

CURRICULUM VITAE



EUGENE KENNETH WAI

Area of Focus: Clinical Expertise in Spinal Surgery

Correspondence language: English

Country of Citizenship: Canada

Language Skills: English (Read, Write, Speak, Understand)

The Ottawa Hospital - Civic Campus Suite J-141
1053 Carling Avenue
Ottawa, Ontario, Canada
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EDUCATION

Degrees

- Combined Neurosurgical and Orthopaedic Spinal Surgery Fellowship, Royal Adelaide Hospital, University of Adelaide, Australia, 2003 • Spinal Surgery and Orthopaedic Trauma Fellowship, Sunnybrook and Women's Hospital, University of Toronto, Canada, 2002

- Orthopaedic Surgery Residency, University of Toronto, Canada, 2001
- MSc Clinical Epidemiology, Department of Community Health, University of Toronto, Canada, 1999
- MD, University of Toronto, Canada, 1994

Credentials

- Independent Practice, College of Physicians and Surgeons of Ontario, from January 2001
- Fellow (Orthopaedic Surgery), Royal College of Physicians and Surgeons (Canada), from January 1999
- Clinician Investigator (Clinical Epidemiology), Royal College of Physicians and Surgeons (Canada), from January 1997

Continuous Professional Development (Last 7 Years):

- Modified Ashworth Scale Training Certificate – April 2021
- Growing Patient Orientated Research, Ottawa Hospital Research Institute Methods Centre, February 2020
- Alda Medical Immersion – Connect to Care, Alda Alda Institute for Communicating Science, Stony Brook University – Fall 2019
- The Ottawa Hospital Medical Resiliency Workshop Spring 2019
- Essentials for Academic Leadership for Clinicians, University of Ottawa Faculty of Medicine – Fall 2018
- SAEGIS Effective Team Interactions and Successful Patient Interactions Courses – April 2018
- Foundations for Quality Improvement Course, IDEAS Ontario – Fall 2017
- Good Clinical Practice Canada - Refresher, Ottawa Hospital Research Institute, Canada, Ontario, November 2017 - November 2017
- TCPS-2 Tri-Council Policy Statement Ethical Conduct for Research Involving Humans Course on Research Ethics, Ethics, Interagency Advisory Panel on Research Ethics, Ontario, Canada, November 2017 - November 2017
- Successful Patient Interactions, Patient Communication, SAEGIS - CMPA, Ontario, Canada, October 2017 - October 2017
- 2017 Emergency Codes, The Ottawa Hospital, Canada, Ontario, September 2017 - November 2017
- 2017 Privacy and Information Security, September 2017 - September 2017
- B3451002 Study, Protocol-Specific Training, Pfizer, Ontario, Canada, April 2016 - April 2016
- Good Clinical Practice for Investigational Site Staff ICH E6, TransCelerate BioPharma, INc, Pfizer, Inc, Ontario, Canada, March 2016 - March 2016
- 2015 WHMIS, The Ottawa Hospital, Canada, Ontario, October 2015 - October 2015

- Accessibility in Health Care Environment, The Ottawa Hospital, Canada, Ontario, October 2015 - October 2017
- Preventing Mistreatment of Students, Ottawa Hospital, Canada, Ontario, March 2015 - March 2015
- Good Clinical Practice, Ontario, Canada, January 2015 - January 2015
- ProDisc-C Technical Course, Surgery, Stryker Canada, British Columbia, Canada, January 2015 - January 2015
- Safety Awareness - Supervisors, Ministry of Labour, Ontario, Canada, December 2014 - December 2014

Recognitions (Last 7 Years)

- 2019 Leadership Award, University of Ottawa Department of Surgery
- 2018 Jacques Robichaud Award for Outstanding Contribution to the Division of Orthopaedic Surgery
- 2017 Founders' Award, Simplified Clinical Prediction Rule for Prognosticating Independent Walking after Spinal Cord Injury: A Prospective Study from a Canadian Multicentre Spinal Cord Injury Registry, Canadian Orthopaedic Research Society

EMPLOYMENT

Academic Work Experience (Last 7 Years)

- Cross Appointment to School of Epidemiology and Public Health, University of Ottawa, 2018 - Present
- Associate Professor, Division of Orthopaedic Surgery, University of Ottawa, 2011 - Present
- Assistant Professor, Division of Orthopaedic Surgery, University of Ottawa, 2003 - 2011

Non-academic Work Experience (Last 7 Years)

- Medical Director, Ontario Workers Network (OWN) Back and Neck Specialty Comprehensive Assessment Program, 2018 - present
- Medical Director, Champlain LHIN Interprofessional Spine Assessment and Education Clinics (ISAEC), 2017 - present

Affiliations (Last 7 Years)

- Head, uOttawa Spine Collaborative Analytics Network, 2017 - 2020
- Head, uOttawa Combined Adult Spinal Surgery Program, 2007 - 2020

- Attending Surgeon, Division of Orthopaedic Surgery, Ottawa Hospital, 2003 – present
- Clinician Investigator, Clinical Epidemiology Program, Ottawa Hospital Research Institute, 2003 - present

RESEARCH FUNDING HISTORY LIFETIME FUNDING:

- Total amount of funding received.....\$1,388,510
 As Principal Investigator\$398,896

EXTERNAL RESEARCH FUNDING (Past 7 years):

