

CURRICULUM VITAE

I. PERSONAL INFORMATION:

SUN, Louise, MD, SM, FRCPC, FAHA
300 Pasteur Dr, Rm H3584B, Palo Alto, CA 94305
Phone: 650-497-5513
Email: sunl@stanford.edu

II. EDUCATION AND CREDENTIALS:

Degrees:

Nov 2014 Clinical and Research Fellow Cardiac Anesthesiology, Toronto General Hospital, Canada, Ontario
Jun 2013 Residency Anesthesiology, University of Ottawa, Canada, Ontario
May 2013 Master of Science (SM) Clinical Epidemiology, Harvard University, United States, Massachusetts
Jun 2008 Doctor of Medicine, McMaster University, Canada, Ontario
May 2005 Bachelor of Science in Biomedical Engineering, University of Guelph, Canada, Ontario

Credentials:

Diplomate, Advanced Perioperative Transesophageal Echocardiography, National Board of Echocardiography, Jan 2016
Testimur, Advanced Perioperative Transesophageal Echocardiography, National Board of Echocardiography, Jul 2014
Fellow, Royal College of Physicians and Surgeons of Canada, Ontario, Jun 2013
Certificate of Independent Practice, College of Physicians and Surgeons of Ontario, Jun 2013
Licentiate, Medical Council of Canada, Ontario, Nov 2009

III. PROFESSIONAL APPOINTMENTS:

Academic Work Experience:

Dec 2022 – Professor, Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine, U.S.A., Palo Alto
Oct 2022 – Chief, Division of Cardiothoracic Anesthesiology, Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine, U.S.A., Palo Alto
May 2020 – Associate Professor, Department of Anesthesiology and Pain Medicine, University of Ottawa, Canada, Ontario
May 2020 – Associate Professor, School of Epidemiology and Public Health, University of Ottawa, Canada, Ontario
Jan 2019 – Director, Big Data and Health Bioinformatics Research, University of Ottawa Heart Institute at the Ottawa Civic Hospital, Canada, Ontario
Jan 2019 – Clinician Scientist, University of Ottawa Heart Institute Research Corporation, University of Ottawa Heart Institute at the Ottawa Civic Hospital, Canada, Ontario
Mar 2016 – Adjunct Scientist, Cardiovascular Research Program, Institute for Clinical Evaluative Sciences, Canada, Ontario
2016 – 2020 Assistant Professor, School of Epidemiology and Public Health, University of Ottawa, Canada, Ontario
2015 – 2018 Clinician Investigator, Ottawa Heart Institute Research Corporation, Ottawa Heart Institute Research Corporation, University of Ottawa Heart Institute at the Ottawa Civic Hospital
2015 – 2020 Assistant Professor, Department of Anesthesiology and Pain Medicine, University of Ottawa, Canada, Ontario

University Appointments:

May 2016 – Cross, Medicine, Clinical Epidemiology
Jan 2015 – Primary, Medicine, Anesthesiology

Hospital Privileges:

Jan 2015 – Attending Staff, University of Ottawa Heart Institute at the Ottawa Civic Hospital, Canada, Ontario

IV. HONOURS AND AWARDS:

- 2022 Ontario Ministry of Health Innovation Award for managing surgical waitlists during COVID-19
- 2020 – 2024 National New Investigator Award, Heart and Stroke Foundation of Canada (declined due to COVID-19)
- 2020 – 2025 Tier 2 Clinical Research Chair in Big Data and Cardiovascular Outcomes, University of Ottawa
- 2020 COVID-19 Recognition Award for Exceptional Productivity and Clinical Operations, University of Ottawa
- 2020 Top 10% of reviewers for Anesthesiology (Journal) in 2019
- 2019 Dr. Robert Roberts Award for Research Excellence, University of Ottawa Heart Institute
- 2019 Fellow of the American Heart Association (FAHA)
- 2019 Junior Faculty Excellence Award, University of Ottawa
- 2019 Designated as a top reviewer for the Annals of Internal Medicine in 2018
- 2018 Vivien Thomas Young Investigator Award Finalist, American Heart Association
- 2018 Top 3 most-cited papers in Anesthesiology in 2017, “Association of Intraoperative Hypotension with Acute Kidney Injury after Elective Noncardiac Surgery”, Anesthesiology
- 2017 Top 20 cited articles in Anesthesiology in 2016, “Association of Intraoperative Hypotension with Acute Kidney Injury after Elective Noncardiac Surgery”, Anesthesiology
- 2016 Designated as one of the top reviewers for the Annals of Internal Medicine in 2015
- 2013 Finalist, Residents' Competition, Selected as one of the top six resident abstracts at the Canadian Anesthesiologists' Society Meeting, Canadian Anesthesiologists' Society
- 2012 Second Prize, Residents Competition, Canadian Anesthesiologists' Society
- 2012 Best research oral presentation, Department of Anesthesiology, University of Ottawa, Canada, Ontario
- 2012 Top Oral Research Presentation Award, University of Ottawa Heart Institute, Canada, Ontario

