

GEOFFREY WILKIN, MD FRCSC

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CURRENT APPOINTMENTS

Orthopaedic Surgeon <i>Orthopaedic Trauma & Hip Preservation</i> Division of Orthopaedic Surgery The Ottawa Hospital, Ottawa, ON, Canada	August 1, 2016 - Present
Assistant Professor <i>Division of Orthopaedic Surgery, Department of Surgery</i> Faculty of Medicine University of Ottawa, Ottawa, ON, Canada	August 1, 2016 - Present
Director, Trauma Panel <i>OSCE Examination Committee - Orthopaedic Surgery</i> Royal College of Physicians and Surgeons of Canada	April 2021 - Present

EDUCATION & TRAINING

Fellowship in Hip Preservation Surgery Hospital for Special Surgery, New York, NY, USA	2015 - 2016
Fellowship in Orthopaedic Trauma Hospital for Special Surgery, New York, NY, USA	2014 - 2015
Orthopaedic Surgery Residency University of Ottawa, Ottawa, ON, Canada	2009 - 2014
Doctor of Medicine (M.D.) Queen's University, Kingston, ON, Canada	2005 - 2009
Honours Bachelor of Kinesiology (Hon. B.Kin.) <i>Summa Cum Laude</i> McMaster University, Hamilton, ON, Canada	2001 - 2005

PROFESSIONAL CERTIFICATIONS & MEMBERSHIPS

Fellow of the Royal College of Surgeons of Canada (Orthopaedic Surgery)
Admitted: June, 2014

College of Physician & Surgeons of Ontario - Independent Practice Licence #90709
Registered: May 26, 2016

Medical Council of Canada - MCC Qualifying Exam, Parts 1 & 2

Canadian Orthopaedic Association - Active Member

AO Foundation - Faculty member

Orthopaedic Trauma Association - Active Member

Canadian Medical Association/Ontario Medical Association - Active Member

Ontario Orthopaedic Association - Active Member

PUBLICATIONS

Swift B, Stewart A, Grammatopoulos G, Papp S, **Wilkin G**, Liew A. COMPARING THE RATES AND MODES OF FAILURE OF TWO THIRD GENERATION CEPHALOMEDULLARY NAIL SYSTEMS IN THE TREATMENT OF INTERTROCHANTERIC HIP FRACTURES. *Injury*. 2022 Aug;53(8):2846-2852

Sanders E, Finless A, Adamczyk A, Dobransky J, **Wilkin G**, Gofton WT, Beaulé PE, Liew A, Papp S, Grammatopoulos G. OUTCOME AFTER OPEN REDUCTION INTERNAL FIXATION OF ACETABULAR FRACTURES IN THE ELDERLY. *J Orthop Trauma*. 2022 Mar 1;36(3):130-136

Neuman MD, Feng R, Ellenberg SS, Sieber F, Sessler DI, Magaziner J, Elkassabany N, Schwenk ES, Dillane D, Marcantonio ER, Menio D, Ayad S, Hassan M, Stone T, Papp S, Donegan D, Marshall M, Jaffe JD, Luke C, Sharma B, Azim S, Hymes R, Chin KJ, Sheppard R, Perlman B, Sappenfield J, Hauck E, Hoefl MA, Tierney A, Gaskins LJ, Horan AD, Brown T, Dattilo J, Carson JL; REGAIN (Regional versus General Anesthesia for Promoting Independence after Hip Fracture) Investigators*, **REGAIN (Regional versus General Anesthesia for Promoting Independence after Hip Fracture) Investigators**. PAIN, ANALGESIC USE, AND PATIENT SATISFACTION WITH SPINAL VERSUS GENERAL ANESTHESIA FOR HIP FRACTURE SURGERY : A RANDOMIZED CLINICAL TRIAL. *Ann Intern Med*. 2022 Jul;175(7):952-960