Year(s)	Source	Type	Investigator	Amount
2021-2022	TOHAMO Innovation Grant Title: Improving Access to Chronic Pain Care: A pilot window-ofopportunity study of the Power Over Pain portal at The Ottawa Hospital	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator	<u>Funding Total:</u> \$99,400
2019-2021	TOHAMO Innovation Grant Title: The Feasibility of a Multidisciplinary Transitional Pain Service in Spine Surgery Patients to Minimize Opioid Use and Improve Peri-Operative Outcomes	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator	<u>Funding Total:</u> \$54,350
2017 -	Stryker Canada Unrestricted Grant <u>Title:</u> Developing Prediction Models in Spinal Surgery	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator	<u>Funding Total:</u> \$150,000

2012 – 2014	TOHAMO Innovation Grant Title: Does a Simple 3-Item Questionnaire Reduce the Wait Times for Consultations for Patients Who Would Benefit From Lumbar Surgery?	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Principle Investigator	<u>Funding Total:</u> \$27,296
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ACTIVITIES

Teaching Activities

Faculty Sponsored Lectures / Teaching Activities = 35 hours / year

2018 - Present	<p>Role: Facilitator Title: Clinical Epidemiology Problem Based Learning Sessions Context: University of Ottawa Medical School Year 1 Curriculum Number of Students: 6 Total Lecture Hours: 12 hours / year</p>
2016 - Present	<p>Role: Lecturer Title: Clinical Exam for the Back Context: University of Ottawa Medical School Year 1 Curriculum Number of Students: 116 Total Lecture Hours: 3 hours / year</p>
2003 – Present	<p>Role: Lecturer Title: Topics related to Spinal Surgery Context: University of Ottawa Orthopaedic Resident’s Training Curriculum PGY1-5 Number of Students: 30-36 Total Lecture Hours: 4 hours / year</p>
2003 – Present	<p>Role: Facilitator Title: Spinal Surgery Simulations Lab Context: University of Ottawa Orthopaedic Resident’s Training Curriculum PGY1-5 Number of Students: 30-36 Total Lecture Hours: 4 hours / year</p>
2003 – Present	<p>Role: Facilitator Title: Practice Oral Exams Context: University of Ottawa Orthopaedic Resident’s Training Curriculum PGY1-5 Number of Students: 6-12 Total Lecture Hours: 12 hours / year</p>

Program Development (Past 7 years)

Hours participating in organizing educational activities: 24

2019 – Present	<p>Role: Content Expert Title: Competency Based Curriculum Committee Context: University of Ottawa Orthopaedic Resident’s Training Curriculum PGY1-5 Number of Students: 30-36 Total Hours: 12 hours / year</p>
2006 - Present	<p>Role: Content Expert, Former Chair of Committee Title: Program Committee Context: Canadian Spine Society Number of Students: 150-200 Total Hours: 12 hours / year</p>
2017 – Present	<p>Role: Content Expert Title: Education Committee Context: Interprofessional Spine Assessment and Education Clinics Number of Students: 5-10 Total Hours: 3 hours / year</p>

Clinical Teaching

Total Number of Students = 560

2003 – Present	<p>Role: Clinical Preceptor Context: University of Ottawa Medical Students Number of Students: ~ 8 / year</p>
2003 – Present	<p>Role: Clinical Preceptor Context: University of Ottawa Orthopaedic Residency Number of Students: ~ 24 / year</p>

2003 – Present	<p>Role: Clinical Preceptor Context: University of Ottawa Spinal Surgery Fellowship Number of Students: 2-4 / year</p>
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SCHOLARLY AND PROFESSIONAL ACTIVITIES:

Postdoctoral Supervision (Past 7 years)

2017 – Present	<p>Thesis Committee Member Alex Chung PhD In Progress, University of Ottawa Telfer School of Management Thesis: A Meta-model of Systems Design Theory and Behavioral Change Theory to Inform Technological Applications in Promoting Physical Activity</p>
2017 – 2020	<p>Thesis Committee Member Stephen Kingwell MHA. Completed, University of Ottawa Telfer School of Management Thesis: Systems Modelling to Improve Quality of Care in Spinal Surgery</p>
2017 – Present	<p>Academic Advisor Allison Clouthier PhD In Progress, University of Ottawa School of Human Kinetics Thesis: 3D Spine Geometry Reconstruction from Planar Xrays</p>
2016 – Present	<p>Academic Advisor Kirstin Beange Postdoctorate Fellowship, University of Ottawa School of Human Kinetics Thesis: The Utility of 3D Inter-Vertebral Surface Positions in Neuromuscular Evaluation (SPiNE) Monitoring</p>
2016 – 2019	<p>Academic Advisor Mohamed Hoda Postdoctorate Fellowship Completed, Ottawa Hospital Research Institute Thesis: Advanced Analytics in Prediction of Surgical Outcomes</p>

2014 – 2017	<p>Thesis Committee Member Mark Pahuta PhD Completed, University of Ottawa School of Epidemiology and Public Health Thesis: Assessing Utilities in Metastatic Epidural Spinal Cord Compression</p>
2012 - 2014	<p>Academic Advisor Philippe Phan PhD Completed, University of Montreal, Faculty of Engineering Thesis: Artificial Neural Networks in the Classification of Scoliosis</p>

Student / Resident / Fellow Research Supervision (Past 7 years)

2019 – present	<p>Academic Advisor NhatChin Le BSc Student, University of Ottawa Thesis: Regional Variation in Use of Imaging and Opioid Prescription for Low Back Pain in Ontario</p>
2019 – present	<p>Academic Advisor Nazish Sharrif BSc Student, University of Ottawa Thesis: Prehabilitation for Spinal Surgery</p>
2018 - present	<p>Academic Advisor Zach Devries BSc Student, University of Ottawa Thesis: Development of an Unsupervised Machine Learning Algorithm for the Prognostication of Walking Ability in Spinal Cord Injury Patients</p>
2018 – 2019	<p>Academic Advisor Stephanie DeVerres Spinal Surgery Fellow, University of Ottawa Thesis: Hypoalbumenia as a Risk Factor in Spinal Surgery</p>
2017 – 2019	<p>Academic Advisor Alexandra Bunting Orthopaedic Surgery Resident, University of Ottawa Thesis: Cortical Trajectory Pedicle Screws in the Upper Thoracic Spine</p>