V. SCHOLARLY PUBLICATIONS:

Summary count according to the following categories:

Peer-reviewed publications: original investigation.....	72
Peer-reviewed publications: other	23
Book chapters	3
Books	1
Reports.....	2
Encyclopedia entries.....	2
Abstracts in refereed conference proceedings	35
Patents.....	4
Others.....	174

Peer-Reviewed Publications: Original Investigation

1. Dafaalla M, Abdel-Qadir H, Gale CP, **Sun LY**, López-Fernández T, Miller RJH, Wojakowski W, Nolan J, Rashid M, Mamas MA. (2023). Outcomes of ST elevation myocardial infarction in patients with cancer; a nationwide study. *Eur Heart J Qual Care Clin Outcomes*. *qcad012*.
2. **Sun LY**, Anna Chu, Derrick Y. Tam, Xuesong Wang, Jiming Fang, Peter C. Austin, Christopher M. Feindel, Vicki Alexopoulos, Natasa Tusevljak, Rodolfo Rocha, Maral Ouzounian, Graham Woodward, Douglas S. Lee. (2023). Derivation and validation of predictive indices for cardiac readmission after coronary and valvular surgery – A multicenter study. *American Heart Journal Plus: Cardiology Research and Practice*, 100285, ISSN 2666-6022
3. Kobo O, Abramov D, Davies S, Ahmed SB, **Sun LY**, Mieres JH, Parwani P, Siudak Z, Van Spall HGC, Mamas MA. (2022). CKD-Associated Cardiovascular Mortality in the United States: Temporal Trends From 1999 to 2020. *Kidney Med.*;5(3):100597.
4. Rubens FD, Clarke AE, Lee DS, Wells GA, **Sun LY**. (2022). Population Study of Sex-Based Outcomes After Surgical Aortic Valve Replacement. *CJC Open.*;5(3):220-229.
5. Rahmouni El Idrissi K, Nantsios A, Wharmby G, **Sun LY**, Issa HM, Kandolin R, Messika-Zeitoun D, Glineur D, Ruel M, Mesana T. (2022). Pulmonary Artery Pulsatility Index Predicts Intermediate Survival Following Mitral Valve Repair. *Open Heart*. *In press*.
6. Mai AS, Matetic A, Elgendy IY, Mattei JL, Kotronias RA, **Sun LY**, Yong JH, Bagur R, van Spall H, Mamas MA. (2022). The Association Between Cancer Diagnosis, Care, and Outcomes in 1 Million Patients Hospitalized for Acute Pulmonary Embolism. *International Journal of Cardiology*. *Online first*.
7. **Sun LY**, Zghebi SS, Bader Eddeen A, Liu PP, Lee DS, Tu K, Tobe SW, Kontopantelis E, Mamas MA. (2022). Derivation and external validation of a clinical model to predict heart failure onset in patients with incident diabetes. *Diabetes Care*. 45(11):2737-2745.
8. Kobo O, Moledina SM, Mohamed MO, Sinnarajah A, Simon J, **Sun LY**, Bond RM, Slawnych M, Fischman DL, Roguin A, Mamas MA. (2022). Palliative Care Use in Patients with Acute Myocardial Infarction and Do-Not-Resuscitate Status (From a nationwide inpatient cohort). *Mayo Clinic Proceedings*. S0025-6196(22)00514-6.
9. Raisi-Estabragh Z, Kobo O, Elbadawi A, Velagapudi P, Sharma G, Bullock-Palmer R, Petersen SE, Mehta LS, Ullah W, Roguin A, **Sun LY**, Mamas MA. (2022). Differential patterns and outcomes of over 20.6 million cardiovascular emergency department encounters for men and women in the USA. *JAHA*. *Sept 8:e026432*.
10. Fottinger A, Bader Eddeen A, Lee DS, Woodward G, **Sun LY**. (2022). Derivation and validation of pragmatic clinical models to predict hospital length of stay after cardiac surgery in Ontario, Canada. *CMAJ Open*. 11(1):E180-E190.
11. Wijeyesundera HC, Abdel-Qadir H, Qiu F, Manoragavan R, Austin PC, Kapral MK, Kwong JC, **Sun LY**, Ross HJ, Roifman I, Yu AY, Chu A, McAlister FA, Lee DS, Udell J. (2022). Relationship of Frailty with Excess Mortality during the COVID-19 pandemic: a population-level study in Ontario, Canada. *Aging Clinical and Experimental Research*. *Online ahead of print*.
12. **Sun LY**, Jabagi H, Fang J, Lee DS. (2022). Comparison of Multidimensional Frailty Instruments in the Prediction of Long-Term Patient-Centered Outcomes after Cardiac Surgery. *JAMA Netw Open*. 5(9):e2230959.
13. MacMillan YS, Mamas MA, **Sun LY**. (2022). IGFBP7 as a preoperative predictor of congestive acute kidney injury after cardiac surgery. *Open Heart*. 9(1):e002027.
14. Stickels CP, Nadarajah R, Gale CP, Jiang H, Sharkey KJ, Gibbison B, Holliman N, Lombardo S, Schewe L, Sommacal M, **Sun LY**, Weir-McCall J, Cheema K, Rudd JHF, Mamas MA, Erhun F. (2022). Aortic stenosis post-COVID-19: A mathematical model on waiting lists and mortality. *BMJ Open*. 12(6):e059309.
15. Chan E, Rooprai J, Rodger J, Visintini S, Rodger N, Philip S, Mielniczuk L, **Sun LY**. (2022). Sex-Based Differences in Referral of Heart Failure Patients to Outpatient Clinics: a Scoping Review. *ESC Heart Failure*. *Online ahead of print*.