Neuman MD, Feng R, Carson JL, Gaskins LJ, Dillane D, Sessler DI, Sieber F, Magaziner J, Marcantonio ER, Mehta S, Menio D, Ayad S, Stone T, Papp S, Schwenk ES, Elkassabany N, Marshall M, Jaffe JD, Luke C, Sharma B, Azim S, Hymes RA, Chin KJ, Sheppard R, Perlman B, Sappenfield J, Hauck E, Hoefl MA, Giska M, Ranganath Y, Tedore T, Choi S, Li J, Kwofie MK, Nader A, Sanders RD, Allen BFS, Vlassakov K, Kates S, Fleisher LA, Dattilo J, Tierney A, Stephens-Shields AJ, Ellenberg SS; **REGAIN Investigators**. SPINAL ANESTHESIA OR GENERAL ANESTHESIA FOR HIP SURGERY IN OLDER ADULTS. *N Engl J Med*. 2021 Nov 25;385(22):2025-2035.

Neuman et al., **REGAIN investigators**. SPINAL ANESTHESIA OF GENERAL ANESTHESIA FOR HIP SURGERY IN OLDER ADULTS. *New England Journal of Medicine*. 385(22): 2025-2035, 2021

Howatt J, Liew A, **Wilkin GP**. PATELLA FRACTURES: ANATOMY, MECHANICS, AND SURGICAL MANAGEMENT. *Journal of Bone and Joint Surgery*. 103(23): 2237-2246, 2021

Slullitel PA, Grammatopoulos G, Smit K, Carsen S, **Wilkin G**, Rakhra KS, Beaulé PE. HIP JOINT PRESERVATION SURGERY: WHAT EVERY ORTHOPAEDIC PROVIDER NEEDS TO KNOW. *Instructional Course Lectures*, 70: 181-208, 2021

Rhakra K, Melkus, G, **Wilkin GP**, Beaulé PE. WHAT IS THE CORRELATION BETWEEN DGENERIC, T1P, AND T2* QUANTITATIVE MRI CARTILAGE MAPPING. *Clinical Orthopaedics and Related Research*, 479 (5): 1016-1024, 2021

Hruslinski J, et al., **REGAIN Investigators**. ENGAGING PATIENTS AS PARTNERS IN A MULTI CENTRE TRIAL OF SPINAL VERSUS GENERAL ANESTHESIA FOR OLDER ADULTS. *British Journal of Anesthesia*. 126(2): 395-403, 2021.

Nicol G, Sanders E, Liew A, **Wilkin G**, Gofton WT, Papp S, Grammatopolous G. DOES USE OF A QUADRILATERAL SURFACE PLATE IMPROVE OUTCOME IN ELDERLY ACETABULAR FRACTURES? *Journal of clinical orthopaedics and trauma*, 11(6): 1045-1052, 2020.

Brusalis CM, Peck J, **Wilkin GP**, Robustelli S, Buly RL, Nawabi DH, Ranawat AS, Kelly BT, Sink EL. PERIACETABULAR OSTEOTOMY AS A SALVAGE PROCEDURE: EARLY OUTCOMES IN PATIENTS TREATED FOR IATROGENIC HIP INSTABILITY. *Journal of Bone and Joint Surgery*, 102(21S Suppl 2): 73-79, 2020.

Hadden WJ, Herritt B, Hoang R, Milroy C, Hooper J, **Wilkin GP**. FATAL CEREBRAL FAT EMBOLISM AFTER PELVIC AND MULTIPLE LONG-BONE FRACTURES WITHOUT ASSOCIATED LUNG INJURY: A CASE REPORT. *JBJS Case Connector*, In Press

Wilkin GP, Poitras S, Clohisy J, Belzile E, Zaltz I, Grammatopolous G, Melkus G, Rahkra K, Ramsay T, Thavorn K, Beaulé PE. PERIACETABULAR OSTEOTOMY WITH OR WITHOUT ARTHROSCOPIC MANAGEMENT IN PATIENTS WITH HIP DYSPLASIA: STUDY PROTOCOL FOR A MULTICENTER RANDOMIZED CONTROLLED TRIAL. *Trials*, 21(1): 725, 2020.