2018 – 2019	Academic Advisor Allison Turner BSc Student, University of Ottawa Thesis: Management of Cervical Spine Epidural Abscess: A Systematic Review
2017 – 2018	Academic Advisor Kim Vu BSc Honours Thesis, McMaster University Thesis: Surgical Outcomes Related to Trainee Involvement in Spinal Surgery
2017 – 2018	Academic Advisor Amy Zeglinski-Spinney A BSc Student, University of Ottawa Thesis: Increased Prevalence of Chronic Disease in Back Pain Patients Living in Car-dependent Neighbourhoods in Canada: A Cross-sectional Analysis.
2017 - 2018	Academic Advisor Saad Suror Spinal Surgery Fellow, University of Ottawa Thesis: Vitamin C in the Management of Back Pain

2014 – 2018	Academic Advisor Matt Coyle Orthopaedic Surgery Resident, University of Ottawa Thesis: The Use of a Self-Administered Questionnaire to Reduce Consultation Wait Times for Potential Elective Lumbar Spinal Surgery
2016 – 2017	Academic Advisor Abdullah Arab Spinal Surgery Fellow, University of Ottawa Thesis: Navigation in Cervical Spine Fixation
2016 – 2017	Academic Advisor Lukas Hesham BSc Student, University of Ottawa Thesis: Exploration of the Inter-Relationships Between Obesity, Physical Inactivity, Inflammation, and Low Back Pain
2016 - 2017	Academic Advisor Katie Garland BSc Student, University of Ottawa Thesis: Can Surgeons Adequately Capture Adverse Events Using the Spinal Adverse Events Severity System (SAVES) and OrthoSAVES?
2016 – 2017	Academic Advisor Elliott Layne BSc Student, Dalhousie University Thesis: Activities performed and treatments conducted before consultation with a spine surgeon: are patients and clinicians following evidence-based clinical practice guidelines
2015 – 2016	Academic Advisor Courtney Wilson BSc Student, Dalhousie University Thesis: A systematic review of preoperative predictors for postoperative clinical outcomes following lumbar discectomy
2014 – 2015	Academic Advisor Andrew Tice Orthopaedic Surgery Resident, University of Ottawa Thesis: Basic Science of Bone Graft Substitutes
2014 – 2015	Academic Advisor Mohammed Shamji Neurosurgery Resident, University of Ottawa Thesis: Obesity and Low Back Pain

2011 -2015	Academic Advisor Suzan Chen Medical Student, Ross University Thesis: Systematic Review on Genetics of Scoliosis
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Editorial Activities

- 2018 - present Associate Editorial Board Member – The Spine Journal
 2015 - present Editorial Board Member - Spine Subsection, Journal of Current Clinical Care

Journal Review Activities

- 2015 – present Peer Reviewer, Journal of Current Clinical Care (over 12 manuscripts reviewed)
 2010 – present Peer Reviewer, Spine Journal (over 70 manuscripts reviewed)
 2010 – present Peer Reviewer, Spine (over 70 manuscripts reviewed)
 2005 – present Peer Reviewer, Canadian Spine Society Annual Scientific Meeting

KNOWLEDGE AND TECHNOLOGY TRANSLATION

Knowledge and Technology Translation (Last 7 Years):

- 2021 Expert Panelist, Ontario Ministry of Health Quality Based Program Guidelines Update for Low Back Pain
 2017 – 2018 Expert Panelist, Health Quality Ontario Standards Development for Management of Low Back Pain
 2015 – 2016 Expert Panelist, Ontario Ministry of Health Quality Based Program Guidelines Development for Low Back Pain
 2015 – 2016 Expert Panelist, Ontario Ministry of Health Quality Based Program Guidelines Development for Imaging of Musculoskeletal Conditions
 2010 – 2016 Committee Member, Canadian Spine Society Variations Committee

Scholarly Activities:

- 2016 Visiting Professor, Queens University, Division of Orthopaedic Surgery Residency Training Program

MEMBERSHIPS

Committee Memberships (Past 7 Years)

- 2011 – Committee Member, Practice Variation Committee, Canadian Spine Society
 2011 – Committee Member, Scientific Program, Canadian Spine Society
 2007 – Committee Member, Research Ethics Board, Ottawa Health Research Institute, Canada, Ontario
 2003 – Committee Member, Combined Neurosurgery and Orthopaedic Surgery Spine Curriculum Committee - University of Ottawa, University of Ottawa
 2011 – 2016 Chair, Canadian Spine Society - Research Committee

CONTRIBUTIONS:

Life-Time Summary Count According to the Following Categories:

Refereed Journal Articles	116
Refereed Journal Articles as First or Senior Author	45
Refereed Chapters In Books	5
Technical Publications	4

Publications (Past 9 Years)

Technical Publications (Past 7 years)

1. Health Quality Ontario (Expert Panelist). Quality Standards. Low Back Pain. Care for Adults with Acute Low Back Pain. 2018. Available at:
<https://hqontario.ca/Portals/0/documents/evidence/quality-standards/qs-low-back-painquality-standard-en.pdf>
2. Ministry of Health and Long-Term Care (Expert Panelist). Quality-Based Pathway Clinical Handbook for Non-Emergent Integrated Spine Care. 2017 Available at:
http://www.health.gov.on.ca/en/pro/programs/ecfa/docs/hb_spine.pdf