16. Chu A, Sha BR, Rashid M, Booth GL, Fazli GS, Tu K, **Sun LY**, Abdel-Qadir H, Yu CH, Shin S, Connelly KA, Tobe S, Liu PP, Lee DS. (2022). Trends in glucose testing among individuals without diabetes in Ontario between 2010 and 2017: a population-based cohort study. *CMAJ Open*. 10(3):E772-E780.
17. Petrosyan Y, Mesana TG, **Sun LY**. (2022). Prediction of Acute Kidney Injury Risk After Cardiac Surgery: Using a Hybrid Machine Learning Algorithm. *BMC Medical Informatics and Decision Making*. 22(1):137.
18. Leir SA, **Sun LY**, Fraser A. (2022). Representation of patient diversity in anesthesia curricular materials. *Can J Anaesth*. Online ahead of print.
19. **Sun LY**, Wijeyesundera HC, Lee DS, van Diepen S, Ruel M, Bader Eddeen A, Mesana TG. (2022). Derivation and Validation of a Hybrid Machine Learning Model to Predict Death on the Waitlist for Cardiac Surgery. *CMAJ Open*. 10(1):E173-E182.
20. He JW, **Sun LY**, Wijeyesundera DN, Vogt K, Jones PM. (2022). Patient sex and postoperative outcomes after inpatient intra-abdominal surgery: A population-based retrospective cohort study. *Anesthesiology*. Online ahead of print.
21. **Sun LY**, Jones PM, Wijeyesundera DN, Mamas MA, Bader Eddeen A, O'Connor J. (2022). Association between handover of anesthesiology care and one-year mortality among adults undergoing cardiac surgery. *JAMA Network Open*. 5(2):e2148161.
22. Brown, SA, Sparapani R, Osinski K, Zhang J, Blessing J, Cheng F, Hamid A, Berman G, Lee K, BagheriMohamadiPour M, Castrillon J, Kothari AN, Caraballo P, Noseworthy P, Johnson RH, Hansen K, **Sun LY**, Crotty B, Cheng YC, Olson J; for the Cardio-Oncology Artificial Intelligence Informatics & Precision (CAIP) Research Team Investigators. (2022). Establishing an interdisciplinary research team for cardio-oncology artificial intelligence informatics precision and health equity. *American Heart Journal Plus*. 13:100094.
23. Miranda RN, Qiu F, Manoragavan R, Fremes SE, Lauck SB, **Sun LY**, Tarola C, Tam DY, Mamas MA, Wijeyesundera HC. (2022). Drivers and Outcomes of Variation in Surgical versus Transcatheter Aortic Valve Replacement in Ontario, Canada: a population-based study. *Open Heart*. 9(1):e001881.
24. Moledina SM, Nolan J, Nakao K, **Sun LY**, Wilton SB, Volgman AS, Gale CP, Mamas MA. (2021). Addressing disparities of care in non-ST-segment elevation myocardial infarction (NSTEMI) patients without standard modifiable risk factors: insights from a nationwide cohort study. *European Journal of Preventive Cardiology*. Dec 13:zwab200.
25. **Sun LY**, Chu A, Tam DY, Wang X, Fang J, Austin PC, Feindel CM, Oakes GH, Alexopoulos V, Tusevlijak N, Ouzounian M, Lee DS, on behalf of the CorHealth Ontario Cardiac Surgery Risk Adjustment Task Group. (2021). Derivation and multicenter validation of predictive indices for 30-day mortality after coronary and valvular surgery in Ontario, Canada. *CMAJ*. 193 (46) E1757-E1765.
26. Dafaalla M, Rashid M, **Sun LY**, Quinn T, Timmis A, Wijeyesundera H, Bagur R, Michos E, Curzen N, Mamas MA. (2021). Impact of availability of catheter laboratory facilities on management and outcomes of acute myocardial infarction presenting with out of hospital cardiac arrest. *Resuscitation*. S0300-9572(21)00438-X. Online ahead of print.
27. McAlister FA, Wang T, Wang X, Chu A, Goodman SG, van Diepen S, Jackevicius CA, Kaul P, Udell J, Ko DT, Kwong JC, Austin PC, Lee DS; CORONA Collaboration. (2021). Statins and SARS-CoV-2 Infection: Results of a Population-Based Prospective Cohort Study of 469 749 Adults From 2 Canadian Provinces. *J Am Heart Assoc*. Oct 23:e022330.
28. Kobo O, Moledina SM, Slawnych M, Sinnarajah A, Simon J, Van Spall H, **Sun LY**, Zoccai GB, Roguin A, Mohamed MO, Mamas MA. (2021). Predictors, Treatments and Outcomes of Do-Not-Resuscitate Status in Acute Myocardial Infarction patients (From a Nationwide Inpatient Cohort Study). *American Journal of Cardiology*. 159:8-18.
29. Kobo O, Khattak S, Lopex-Mattei J, Van Spall H, Graham M, Cheng R, Osman M, **Sun L**, Ullah W, Fischman D, Mohamed MO, Mamas MA. (2021). Trends in Cardiovascular mortality of cancer patients in the US over two

