeting. *The Impact of Obesity on Operative Time in Orthopaedic Surgery.* Gholson, JJ, Shah, A, Noiseux, NO.
- March 2015 AAOS Annual Meeting, AAOS. *Patient Factors Systematically Influence Hospital Length of Stay in Common Orthopaedic Procedures.* Gholson, JJ, Shah, A, Noiseux, NO.
- March 2015 AAOS Annual Meeting. *Total Joint Arthroplasty in Patients with Chronic Renal Disease: Is It Worth the Risk.* Pugely, AJ, Martin, CT, Gao, Y, Noiseux, NO, Callaghan, JJ.
- November 2016 AAHKS Annual Meeting. Dallas, Texas. *History of Beta-Lactam Allergy in Total Joint Patients: Are These Patients Really Allergic.* Noiseux, NO, McDanel, D, Haleem, A, Dowden, A, Willenborg, M, Clark, C, Callaghan, JJ.
- March 2019 AAOS Annual Meeting, American Academy of Orthopedic Surgeons, Las Vegas, Nevada. *Instituting a Restrictive Opioid Prescribing Protocol for Primary Hip and Knee Arthroplasty: One Institution's Experience.* Carendar, C, Holte, A, Noiseux, NO, Otero, J, Brown, T.
- September 2021 AAOS Annual Meeting, American Academy of Orthopedic Surgeons, San Diego, California. *Routine Radiographs After Total Joint Arthroplasty: Is There Clinical Value?* Demik D, Hart, A, Noiseux, NO.
- March 2022 AAOS Annual Meeting, American Academy of Orthopedic Surgeons, Chicago, Illinois. *What is the Fate of Total Joint Arthroplasty Patients who are Asked to Quit Smoking before Surgery?* Carendar, C, Paulsen, K, Glass, N, Noiseux, NO, Elkins, J, Bedard, N.

9. Peer-Reviewed Research Grants

Grant

Funded

A Prospective Investigation of Primary Total Knee Arthroplasty Rehabilitation Using A Smart Orthotic Versus Outpatient Physical Therapy

Departmental Funding (internal, orthopedic research funds)

July 01, 2021 - June 30, 2023

\$7,500

Noiseux, Nicolas (PI)

One Stage versus Two Stage For Periprosthetic Hip And Knee Infection

OREF Fare Grant

OrthoCarolina Research Institute/ Orthopaedic Research & Education Foundation

K237300-CG

July 01, 2017 - December 31, 2023

\$28,500 (up to, for site)

Noiseux, Nicolas (Site-PI)

Evaluating the Efficacy and Safety of Pregabalin in Joint Arthroplasty Patients with Central Sensitization

Anesthesia Research Institute, UIHC

January 01, 2022 - December 30, 2022

\$40,000

Noiseux, Nicolas (Co-PI with Lee Kral)

Completed

Implementation and Effectiveness of a S. Aureus Surgical Site Infection Prevention Protocol

NIH Agency for Healthcare Research and Quality

1 R18 HS022467-01

September 30, 2013 - September 29, 2016

Herwaldt, Loreen (Principal Investigator), Noiseux, Nicolas O (Collaborator)

Preventing Persistent Post-Surgical Pain & Opioid Use in Veterans: Effect of ACT

NIH NCCAM

1 R34 T008349-01

September 1, 2014 - June 30, 2016

\$339,750

Rakel, Barbara A (Principal Investigator), Noiseux, Nicolas O (Co-Investigator)

Delirium prediction and screening by non-invasive point-of-care device

The University of Iowa Research Foundation (UIRF) and the Office of the Vice President for Research & Economic Development (OVPR&ED)

2015 Commercialization GAP Fund

January 1, 2016 - December 30, 2016

\$57,500

Shinozaki, Gen (Principal Investigator), Noiseux, Nicolas (Co-Investigator)

OREF Resident Research Project Grant

OREF

July 1, 2013 - June 30, 2014

\$15,000

Martin, Christopher T (Principal Investigator), Noiseux, Nicolas O (Supervisor)

10. AOA Affiliations

2004	Resident Leadership Fortum Participant
2005-6	Emerging Leader
2007-present	Member

11. Membership/Leadership Positions

Memberships in Professional Organizations

American Academy of Orthopaedic Surgeons
American Association of Hip and Knee Surgeons
American Medical Association
American Orthopaedic Association
Canadian Orthopaedic Association
Iowa Medical Society
Iowa Orthopedic Society
Mid-America Orthopedic Association
Minnesota Orthopaedic Society

Leadership Positions/Professional Service

2021	MAOA Annual Meeting Program Chair
2020	MAOA Annual Meeting Pre-Course Director
2014-2017	MAOA Membership Committee

AAOS - Moderator of Scientific Paper Sessions

2014 - Present Adult Hip Program Committee

MAOA - Moderator of Scientific Paper Sessions

2011 - Present Adult Knee Program Committee

Member of Expert Consensus Panel

2015 AHRQ On the Cusp: Stop CAUTI Project

Reviewer

Clinical Orthopedics and Related Research
Journal of Bone and Joint Surgery (Am.)
Journal of Clinical Anatomy
Journal of Orthopaedic Research
Journal of Arthroplasty
Arthroplasty Today

University, College, Department Service

2007 - 2008	Anesthesia Presurgical Evaluation Clinic Taskforce of Pre/Post Implementation
2010 - 2014	Hospital New Product Evaluation Committee

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2008 - Present Resident Applicant Screening Committee
2008 - Present Resident Review Committee
2008 - 2018 Medical Student Admissions, Admissions Interviews
2014 - Present Clinic Access Committee, Chair
2014 - 2019 UIP Practice Management Committee
2014 - Present Department of Orthopaedics Cabinet, Vice Chair for Clinical Affairs
2014 - 2021 Health Information Management Subcommittee
2014 - Present OR Senior Advisory Committee Meeting, Alternate to DEO
2014 - 2019 Transfusion Subcommittee

National

2012 - 2015 HVHC Committee, Dartmouth, New Hampshire, Ortho Chair/SME for Hip and Knee

State

2014 - 2018 Mercy-CR/ UI Health Care ACO - Provider Executive Committee

12. Honors, Awards, Recognitions, Outstanding Achievements

2004 - 2005 Resident Teacher of the Year - McGill University
2006 Patrick J Kelly Visiting Professor Fellow Award Finalist - Mayo Clinic
2005 - 2007 Frank McGill Travel Fellowship - McGill University
2007 Vernon L. Nickel Award - Orthopaedic Rehabilitation Association
2017 Excellence in Quality Award - UI Physicians Clinical Awards

13. Community Service

Relevant Public or Community Involvement

International

2009 Mar-Apr Health Volunteers Overseas/Orthopedics Overseas Cameroon, Volunteer