Refereed Journal Articles

1. Neuman MD, REGAIN Investigators, et al. Spinal Anesthesia or General Anesthesia for Hip Surgery in Older Adults. N Engl J Med. 2021 Nov 25;385(22):2025-2035
2. DeVries Z, Locke E, Hoda M, Moravek D, Phan K, Stratton A, Kingwell S, Wai EK, Phan P. Using a national surgical database to predict complications following posterior lumbar surgery and comparing the area under the curve and F1-score for the assessment of prognostic capability. Spine J. 2021 Jul;21(7):1135-1142

3. Hrusliski J, REGAIN Investigators, et al. Engaging patients as partners in a multicentre trial of spinal versus general anaesthesia for older adults. *Br J Anaesth*. 2021 Feb; 126(2): 395403
4. Afaq S, FAITH & HEALTH Investigators, et al. Arthroplasty versus internal fixation for the treatment of undisplaced femoral neck fractures: A retrospective cohort study. *J Orthop Trauma* 2020; 34 Suppl 3: S9-14.
5. Würdemann FS, FAITH Investigators, et al. Clockwise Torque of Sliding Hip Screws: Is There a Right Side? *J Orthop Trauma*. 2020 Nov;34 Suppl 3:S76-S80
6. MacDonald DRW, FAITH & HEALTH Investigators. Venous Thromboembolism in Hip Fracture Patients: A Subanalysis of the FAITH and HEALTH Trials. *J Orthop Trauma*. 2020 Nov;34 Suppl 3:S70-S75
7. Sivaratnam S, FAITH & HEALTH Investigators, et al. Predictors of Loss to Follow-up in Hip Fracture Trials: A Secondary Analysis of the FAITH and HEALTH Trials. *J Orthop Trauma*. 2020 Nov;34 Suppl 3:S22-S28.
8. Bzovsky S. FAITH & HEALTH Investigators, et al. Factors Associated With Mortality After Surgical Management of Femoral Neck Fractures. *J Orthop Trauma*. 2020 Nov;34 Suppl 3:S15-S21
9. Blankstein M. FAITH & HEALTH Investigators, et al. The FAITH and HEALTH Trials: Are We Studying Different Hip Fracture Patient Populations? *J Orthop Trauma*. 2020 Nov;34 Suppl 3:S1-S8
10. FAITH & HEALTH Investigators. Study Summaries. *J Orthop Trauma*. 2020 Nov;34 Suppl 3:Sii-Siii.
11. Stratton A, Wai E, Kingwell S, Phan P, Roffey D, El Koussy M, Christie S, Jarzem P, Rasoulinejad P, Casha S, Paquet J, Johnson M, Abraham E, Hall H, McIntosh G, Thomas K, Rampersaud R, Manson N, Fisher C. Opioid use trends in patients undergoing elective thoracic and lumbar spine surgery. *Can J Surg*. 2020 May 28;63(3):E306-E312.
12. Hebert JJ, Abraham E, Wedderkopp N, Bigney E, Richardson E, Darling M, Hall H, Fisher CG, Rampersaud YR, Thomas KC, Jacobs WB, Johnson M, Paquet J, Attabib N, Jarzem P, Wai EK, Rasoulinejad P, Ahn H, Nataraj A, Stratton A, Manson N. Preoperative Factors Predict Postoperative Trajectories of Pain and Disability Following Surgery for Degenerative Lumbar Spinal Stenosis. *Spine (Phila Pa 1976)*. 2020, ePub ahead of Print
13. Garland K, Chen BP, Poitras S, Wai EK, Kingwell SP, Roffey DM, Beaulé PE. Capturing adverse events in elective orthopedic surgery: comparison of administrative, surgeon and reviewer reporting. *Can J Surg*. 2020 Jan 22;63(1):E35-E37.
14. Hebert JJ, Abraham E, Wedderkopp N, Bigney E, Richardson E, Darling M, Hall H, Wai E, et al. Patients undergoing surgery for lumbar spinal stenosis experience unique courses of pain and disability: A group-based trajectory analysis. *PLoS One*. 2019; 14(11): e0224200.
15. DeVries Z, Hoda M, Rivers CS, Maher A, Wai E, Moravek D, Stratton A, Kingwell S, Fallah N, Paquet J, Phan P RHSCIR Network. Development of an Unsupervised Machine Learning Algorithm for the Prognostication of Walking Ability in Spinal Cord Injury Patients. *Spine J* 2019. [Epub ahead of print]