decades 1999-2019. *Int J Clin Pract. Online ahead of print.*

30. Moledina SM, Shoaib A, **Sun LY**, Myint PK, Kotronias R, Shah B, Gale CP, Quan H, Bagur R, Mamas MA. (2021). Impact of the admitting ward on care quality and outcomes in non-ST-segment elevation myocardial infarction (NSTEMI): insights from a national registry. *European Heart Journal: Quality of Care and Clinical Outcomes. Sep 4:qcab062. Online ahead of print.*
31. **Sun LY**, Bader Eddeen A, Wijeyesundera HC, Mamas M, Tam DY, Mesana TG. (2021). Derivation and Validation of a Clinical Model to Predict Death or Cardiac Hospitalizations on the Cardiac Surgery Waitlist. *CMAJ. 193:E133-40.*
32. **Sun LY**, Boet S, Chan V, Lee DS, Mesana TG, Bader Eddeen A, Etherington C. (2021). Impact of surgeon and anaesthesiologist sex on patient outcomes after cardiac surgery: a population-based study. *BMJ Open. 11(8):E051192.*
33. Ngu JMC, Wharmby GE, Rodger J, Vo TX, Guo MH, Visintini S, Wells GA, Hossain A, Ruel M, Beanlands RS, Liu PP, Boet S, **Sun LY**. (2021). Left Ventricular Function Recovery After Coronary Revascularization and Medical Therapy: A Systematic Review and Meta-Analysis. *F1000 Research. 10:816.*
34. Nandiwada S, Islam S, Jentzer JC, Miller PE, Fordyce CB, Lawler P, Alviar C, **Sun LY**, Dover DC, Lopes RD, Kaul P, van Diepen S. (2021). The Association between Cardiac Intensive Care Unit Mechanical Ventilation Volumes and In-Hospital Mortality. *European Heart Journal: Acute Cardiovascular Care. Jul 19:zuab055. Online ahead of print.*
35. Tam DY, Qiu F, Manoragavan R, Fremes S, Hassan A, Ko D, Lauck S, Naimark D, Ouzounian M, Sanders B, **Sun LY**, Wijeyesundera H. (2021). The impact of the COVID-19 pandemic on cardiac procedure waitlist mortality in Ontario, Canada. *Canadian Journal of Cardiology. S0828-282X(21)00284-1.*
36. **Sun LY**, Bader Eddeen A, Mesana TG. (2021). Disability-Free Survival after Major Cardiac Surgery in a Population-Based Cohort. *CMAJ Open. 9(2):E384-E393.*
37. **Sun LY**, Rodger J, Duffett L, Tulloch H, Crean AM, Chong AY, Rubens FD, MacPhee E, Mesana TG, Lee DS, van Diepen S, Beanlands RS, Ruel M, Julien AM, Bilodeau J. (2021). Derivation of Patient-Defined Adverse Cardiovascular and Noncardiovascular Events through a Modified Delphi Process. *JAMA Network Open. 4(1):e2032095.*
38. Sunner M, Qiu F, Manoragavan R, Roifman I, Tam DY, Fremes S, **Sun LY**, Rahal M, Woodward G, Austin PC, Wijeyesundera HC. (2021). Predictors of Cumulative Cost for Patients with Severe Aortic Stenosis Referred for SAVR or TAVR: A Population-Based Study in Ontario, Canada. *European Heart Journal - Quality of Care and Clinical Outcomes. 7(3):265-272.*
39. **Sun LY**, Mielniczuk LM, Liu PP, Beanlands R, Chih S, Davies R, Coutinho T, Lee DS, Austin PC, Bader Eddeen A, Tu JV. (2020). Sex-Specific Temporal Trends in Ambulatory Heart Failure Incidence, Mortality and Hospitalization in Ontario, Canada from 1994-2013: a Population-Based Cohort Study. *BMJ Open. 10(11):e044126.*
40. **Sun LY**, Bader Eddeen A, Ruel M, MacPhee E, Mesana TG. (2020). Derivation and Validation of a Clinical Model to Predict Intensive Care Unit Length of Stay after Cardiac Surgery. *JAHA. 9(21):e017847.*
41. Etherington E, Deng M, Boet S, Johnston A, Mansour F, Said H, Zheng K, **Sun LY**. (2020). The impact of physician sex/gender on processes of care, and clinical outcomes in cardiac operative care: A systematic review. *BMJ Open. 10(9):e037139.*
42. Tam DY, Dharma C, Rocha R, Farkouh M, Abdel-Qadir H, **Sun LY**, Wijeyesundera H, Austin P, Udell J, Gaudino M, Fremes S, Lee DS. (2020). Improved long-term survival with coronary artery bypass grafting compared to percutaneous coronary intervention in diabetics. *J Am Coll Cardiol. 76(10):1153-1164.*
43. Mamas MA, Brown SA, **Sun LY**. (2020). Coronary Artery Disease in Cancer patients; It's always the small pieces that make the bigger picture. *Mayo Clinic Proceedings. 95(9):1819-1821.*
44. Mohamed W, Mohamed MO, Hirji S, Ouzounian M, **Sun LY**, Percy E, Mamas MA. (2020). Trends in Sex-based