Bali K, Smit K, Ibrahim M, Poitras S, **Wilkin G**, Galmiche R, Belzile E, Beaulé PE. OTTAWA CLASSIFICATION FOR SYMPTOMATIC ACETABULAR DYSPLASIA ASSESSMENT OF INTEROBSERVER AND INTRA-OBSERVER RELIABILITY. *Bone and Joint Research*, 9(5) pp.242-249, 2020.

Alzaharni M, **Wilkin GP**. SURGICAL REPAIR OF BILATERAL RECTUS ABDOMINUS AND ADDUCTOR LONGS AVULSIONS: A CASE REPORT. *JBJS Case Connector*, 10(3), e19006300, 2020

Rego P, Beaulé PE, Ayeni OR, Tey M, Marin-Peña O, Dantas P, **Wilkin G**, Grammatopolous G, Mafra I, Smit K, Kurz AZ. FEMOROACETABULAR IMPINGEMENT: WHAT THE SURGEON WANTS TO KNOW. *Seminars in Musculoskeletal Radiology*, 23(3) pp. 257-275, 2019

Wilkin G, Ibrahim M, Smit K, Beaulé PE. A CONTEMPORARY DEFINITION OF HIP DYSPLASIA AND STRUCTURAL INSTABILITY: TOWARDS A COMPREHENSIVE CLASSIFICATION FOR ACETABULAR DYSPLASIA. *Journal of Arthroplasty*, 32(9S) pp. S20-S27, 2017.

Prasarn ML, Meyers KN, **Wilkin G**, Wellman DS, Chan DB, Ahn J, Lorich DG, Helfet DL. DUAL MINI-FRAGMENT PLATING FOR MIDSHAFT CALVICLE FRACTURES: A CLINICAL AND BIOMECHANICAL INVESTIGATION. *Archives of Orthopaedic and Trauma Surgery*, 135(12) pp.1655-62, 2015.

Wilkin G, Khogali S, Garbedian S, Slagel B, Blais S, Gofton W, Liew A, Renaud J-M, Papp S. NEGATIVE-PRESSURE WOUND THERAPY AFTER FASCIOTOMY REDUCES MUSCLE-FIBER REGENERATION IN A PIG MODEL. *The Journal of Bone & Joint Surgery*, 96(16) pp. 1378-85, 2014.

Wilkin G, March G, Beaulé PE. ARTHROSCOPIC ACETABULAR LABRAL DEBRIDEMENT IN PATIENTS AGED GREATER THAN 45 YEARS HAS MINIMAL BENEFIT ON PAIN AND FUNCTION. *The Journal of Bone & Joint Surgery*, 96(2) pp. 113-8, 2014.

Little JP, Safdar A, **Wilkin GP**, Tarnopolsky MA, Gibala MJ. A PRACTICAL MODEL OF LOW-VOLUME HIGH-INTENSITY INTERVAL TRAINING INDUCES MITOCHONDRIAL BIOGENESIS IN HUMAN SKELETAL MUSCLE: POTENTIAL MECHANISMS. *Journal of Physiology* 588 pp.1011-22, 2010.

Gibala MJ, Little JP, van Essen M, **Wilkin GP**, Burgomaster KA, Safdar A, Raha S, Tarnopolsky MA. SHORT-TERM SPRINT INTERVAL VERSUS TRADITIONAL ENDURANCE TRAINING: SIMILAR INITIAL ADAPTATION IN HUMAN SKELETAL MUSCLE AND EXERCISE PERFORMANCE. *Journal of Physiology* 575, pp. 901-11, 2006.