16. Al Saradwi S, Arjmand P, Bastianelli P, Wai E, Polis T. Bilateral Visual Loss After Spine Surgery in a Patient With Midfacial Trauma: A Case Report. *A A Pract* 2019; 13(8); 322-4
17. Turner A, Zhao L, Gauthier P, Chen S, Roffey DM, Wai EK. Management of Cervical Spine Epidural Abscess: A Systematic Review. *Ther Adv Infect Dis* 2019; 6: 2049936119863490. eCollection Jan-Dec 2019
18. Phan K, Phan P, Stratton A, Kingwell S, Hoda M, Wai EK. Impact of Resident Involvement on Cervical and Lumbar Spine Surgery Outcomes. *Spine J* 2019; 19(12): 1905-10
19. Pahuta M, Werier J, Wai EK, Patchell RA, Coyle D. A Technique for Approximating Transition Rates From Published Survival Analyses. *Cost Eff Resource Allocations* 2019; 17(12): eCollections 2019 Jul 1
20. Wai EK. CORR Insights®: Does the SORG Algorithm Predict 5-year Survival in Patients With Chondrosarcoma? An External Validation. *Clin Orth Rel Res* 2019; [ePub ahead of print]
21. Pahuta MA, Werier J, Wai EK, van Walraven C, Coyle D. Back to Bayesian: A Strategy to Enhance Prognostication of Metastatic Spine Disease. *Int J Clin Pract* 2019; 73(4): e13322
22. Zeglinski-Spinney A, Wai DC, Phan P, Tsai EC, Stratton A, Kingwell S, Roffey DM, Wai EK. Increased Prevalence of Chronic Disease in Back Pain Patients Living in Cardependent Neighbourhoods in Canada: A Cross-sectional Analysis. *J Prev Med Public Health* 2018; 51(5): 227-33
23. Pahuta MA, Wai EK, Werier J, van Walraven C, Coyle D. A General Population Utility Valuation Study For Metastatic Epidural Spinal Cord Compression Health States. *Spine (Phila Pa 1976)*. 2019 Jan 7. [Epub ahead of print]
24. Coyle MJ, Roffey DM, Phan P, Kingwell SP, Wai EK. The Use of a Self-Administered Questionnaire to Reduce Consultation Wait Times for Potential Elective Lumbar Spinal Surgical Candidates: A Prospective, Pragmatic, Blinded, Randomized Controlled Quality Improvement Study. *J Bone Joint Surg Am*. 2018 Dec 19;100(24):2125-2131.
25. Surur S, Zeglinski-Spinney A, El Koussy MM, Roffey D, Wai EK. Spontaneous Atraumatic Bilateral Pedicle Insufficiency Fractures. *Can J Neurol Sci*. 2018 Nov;45(6):717-720
26. Phan P, Budhram B, Zhang Q, Rivers CS, Noonan VK, Plashkes T, Wai EK, Paquet J, Roffey DM, Tsai E, Fallah N; RHSCIR Network. Highlighting discrepancies in walking prediction accuracy for patients with traumatic spinal cord injury: an evaluation of validated prediction models using a Canadian Multicenter Spinal Cord Injury Registry. *Spine J*. 2018 Sep 1. pii: S1529-9430
27. Pahuta M, Frombach A, Hashem E, Spence S, Sun C, Wai EK, Werier J, van Walraven C, Coyle D. The Psychometric Properties of a Self-Administered, Open-Source Module for Valuing Metastatic Epidural Spinal Cord Compression Utilities. *Pharmacoecon Open*. 2018 Sep 3
28. Sprague S, Tornetta P 3rd, Slobogean GP, O'Hara NN, McKay P, Petrisor B, Jeray KJ, Schemitsch EH, Sanders D, Bhandari M; FLOW Investigators (2018) Are large clinical trials in orthopaedic trauma justified? *BMC Musculoskelet Disord* 19(1):124

29. Sprague S, Schemitsch EH, Swiontkowski M, Della Rocca GJ, Jeray KJ, Liew S, Slobogean GP, Bzovsky S, Heels-Ansdell D, Zhou Q, Bhandari M; FAITH Investigators (2018) Factors Associated With Revision Surgery After Internal Fixation of Hip Fractures *J Orthop Trauma*;32(5):223-230
30. Sprague S, Bhandari M, Heetveld MJ, Liew S, Scott T, Bzovsky S, Heels-Ansdell D, Zhou Q, Swiontkowski M, Schemitsch EH; FAITH Investigators (2018) Factors associated with health-related quality of life, hip function, and health utility after operative management of femoral neck fractures *Bone Joint J*;100-B(3):361-369
31. Arab A, Alkherayf F, Sachs A, Wai EK (2018) Use of 3D Navigation in Subaxial Cervical Spine Lateral Mass Screw Insertion *J Neurol Surg Rep*;79(1):e1-e8
32. Hashem LE, Roffey DM, Alfasi AM, Papineau GD, Wai DC, Phan P, Kingwell SP, Wai EK (2018) Exploration of the Inter-Relationships Between Obesity, Physical Inactivity, Inflammation, and Low Back Pain *Spine*;43(17):1218-122
33. Beaupre LA, Wai EK, Hoover DR, Noveck H, Roffey DM, Cook DR, Magaziner JS, Carson JL (2018) A comparison of outcomes between Canada and the United States in patients recovering from hip fracture repair: secondary analysis of the FOCUS trial *Int J Qual Health Care*;30(2):97-103
34. Sprague S, Petrisor B, Jeray K, McKay P, Heels-Ansdell D, Schemitsch E, Liew S, Guyatt G, Walter SD, Bhandari M; FLOW Investigators (2018) Wound irrigation does not affect health-related quality of life after open fractures: results of a randomized controlled trial *Bone Joint J*;100-B(1):88-94
35. Chen BP, Garland K, Roffey DM, Poitras S, Dervin G, Lapner P, Phan P, Wai EK, Kingwell SP, Beaulé PE (2017) Can Surgeons Adequately Capture Adverse Events Using the Spinal Adverse Events Severity System (SAVES) and OrthoSAVES? *Clin Orthop Relat Res*, 475(1), 253-60
36. Taccone MS, Theriault PG, Roffey DM, AlShumrani M, Alkherayf F, Wai EK (2017) Intradural Hematoma and Arachnoid Cyst Following Lumbar Spinal Surgery: A Case Report *Can J Neurol Sci (In Press)*
37. Sprague S, Slobogean GP, Bogoch E, Petrisor B, Garibaldi A, O'Hara N, Bhandari M; FAITH Investigators (2017) Vitamin D Use and Health Outcomes After Surgery for Hip Fracture *Orthopedics*, 40(5), e868-875
38. Layne E, Roffey DM, Coyle MJ, Phan P, Kingwell S, Wai EK (2017) Activities performed and treatments conducted before consultation with a spine surgeon: are patients and clinicians following evidence-based clinical practice guidelines? *Spine J*, 17S, S1529-9430
39. Beange KH, Beharriell TH, Wai EK, Graham RB (2017) A Spinal Control Approach to Back Pain for the Primary Care Provider *J Curr Clin Care*, (2)
40. Chen S, Roffey DM, Dion CA, Arab A, Wai EK (2016) Effect of perioperative vitamin C supplementation on postoperative pain and the incidence of chronic regional pain syndrome: a systematic review and meta-analysis *Clin J Pain*, 32(2), 179-85