- Differences in Outcomes following Coronary Artery Bypass Grafting in the United States between 2004 and 2015. *International Journal of Cardiology*. S0167-5273(20)33487-2.
45. Boet S, Katznelson R, Castellucci L, Booth R, Gonevski M, Soibelman F, Clarke H, Etherington N, Burns J, Gagné S, Djaiani G, Moffett S, Pollock NW, Proulx L, **Sun LY**, Thavorn K, Wherrett C, Thompson C, Blatteau JE, Louge P, Pignel R, Roth V, MacDonald J, Taljaard M. (2020). Multicentre randomized controlled trial of hyperbaric versus normobaric oxygen therapy for COVID-19 patients. *medRxiv*. Access at: <https://www.medrxiv.org/content/10.1101/2020.07.15.20154609v1>. doi: <https://doi.org/10.1101/2020.07.15.20154609>
 46. Ristovic V, de Roock S, Mesana TG, van Diepen S, **Sun LY**. (2020). The Impact of Preoperative Risk on the Association Between Hypotension and Mortality After Cardiac Surgery. *Journal of Clinical Medicine*. 30;9(7):E2057
 47. **Sun LY**, Gaudino M, Chen RJ, Bader Eddeen A, Ruel M. (2020). Long-Term Outcomes of Patients with Severely Reduced Left Ventricular Ejection Fraction Undergoing Percutaneous Coronary Intervention versus Coronary Artery Bypass Grafting. *JAMA Cardiology*. 5(6):631-641.
 48. Ngu J, Jabagi H, Chung A, Boodhwani M, Ruel M, Bourke M, **Sun LY**. (2020). Defining an intraoperative hypotension threshold in association with de novo renal replacement therapy after cardiac surgery. *Anesthesiology*. 132(6):1447-1457.
 49. **Sun LY**, Spence S, Benton S, Beanlands R, Bader Eddeen A, Lee DS. (2020). Age, Not Sex, Modifies the Effect of Frailty on Long-term Outcomes after Cardiac Surgery. *Annals of Surgery*. Online first June 24.
 50. Hayatsu Y, Ruel M, Bader Eddeen A, **Sun LY**. (2020). Single versus Multiple Arterial Revascularization in Patients with Reduced Renal Function: Long-Term Outcome Comparisons in 23,406 CABG Patients from Ontario, Canada. *Annals of Surgery*. Online first June 11.
 51. Rubens FD, Coutinho T, Bader Eddeen A, **Sun LY**. (2020) The impact of a second arterial conduit on longterm post-discharge outcomes in women and men after coronary artery bypass grafting. *Journal of Thoracic and Cardiovascular Surgery*. S0022-5223(20)31007-2.
 52. Zelt JGE, Hossain A, **Sun LY**, Mehta S, Chandy G, Davies RA, Contreras-Dominguez V, Dunneb R, Doyle-Cox C, Wells G, Stewart DJ, Mielniczuk LM. (2020). Incorporation of Renal Function in Mortality Risk Assessment for Pulmonary Arterial Hypertension. *Journal of Heart and Lung Transplantation*. S1053-2498(20):31487.
 53. Hoang-Kim A, Parpia C, Freitas C, Austin PC, Ross HJ, Wijeyesundera H, Tu K, Mak S, Farkouh ME, **Sun LY**, Schull MJ, Mason R, Lee DS, Rochon PA. (2020). Readmission Rates Following Heart Failure: A Scoping Review of Sex and Gender Based Considerations. *BMC Cardiovascular Disorders*. 20(1):223.
 54. Monaco F, Di Prima AL, Kim JH, Plamondon MJ, Yavorovskiy A, Likhvantsev V, Lomivorotov V, Hajjar LA, Landoni G, Riha H, Farag AMGA, Gazivoda G, Lei C, Bradic N, El-Tahan MR, Bukamal NAR, **Sun LY**, Wang CY. (2020). Management of Challenging Cardiopulmonary Bypass Separation. *J Cardiothorac Vasc Anesth*.
 55. Johnston A, Mesana TG, Lee DS, Bader Eddeen A, **Sun LY**. (2019) Sex Differences in Long-Term Survival After Major Cardiac Surgery: A Population-Based Cohort Study. *JAHA*, 8(17):e013260.
 56. **Sun LY**, Kimmoun A, Takagi K, Liu PP, Bader Eddeen A, Mebazaa A. (2019). Ethnic Differences in Acute Heart Failure Outcomes in Ontario. *International Journal of Cardiology*, 291:177-182.25.
 57. Jabagi H, Boodhwani M, Tran DT, **Sun LY**, Wells G, Rubens FD. The Effect of Preoperative Anemia on Patients Undergoing Cardiac Surgery: A Propensity-Matched Analysis. *Semin Thorac Cardiovasc Surg*. 2019;31(2):157-163.
 58. Verma S, Southern DA, Raslan I, Norris CM, Graham MM, Bagshaw SM, Nagendran J, MacClure T, **Sun LY**, Chin WD, van Diepen S. (2019). Prospective validation and refinement of the APPROACH cardiovascular surgical intensive care unit readmission score. *Journal of Critical Care*. 54:117-121.
 59. Zelt JGE, Mielniczuk LM, Liu PP, Dupuis JY, Chih S, Akbari A, **Sun LY**. (2018). Utility of Novel Cardiorenal Biomarkers in the Prediction and Early Detection of Congestive Kidney Injury Following Cardiac Surgery. *J. Clin. Med*, 7(12), 540.