PEER-REVIEWED RESEARCH GRANTS

Canadian Institutes of Health Research (CIHR)	2022
Project Grant	\$577,575
<u>Co-Applicant</u>	2.5 years
<i>"HIP Fracture ThromboPROhylaxis (HIP PRO) Pilot: A Pilot Randomized Controlled Trial"</i>	
Orthopaedic Trauma Association	2022
Full Grant	\$65,000 USD
<u>Co-Applicant</u>	2 years
<i>"Timely hip fracture care implementation pathway: A feasibility study"</i>	
Orthopaedic Trauma Association	2022
Resident Research Grant	\$20,000
<u>Supervising Staff of PI (Reza Ojaghi)</u>	1 year
<i>"Real-time in vivo assessment of bacteriophage therapy in fracture-related infection: An animal model"</i>	
University of Ottawa, Department of Surgery	2021
Wolves' Den Grant Competition	\$20,000
<u>Principal Investigator</u>	
<i>"Bacteriophage therapy to improve the treatment of Fracture-Related Infection - Send in the Viruses!"</i>	
Canadian Institutes of Health Research (CIHR)	2021
Project Grant	\$669,376
<u>Principal Investigator</u>	7 years
<i>"Periacetabular osteotomy with or without arthroscopic management in patients with hip dysplasia: A multicenter randomized controlled trial"</i>	
Canadian Orthopaedic Foundation	2019
Carroll A. Laurin Award	\$20,000
<u>Principal Investigator</u>	
<i>"Periacetabular Osteotomy with and without Arthroscopic Management of Central Compartment Pathology"</i>	
AOTrauma North America	2014
Fellow Research Grant	\$14,990
<u>Principal Investigator</u>	
<i>"Subchondral bone stiffness in the proximal tibia: Effects of locked and non-locked implants"</i>	
Canadian Institutes of Health Research	2007
Studentship in Musculoskeletal Health	\$4,251
<u>Principal Investigator</u>	
<i>"Vacuum-assisted closure of post-compartment syndrome fasciotomy wounds in an animal model"</i>	

BOOK CHAPTERS

- Wilkin G**, Verbeek D, Hickerson L, Helfet D 2021
 ACETABULUM FRACTURES
 in *Hoppenfeld's Treatment and Rehabilitation of Fractures, 2nd ed.*
- Wilkin G** 2020
 ROLE AND INDICATIONS OF HIP ARTHROSCOPY FOR HIP DYSPLASIA
 in *Hip Dysplasia: Understanding and Treating Instability of the Native Hip, 1st ed.*
- Wilkin G**, Hickerson L, Helfet D 2019
 NONUNIONS AND MALUNIONS OF THE HIP
 in *Chapman's Comprehensive Orthopaedic Surgery, 4th ed.*
- Wilkin G** 2019
 HIP ARTHROSCOPY FOR STRUCTURAL HIP PROBLEMS
 in *Barry & Lieberman: Surgery of the Hip, 2nd ed.*
- Beaulé P, Byrd T, Clohisy J, **Wilkin G**, Kelly B, Carsen S, Al-Yousif H, Coobs BR, Clohisy JC. 2018
 NON-ARTHROPLASTY TREATMENT OF HIP DISORDERS/JOINT-PRESERVING SURGERY
 in *Orthopaedic Knowledge Update: Hip & Knee Reconstruction 5*

PEER-REVIEWED PRESENTATIONS

- What is the value of pre-operative MRI before periacetabular osteotomy. Milligan K, Kreviazuk C, Poitras S, Rakhra K, Wilkin G, Beaulé PE. **Canadian Orthopaedic Association Annual Meeting.** Quebec, QC. Podium 2022
- Does pre-operative PROMs predict management in PAO + Arthroscopy. Milligan, K, Rakhra K, Kreviazuk C, Poitras S, Wilkin G, Zaltz I, Belzile E, Stover M, Smit K, Sink E, Clohisy J, Beaulé PE. **Canadian Orthopaedic Association Annual Meeting.** Quebec, QC. Podium 2022
- Rates of early revision surgery in operatively treated patella fractures: a retrospective review of 286 cases. Gopinath R, Howatt J, Liew A, Wilkin G. **Orthopaedic Trauma Association Annual Meeting.** Forth Worth, TX. Podium 2021
- Assessing Outcome Following Open Reduction Internal Fixation of Acetabular Fractures in the Elderly. Sanders E, Dobransky JS, Finless A, Nicol G, Wilkin G, Liew A, Gofton W, Papp S, Beaulé PE. **Canadian Orthopaedic Association Annual Meeting.** Podium 2020
- Provisional Fixation of Unstable Femoral Neck Basicervical Fractures: A Web Based Survey and Biomechanical Assessment. Alzahrani MM, Culltion K, Wilkin G, Liew A, Papp S. **Canadian Orthopaedic Association Annual Meeting.** ePoster. 2020
- Outcomes Following Acute Open Reduction Internal Fixation with Total Hip Replacement and Delayed Total Hip Replacement for Acetabular Fractures in the Elderly. Sanders E, Dobransky JS, Finless A, Nicol G, Wilkin G, Liew A, Gofton W, Papp S, Beaulé PE. **Canadian Orthopaedic Association Annual Meeting.** ePoster. 2020
- Comparing two cephalomedullary nails for elderly intertrochanteric hip fractures: Zimmer natural nail versus Trochanteric fixation nail. Stewart A, Swift B, Wilkin G, Papp S, Liew A. **Canadian Orthopaedic Association Annual Meeting.** ePoster 2020