41. Wilson CA, Roffey DM, Chow D, Alkherayf F, Wai EK (2016) A systematic review of preoperative predictors for postoperative clinical outcomes following lumbar discectomy *Spine J*, 16(11), 1413-22
42. Lin CA, Bhandari M, Guyatt G, Walter SD, Schemitsch EH, Swiontkowski M, Sanders D, Tornetta P 3rd; SPRINT Investigators (2016) Does Participation in a Randomized Clinical Trial Change Outcomes? An Evaluation of Patients Not Enrolled in the SPRINT Trial *J Orthop Trauma*, 30(3), 156-61
43. Obremsky W, Agel J, Archer K, To P, Tornetta P 3rd; SPRINT Investigators (2016) Character, Incidence, and Predictors of Knee Pain and Activity After Infrapatellar Intramedullary Nailing of an Isolated Tibia Fracture *J Orthop Trauma*, 30(3), 135-41
44. Zielinski SM, Heetveld MJ, Bhandari M, Patka P, Van Lieshout EM; FAITH Trial Investigators (2015) Implant Removal After Internal Fixation of a Femoral Neck Fracture: Effects on Physical Functioning *J Orthop Trauma* 2015 Sep;29(9):e285-92
45. A Tice, DM Roffey, SP Kingwell, P Phan, EK Wai (2015) Bone Substitutes: Basic Science, Options, Benefits/Risks and Relative Cost *COA Bulletin (Summer)* 109, 25-27
46. MS Taccone, M Pahuta, DM Roffey, MF Shamji, EK Wai (2015) Vertebral Metastatic Disease: A Practice Guideline for the General Practitioner *Journal of Current Clinical Care* 5 (5), 22-42
47. Selby R, Geerts WH, Kreder HJ, Crowther MA, Kaus L, Sealey F (2015) D-KAF (Dalteparin in Knee-to-Ankle Fracture) Investigators A double-blind, randomized controlled trial of the prevention of clinically important venous thromboembolism after isolated lower leg fractures *J Orthop Trauma* 2015 May;29(5):224-30
48. Burgers PT, Poolman RW, Van Bakel TM, Tuinebreijer WE, Zielinski SM, Bhandari M, Patka P, Van Lieshout EM (2015) HEALTH and FAITH Trial Investigators Reliability, validity, and responsiveness of the Western Ontario and McMaster Universities Osteoarthritis Index for elderly patients with a femoral neck fracture *J Bone Joint Surg Am* 2015 May 6;97(9):751-7
49. Sardar Z, Alexander D, Oxner W, du Plessis S, Yee A, Wai EK, Anderson DG, Jarzem P (2015) Twelve-month results of a multicenter, blinded, pilot study of a novel peptide (B2A) in promoting lumbar spine fusion *J Neurosurg Spine* 2015 Apr;22(4):358-66
50. Roffey DM, Dagenais S, Findlay T, Marion TE, McIntosh G, Shamji MF, Wai EK (2015) Obesity, Weight Loss, and Low Back Pain: An Overview for Primary Care Providers—Part 2 *Journal of Current Clinical Care - Back Health Section*
51. Roffey DM, Dagenais S, Findlay T, Marion TE, McIntosh G, Shamji MF, WAI EK (2015) Obesity, Weight Loss, and Low Back Pain: An Overview for Primary Care Providers—Part 1 *Journal of Current Clinical Care - Back Health Section*
52. Akshay S, Roffey DM, Wai EK (2014) Critical Appraisal of the Literature: Systematic Reviews and Meta-analyses *COA Bulletin*

53. Chen S, Zhao L, Roffey DM, Phan P, Wai EK (2014) Association between the ESR1 351A>G single nucleotide polymorphism (rs9340799) and adolescent idiopathic scoliosis: a systematic review and meta-analysis *Eur Spine J* 2014 Dec;23(12):2586-93
54. Chen S, Zhao L, Roffey DM, Phan P, Wai EK (2014) Association of rs11190870 near LBX1 with adolescent idiopathic scoliosis in East Asians: a systematic review and meta-analysis *Spine J* 2014 Dec 1;14(12):2968-75
55. Zielinski SM, Keijsers NL, Praet SF, Heetveld MJ, Bhandari M, Wilssens JP, Patka P, Van Lieshout EM (2014) FAITH Trial Investigators Functional outcome after successful internal fixation versus salvage arthroplasty of patients with a femoral neck fracture *J Orthop Trauma* 2014 Dec;28(12):e273-80
56. Shamji MF, Roffey DM, Young DK, Reindl R, Wai EK (2014) A Pilot Evaluation of the Role of Bracing in Stable Thoracolumbar Burst Fractures Without Neurologic Deficit *J Spinal Disord Tech* 2014 Oct;27(7):370-5
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Conference Published Abstracts