60. **Sun LY**, Tu JV, Bader Eddeen A, Liu PP. (2018). Long-Term Survival After Coronary Artery Bypass Grafting in Men and Women with Heart Failure and Preserved vs Reduced Ejection Fraction. *Journal of the American Heart Association*, 7(12), pii: e008902.
61. Tran DTT, Tu JV, Dupuis JY, Bader Eddeen A, **Sun LY**. (2018). Association of Frailty and Long-Term Survival in Patients Undergoing Coronary Artery Bypass Grafting. *JAHA*, 7(15), pii: e009882.
62. **Sun LY**, Tu JV, Coutinho T, Turek M, Rubens F, McDonnell L, Tulloch H, Mielniczuk LM. (2018). Sex Differences in Heart Failure Outcomes in an Ambulatory, Population-Based Cohort. *CMAJ*, 190(28), E848-E854.
63. **Sun LY**, Tu JV, Sherrard H, Coutinho T, Turek M, Rodger N, McDonnell L, Tulloch H, Mielniczuk LM. (2018). Sex-Specific Temporal Trends in Incidence and Mortality for Urban and Rural Ambulatory Heart Failure Patients in Eastern Ontario. *Journal of Cardiac Failure*, pii: S1071-9164(18), 30870-4.
64. **Sun LY**, Chung AM, Farkouh M, Van Diepen S, Weinberger J, Bourke M, Ruel M. (2018). Defining a Perioperative Hypotension Threshold in Association with Stroke in Cardiac Surgery. *Anesthesiology*, 129(3), 440-447.
65. Jagabi H, Boodhwani M, Tran DT, **Sun LY**, Well G, Rubens FD. (2018). The effect of preoperative anemia on patients undergoing cardiac surgery: a propensity-matched analysis. *Seminars in Thoracic and Cardiovascular Surgery*, S1043-0679(18), 30215-6.
66. **Sun LY**, Tu JV, Lee DS, Beanlands RS, Ruel M, Austin PC, Bader Eddeen A, Liu PP. (2018). Disability-Free Survival After Coronary Artery Bypass Grafting in Women and Men with Heart Failure and Preserved versus Reduced Ejection Fraction. *Open Heart*, 5, e000911.
67. Prince SA, McDonnell LM, Turek M, Visintini S, Nahwegahbow AJ, Kandasamy S, **Sun LY**, Coutinho T. (2017). The State of Affairs of Cardiovascular Health Research in Indigenous Women in Canada: a Scoping Review. *Canadian Journal of Cardiology*, 34(4), 437-449.
68. **Sun LY**, Wijeyesundera DN, Tait G, Beattie WS. (2015). Association of Intraoperative Hypotension with Acute Kidney Injury after Elective Noncardiac Surgery. *Anesthesiology*, 123(3), 515-23.
69. **Sun LY**, Gershon AS, Ko DT, Thilen SR, Yun L, Beattie WS, Wijeyesundera DN. (2015). Trends of Pulmonary Function Testing before Non-Cardiothoracic Surgery in a Population-Based Cohort. *JAMA Internal Medicine*, 175(8), 1410-2.
70. Barra L, Ha A, **Sun LY**, Fonseca C, Pope J. (2014). Efficacy of biologic agents in improving the Health Assessment Questionnaire (HAQ) score in established and early rheumatoid arthritis: a meta-analysis with indirect comparisons. *Clin Exp Rheumatol*, 32(3), 333-341.
71. **Sun LY**, Boodhwani M, Baer H, McDonald B. (2013). The association between tracheostomy and sternal wound infection in postoperative cardiac surgery patients. *Canadian Journal of Anesthesia*, 60(7), 684-691.
72. Murphy MJ, Tichauer KM, **Sun LY**, Chen X, Lee TY. (2011). Mean transit time as an index of cerebral perfusion pressure in experimental systemic hypotension. *Physiological Measurement*, 32(4), 395-405.