- A 10-year review of hemodynamically unstable pelvic fractures at the Ottawa hospital: Is there potential for a Pelvic Fracture Protocol? 2019
Adamczyk A, Gauthier P, Lampron J, **Wilkin GP**
Podium Presentation
Canadian Surgery Forum, Montreal, QC
- Reliability of a Comprehensive Classification for Adult Acetabular Dysplasia (CCAD) 2019
Bali K, Smit K, Ibrahim MM, Poitras S, **Wilkin GP**, Beaulé PE.
Podium Presentation
Canadian Orthopaedic Association Annual Meeting, Montreal, QC
- Quantitative hip cartilage MRI of patients with hip dysplasia: Evaluation of dGEMERIC, T1 ρ and T2* mapping 2019
Melkus G, Rakhra KS, **Wilkin GP**, Beaulé PE.
Canadian Orthopaedic Association Annual Meeting, Montreal, QC
- Treatment of labral tears by hip arthroscopy in older patients has minimal clinical benefit 2013
Wilkin GP, March G, Beaulé PE.
Podium Presentation
Canadian Orthopaedic Association Annual Meeting, Winnipeg, MB
- Vacuum Assisted Closure (V.A.C.™) effects on skeletal muscle after experimental compartment syndrome 2013
Wilkin GP, Khogali S, Garbedian S, Slagel B, Blais S, Gofton W, Liew A, Renaud J-M, Papp S.
Poster Presentation - COA guest nation top 10 feature
American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL
- Vacuum Assisted Closure (V.A.C.™) effects on skeletal muscle after compartment syndrome in an animal model 2012
Wilkin GP, Khogali S, Garbedian S, Slagel B, Blais S, Gofton W, Liew A, Renaud J-M, Papp S.
Podium Presentation
Canadian Orthopaedic Association & Canadian Orthopaedic Residents' Association Annual Meetings, Ottawa, ON
- ORIF of high-energy pilon fractures: violating the 7-cm skin bridge rule 2009
Podium Presentation
Canadian Orthopaedic Association Annual Meeting, Whistler, BC
- Low volume sprint interval training stimulates performance adaptations comparable to traditional endurance training 2005
Poster Presentation
Canadian Federation of Biological Societies, 48th Annual Meeting, Guelph, ON
- Modified Sprint Interval Training 2005
Podium Presentation
Ontario Exercise Physiology Annual Meeting, Barrie, ON

INVITED PRESENTATIONS

- Appealing an OHIP Billing Decision - My Experience 2022
Ontario Orthopaedic Association Annual Meeting, Toronto, ON