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2. Visva S, AlDuwaisan A, Moravek D, Wai E, Kingwell S, Stratton A, Phan P, CSORN Investigators. A CSORN study: comparison between primary and revision lumbar decompression outcomes. Canadian Spine Society Feb 2021 and COA June 2021
3. DeVries, Hoda M, Rivers CS, Maher A, Wai EK, Moravek M, Stratton A, Kingwell S, Fallah N, Paquet J, Phan P, The RHSCIR Network. Development of an unsupervised machine learning algorithm for the prognostication of walking ability in spinal cord injury patients IEEE International Conference on Multimedia and Expo (ICME) July 2020
4. Kaelan Gobeil Odai, Hamid Nessek, Eugene Wai, Philippe Phan. Podium Clinical outcome correlation of diffusion tensor imaging and magnetic resonance imaging values: a systematic review. Canadian Spine Society Annual Meeting. 2020 Feb.
5. Alexandra Stratton, Philippe Phan, Eugene Wai, Stephen Kingwell, Dita Moravek, Sarah Tierney. The effect of preoperative opioid use on hospital length of stay in patients undergoing elective spine surgery. Podium. Canadian Spine Society Annual Meeting. 2020 Feb.
6. Stephen Kingwell, Szymon Wilk, Eugene Wai, Philippe Phan, Alexandra Stratton, Safraz Mohammed, Eve Tsai, Fahad Alkerayf, Wojtek Michalowski. Podium. Postoperative complication prediction between spinal surgeons and a machine learning model: a comparative study. Canadian Spine Society Annual Meeting. 2020 Feb.
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9. Ahn H, Davtyan A, Bailey C, Christie S, Wai EK, et al. Are There Gender Based Differences in Outcomes for Elective Lumbar Spine Surgery in Canada. Canadian Spine Society Annual Meeting. Feb 2019. Toronto, Canada
10. Hebert J, Abraham E, Wedderkopp N, Bigney N, Richardson E, Darling M, Wai EK, et al. Patients Undergoing Surgery for Lumbar Spinal Stenosis Experience Unique Courses of Pain and Disability: A Group-Based Trajectory Analysis. Canadian Spine Society Annual Meeting. Feb 2019. Toronto, Canada
11. Vu K, Phan P, Stratton A, Kingwell S, Hoda M, Wai EK. Impact of Resident Involvement on Cervical and Lumbar Spine Surgery Outcomes. Canadian Spine Society Annual Meeting. Feb 2019. Toronto, Canada
12. Gauthier P, Le NC, Stratton A, Phan P, Kingwell S, Wai EK. Small Area Variation in Compliance with Clinical Practice Guidelines in the Management of Acute Low Back Pain. Canadian Spine Society Annual Meeting. Feb 2019. Toronto, Canada
13. Maher A, Phan P, Hoda M, Stratton A, Kingwell S, Wai EK. Understanding Surgeon Decision Making and Current Surgical Practice Regarding the DSIC Scheme and DLS Treatment: A CSORN Study Podium Presented at Canadian Spine Society Annual Meeting. Feb 2019. Toronto, Canada
14. Hicks K, Zhao Y, Fallah N, Rivers C, Noonan V, Plashkes T, Wai E, Roffey R, Tsai E, Phan P (2017) A simplified clinical prediction rule for prognosticating independent walking after spinal cord injury: a prospective study from a Canadian multicentre spinal cord injury registry In *Canadian Spine Society*
15. Higher Adverse Events and Longer Lengths of Stay for Posterior Compared to Anterior Cervical Spinal Surgery. Findings from a Multivariate Adjusted Analysis of a Multicentre North American Prospective Database Mohammed AlSawat^{1,2}, Stephanie De Vere¹, Alexandra Stratton¹, Philippe Phan¹, Stephen Kingwell¹, Eugene K. Wai¹ Podium Presented at Canadian Spine Society Annual Meeting. Feb 2019. Toronto, Canada
16. Hypoalbuminemia in Elective Lumbar Spine Surgery as a Risk Factor for Increased Complications and Length of Stay: An Analysis of the National Surgical Quality Improvement Program (NSQIP) Database Stephanie de Vere, Eugene Wai, Dita Moravek¹, Philippe Phan, Alexandra Stratton, Stephen Kingwell Podium Presented at Canadian Spine Society Annual Meeting. Feb 2019. Toronto, Canada
17. Personalized Risk Prediction in Spinal Surgery Stephen Kingwell¹, Enea Parimbelli², Philippe Phan¹, Alexandra Stratton¹, Eugene Wai¹, Wojtek Michalowski² Podium Presented at Canadian Spine Society Annual Meeting. Feb 2019. Toronto, Canada
18. The Effect of Peri-Operative Dexmedetomidine on Analgesic Outcomes in Adult Patients Undergoing Elective Spine Surgery: A Systematic Review and Meta-Analysis of Randomized Controlled Trials Alexandra Stratton, Faraj Abdallah, Eugene Wai, Philippe Phan, Stephen Kingwell, Dita Moravek² Poster Presented at Canadian Spine Society Annual Meeting. Feb 2019. Toronto, Canada
19. Predicting the DSIC Scheme Grade using Machine Learning: A CSORN Study