Peer-Reviewed Publications: Other

1. **Sun LY**, Echefu G, Doshi K, Roberts ML, Hamid A, Cheng RK, Olson J and Brown SA. (2023) Commentary: “Multimodality advanced cardiovascular and molecular imaging for early detection and monitoring of cancer therapy-associated cardiotoxicity and the role of artificial intelligence and big data”. *Front. Cardiovasc. Med.* 10:982028.
2. Jones P, **Sun LY**, Brenner M. (2022). Outcomes from Intraoperative Handovers of Anesthesia Care. *JAMA*. 328(18):1869.
3. Ruel M, Williams A, Ouzounian M, **Sun LY**, Legare JF, Poirier P, Malas T, Farkouh ME, Chedrawy E, Hassan A, Higgins J, Connelly K, McClure RS, Bewick D, Whitlock R, Graham M, Arora R. (2022). Missing the Goal with the 2021 ACC/AHA/SCAI Guidelines for Coronary Artery Revascularization. *Can J Cardiol.* S0828-282X(22)00202-1.

4. Jabagi H, Nantsios A, Ruel M, Mielniczuk LM, Denault AY, **Sun LY**. (2022). A Standardized Definition for Right Ventricular Failure in Cardiac Surgery Patients. *ESC Heart Failure*. 9(3):1542-1552.
5. **Sun LY**. (2021). Personalizing the Management of Cardiac Surgery Patients through Right Heart Biomarkers. *Asian Hospital and Healthcare Management*. 52:27-28.
6. Hayatsu Y, Ruel M, **Sun LY**. (2020). Response to Comment on “Single Versus Multiple Arterial Revascularization in Patients with Reduced Renal Function Long-term Outcome Comparisons in 23,406 CABG Patients from Ontario, Canada”. *Annals of Surgery*. Online ahead of print.
7. **Sun LY**, Gaudino M, Ruel M. (2020). Reply to “Patients with severely reduced ejection fraction undergoing revascularization – is something missing?” *JAMA Cardiology*. 4(2):242.
8. Ruel M, **Sun LY**, Farkouh M, Gaudino M. (2020). Implications of the ISCHEMIA Trial on the Practice of Surgical Myocardial Revascularization. *Journal of Thoracic and Cardiovascular Surgery*. S0022-5223(20)32576-9.
9. **Sun, LY**. (2020). Referee Report For: Validation of EuroSCORE II in patients undergoing coronary artery bypass grafting (CABG) surgery at the National Heart Institute, Kuala Lumpur: a retrospective review. *F1000 Research*, 7(534).
10. Hayatsu Y, Dryden A, Messika-Zeitoun D, **Sun LY**, Mesana T, Ruel M. (2020). Direct implant of a transcatheter aortic valve prosthesis for prosthetic mitral valve endocarditis. *Canadian Journal of Cardiology Open*. 13;2(4):303-305.
11. **Sun LY**. (2020). Preoperative risk, blood pressure, and acute kidney injury. *Anesthesiology*. 132(3):416-417.
12. **Sun LY**, Ruel M. (2019). Hypotension and Stroke in Cardiac Surgery. *Anesthesiology*. 131(1):217-218
13. Kandolin RM, Wiefels CC, Mesquita CT, Chong AY, Boland P, Glineur D, **Sun LY**, Beanlands RS, Mielniczuk LM. (2019). The current role of viability imaging to guide revascularization and therapy decisions in patients with heart failure and reduced LV function. *Canadian Journal of Cardiology*. 35(8): 1015-1029.
14. Jabagi H, Ruel M, **Sun LY**. (2019). Can Biomarkers Provide Right Ventricular-Specific Prognostication after Cardiac Surgery? *Journal of Cardiac Failure*. S1071-9164(19): 30516.
15. Hayatsu Y, Ruel M, **Sun LY**. (2019) Renal Insufficiency and Severe Coronary Artery Disease: Should CABG, OPCAB or PCI be performed? *Current Opinion in Cardiology*. 34(6):645–649.
16. Jagabi H, Mielniczuk LM, Liu PP, Ruel M, **Sun LY**. (2019). Role of Biomarkers in the Diagnosis, Management, and Prognostication of Perioperative Right Ventricular Failure after Cardiac Surgery. *J Clin Med*, 8(4), 559.
17. Ruel M, **Sun LY**, Gaudino MF. (2019). Navigating the SYNTAX Score according to Diabetic Status: What does this mean for the patient requiring myocardial revascularization? *Journal of Thoracic and Cardiovascular Surgery*, pii: S0022-5223(19)31025-6.
18. Ruel M, **Sun LY**. (2019). Postoperative Use of Calcium-Channels Blockers in Patients with a Radial Artery Graft: Do We Now Have a Definitive Answer? *J Am Coll Cardiol*, 14;73(18):2307-2309.
19. Ngu JMC, Ruel M, **Sun LY**. (2018). Left Ventricular Function Recovery After Revascularization: Comparative Effects of PCI and CABG. *Current Opinion in Cardiology*, 33(6), 633-637.
20. Hui SK, **Sun LY**, Ruel M. (2018). Genetics, coronary artery disease, and myocardial revascularization: will novel genetic risk scores bring new answers?. *Indian Journal of Thoracic and Cardiovascular Surgery*, 34(3), 213-221.
21. Ngu JMC, **Sun LY**, Ruel M. (2018). Pivotal contemporary trials of PCI vs CABG: A surgical perspective. *Annals of Cardiothoracic Surgery*, 7(4), 527-532.
22. Hui SK, Lindale E, **Sun LY**, Ruel M. (2018). Genetics of coronary artery disease: should they impact the choice of revascularization?. *Current Opinion in Cardiology*, 33(6), 605-612.
23. Ngu JMC, **Sun LY**. (2018). Referee Report For: Significance of intra-operative blood pressure data resolution: A retrospective, observational study. *F1000 Research*, 7(251).