Pelvic Fractures, Tibial Plateau Fractures - Trauma Symposium - Evidence + Experience Ontario Orthopaedic Association Annual Meeting , Toronto, ON	2022
Diagnosing Infection/Pre-op Workup - Trauma Symposium - Diagnosing and Treating Long-Bone Nonunion Canadian Orthopaedic Association Annual Meeting , Quebec, QC	2022
The Pre-OA Hip: FAI & DDH Canadian Orthopaedic Association Annual Meeting , Montreal, QC	2019
Screw Design and Function AO Basic Principles of Fracture Management Course , St. Louis, MO	2019
Managing Pincer FAI 39th SICOT World Congress , Montreal, PQ	2018
Debate: Capsule Management in Hip Arthroscopy 39th SICOT World Congress , Montreal, PQ	2018
Periacetabular Osteotomy in the Young Adult Hip Ontario Orthopaedic Association 40th Annual General Meeting , Toronto, ON	2017
COA Symposium - Lower extremity trauma complications & how to avoid them Canadian Orthopaedic Association Annual Meeting , Ottawa, ON	2017
CORA Symposium - Transition from fellowship to practice: Setting yourself up for success Canadian Orthopaedic Residents' Association Annual Meeting , Ottawa ON	2017
Pelvic Fracture Stabilization 15th Annual Ottawa Trauma Conference , Ottawa, ON	2017
"What caused that labral tear?" - A comprehensive approach to hip pain and pathomechanics in the young patient Carleton University Sports Medicine Grand Rounds , Ottawa, ON	2017
Native Hip Instability: Understanding the spectrum for subtle to severe University of Ottawa Orthopaedic Surgery Grand Rounds , Ottawa, ON	2016
Update on Intertrochanteric Hip Fractures National Capital Orthopaedic Association Annual Meeting , Ottawa, ON	2016

JOURNAL AFFILIATIONS

Hip International Reviewer	2017 - Present
Canadian Journal of Surgery Reviewer	2014 - 2016
Arthroscopy Reviewer	2017 - 2020

AWARDS

Staff Teaching Award Division of Orthopaedic Surgery, University of Ottawa	2021
Carroll A. Laurin Award Canadian Orthopaedic Foundation	2018
AO Trauma North America Fellows Davos Initiative AO Trauma North America	2015
International Fellowship for New Faculty Faculty of Medicine, University of Ottawa	2015 - 2016
Detweiller Travelling Fellowship Royal College of Physicians & Surgeons of Canada	2014 - 2015
Dr. Merv Letts Award for Scholarship Division of Orthopaedic Surgery, University of Ottawa	2011, 2012, 2013, 2014
Human Anatomy Prize Division of Orthopaedic Surgery, University of Ottawa	2014
COA Top 10 Abstract Canadian Orthopaedic Association Annual Meeting Ottawa, ON	2012
COA Award - Resident Research Paper Canadian Orthopaedic Residents' Association Annual Meeting, Ottawa, ON	2012
Best Basic Science Paper HKU Resident Research Day, Division of Orthopaedic Surgery, University of Ottawa	2012
Guardian Angel Award The Ottawa Hospital Foundation	2011, 2017
David Edward Mundell Prize in Orthopaedic Surgery Faculty of Medicine, Queen's University	2009
Governor's Scholarship McMaster University	2001 - 2005

ADDITIONAL TRAINING

AO Trauma Master's Course - "Difficult Cases Through the Eyes of Master Surgeons" AO Trauma, Davos, Switzerland	2015
AO Pelvic & Acetabular Fracture Course AO Trauma North America, Toronto, ON	2015
AO Solutions - Nonunions and Problem Fractures AO Trauma North America, San Francisco, CA	2015

AO Fellows' Cadaver Course AO Trauma North America, Las Vegas, NV	2015
Advanced Trauma Life Support (ATLS) American College of Surgeons	2014
Advanced Cardiac Life Support (ACLS) American Heart Association	2014
AO Advanced Principles and Techniques of Operative Fracture Management AO North America, Toronto, ON	2012
Advanced Trauma Techniques Course for Residents Orthopaedic Trauma Association, Orlando, FL	2012
Resident Arthroplasty Course American Association of Hip and Knee Surgeons, Dallas, TX	2011
AO Basic Principles and Techniques of Operative Fracture Management AO North America, Toronto, ON	2010

OTHER RELEVANT EXPERIENCE

Examiner - Orthopaedic Surgery Royal College of Physicians and Surgeons of Canada	2019 - Present
Teaching Assistant Department of Anatomy & Physiology, Queen's University	2006

REFERENCES

Available on request