- Audrey Maher, Philippe Phan, Mohamad Hoda, Alexandra Stratton, Eugene Wai, Stephen Kingwell Poster Presented at Canadian Spine Society Annual Meeting. Feb 2019.
20. Comparing the Prognostic Performance of Area under the Curve and F1-Score using a National Surgery Database Zachary DeVries¹, Mohamad Hoda¹, Stephen Kingwell², Alexandra Stratton, Eugene Wai, Philippe Phan Poster Presented at Canadian Spine Society Annual Meeting. Feb 2019. Toronto, Canada
 21. Comparing the Prognostic Performance of Area under the Curve and F1-Score using a National Surgery Database Zachary DeVries¹, Mohamad Hoda¹, Stephen Kingwell², Alexandra Stratton, Eugene Wai, Philippe Phan Poster Presented at Canadian Spine Society Annual Meeting. Feb 2019. Toronto, Canada
 22. Development of an unsupervised machine learning algorithm for the prognostication of walking ability in spinal cord injury. Zachary DeVries, Mohamad Hoda, Stephen Kingwell, Alexandra Stratton, Eugene Wai, Carly Rivers, Vanessa Noonan, TOva Plashkes, Jerome Paquet, Nader Fallah, Phillipe Phan. Poster Presented at Canadian Spine Society Annual Meeting. Feb 2019. Toronto, Canada
 23. Hussam Jabri, Stephen Kingwell,, Mahmoud Bedaiwy, Mohammed Al-Sawat, Abdulkareem Al-Rabie, Yeye AlQathani, Saad Surur, Philippe Phan,, Eve Tsai, Safraz Mohammed,, Mohamad Hoda, Darren Roffey,, Eugene Wai., Increased risk of infections following blood transfusions in anterior cervical spine surgery. Canadian Spine Society Annual Conference, 2018 February, Banff, Canada
 24. Amedeo Falsetto, Darren Roffey,, Mohamad Hoda, Stephen Kingwell,, Philippe Phan,, Alexandra Stratton, Eugene Wai., Allogeneic blood transfusions and infection risk in singlelevel lumbar posterior decompression: an American College of Surgeons National Surgical Quality Improvement Program study. Canadian Spine Society Annual Conference, 2018 February, Banff, Canada – Also COA, 2018 June, Victoria Canada
 25. Beneficial effects of regular exercise prior to thoracolumbar spinal surgery. Kim Vu, Greg McIntosh,, Darren Roffey, Eve Tsai, Alexandra Stratton, Philippe Phan, Stephen Kingwell¹ Michael Johnson.⁴ Eugene Wai, Canadian Spine Society Annual Conference, 2018 February, Banff, Canada – Also COA, 2018 June, Victoria Canada – Also International Society for Study of Lumbar Spine Annual Meeting in Banff, Canada, May 14-18, 2018
 26. Residents’ and fellows’ participation and postoperative technical surgical outcomes in elective anterior cervical spine surgery. Mahmoud Bedaiwy, Philippe Phan, Stephen Kingwell, Yahya Alqahtani, Mohammad Alswat, Abdulkarim AlRabie, Eugene Wai. Canadian Spine Society Annual Conference, 2018 February, Banff, Canada - Also COA June 2018, Victoria Canada
 27. Increased prevalence of chronic disease in back pain patients living in a car-dependent neighbourhood. Amy Zeglinski-Spinney, Darren Roffey, Stephen Kingwell,, Philippe Phan,, Denise Wai. Eugene Wai,,,. Canadian Spine Society Annual Conference, 2018 February, Banff, Canada
 28. Patient expectations in spine surgery: a national Canadian perspective. Mayilee Canizares, Andrew Glennie, Ken Thomas, Christopher Bailey, Sean Christie, Eugene Wai, Charles

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29. Patients' expectation fulfillment and satisfaction with spine surgery. Mayilee Canizares, Andrew Glennie, Ken Thomas, Christopher Bailey, Sean Christie, Eugene Wai, Charles Fisher,⁶ Anthony Perruccio, Y. Raja Rampersaud. Canadian Spine Society Annual Conference, 2018 February, Banff, Canada
 30. Narcotic use trends in elective thoracolumbar spinal surgery patients. Alexandra Stratton, Greg McIntosh, Phillippe Phan, Stephen Kingwell, Darren Roffey, Eugene Wai. Canadian Spine Society Annual Conference, 2018 February, Banff, Canada – Also COA, 2018 June, Victoria Canada – Also International Society for Study of Lumbar Spine Annual Meeting in Banff, Canada, May 14-18, 2018
 31. Comparing the effect of arthroplasty versus fusion surgery on overall health status in patients with degenerative disc disease. Kim Vu, Stephen Kingwell, Philippe Phan, Alexandra Stratton, Darren Roffey, Mohammed Hoda,¹ Peter Jarzem, Jacques Bouchard.³, Eugene Wai. Canadian Spine Society Annual Conference, 2018 February, Banff, Canada [Poster]
 32. Arthroplasty versus fusion surgery following anterior decompression — the Canadian experience. Sean Christie, Raja Rampersaud, Ken Thomas, Darren Roffey,, Eugene Wai, Canadian Spine Society Annual Conference, 2018 February, Banff, Canada [Poster] – Also COA, 2018 June, Victoria Canada [Poster]
 33. Comparing the Accuracy of Logistic Regression and Artificial Intelligence Models to Predict Ambulatory Outcomes After Traumatic Spinal Cord Injury in AIS B and C: A Prospective Study from a Canadian Multi-centre Spinal Cord Injury Registry Brandon Budhram, ON; Tova Plashkes, BC; Eugene Wai, ON; Travis Marion, ON; Darren Roffey, ON; Qiong Zhang, BC; Jérôme Paquet, QC; Carly Rivers, BC; Nader Fallah, BC; Vanessa Noonan, BC; COA, 2018 June, Victoria Canada
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