Book Chapters:

1. **Sun LY**. (2024). Cardiac Anesthesia Words of Wisdom. *Anesthesia Bridges*. Under revision.

2. **Sun LY**, Cheng D. (2023). Heart Transplantation and Subsequent Noncardiac Surgery. *Yao & Artusio's Anesthesiology*. 10th Ed. Under revision.
3. **Sun LY**. (2023). Population Research. *Intelligence-Based Cardiology: Artificial Intelligence and Human Cognition in Cardiovascular Medicine and Cardiac Surgery*. In press.

Books:

1. Editor-in-chief: Anthony Chang. Associate Editors: Francisco Lopez-Jimenez, **Louise Sun**, Alfonso Limon, Rob Brisk. (2023). *Intelligence-Based Cardiology: Artificial Intelligence and Human Cognition in Cardiovascular Medicine and Cardiac Surgery*. In press.

Reports:

1. Beaudry S, Crompton C, vander Kolk J, **Sun LY**, Ramunno L, Bernier M, Erol-Kantarci M, Mercier P, Graham R, Charonneau S, Chung T on behalf of the University of Ottawa Artificial Intelligence Research Community. Editor: Levesque G. (2020). The Needs of Canada's Future Digital Research Infrastructure Ecosystem. *New Digital Research Infrastructure Organization (NDRIO)*.
2. Sherrard H, Rodger N, **Sun LY**. (2017). *Creating A Hub & Spoke Model Of Heart Failure Care In The Champlain Region*.

Encyclopedia Entries:

1. Mielniczuk LM, **Sun LY**. (2020). Trends in heart failure diagnosis for women and men in urban and rural settings in Ontario. *Atlas of Science*. <https://atlasofscience.org/trends-in-heart-failure-diagnosis-for-women-and-men-in-urban-and-rural-settings-in-ontario/>
2. **Sun LY**, Mielniczuk LM. (2020). Sex differences in heart failure outcomes in Ontario, Canada. *Atlas of Science*. <https://atlasofscience.org/sex-differences-in-heart-failure-outcomes-in-ontario-canada/>

Abstracts:

1. Bath K, Etherinton C, **Sun LY**. (2023, June). Investigating the perceptions and well-being of anesthesiologists and perfusionists in the cardiac operating room. In *Canadian Anesthesiologists' Society Meeting*.
2. Rubens FD, Grubic N, Lee DS, **Sun LY**. (2022, May). Population health study of sex-based outcomes after surgical aortic valve replacement. In *American Association for Thoracic Surgery 101st Annual Meeting*.
3. Fottinger A, Bader Eddeen A, Lee DS, Woodward G, **Sun LY**. (2022, May). Derivation and Validation of a Clinical Model to Predict Hospital Length of Stay After Cardiac Surgery. In *Society of Cardiovascular Anesthesiologists. Best of the Meeting Oral Presentation*.
4. MacMillan Y, Liu P, **Sun LY**. (2021, April). IGFBP-7 as a Preoperative Predictor of Acute Kidney Injury in Adults Undergoing Cardiac Surgery. In *Society of Cardiovascular Anesthesiologists. Best of the Meeting Oral Presentation*.
5. O'Connor J, Jones P, Wijeyesundera D, **Sun LY**. (2021, April). Association Between Handover of Anesthesiology Care and One-Year Mortality Among Patients Undergoing Cardiac Surgery. In *Society of Cardiovascular Anesthesiologists. Best of the Meeting Oral Presentation*.

6. Johnston A, Mesana TG, Lee DS, Bader Eddeen A, **Sun LY**. (2021, February). Sex Differences in Long-Term Mortality After Major Cardiac Surgery: A Population-Based Cohort Study. In *Canadian Women's Heart Health Summit - Poster*.
7. Rooprai J, Chan E, Rodger J, Visintini S, Rodger N, Mielniczuk L, **Sun LY**. (2021, February). Sex-Based Differences in Outpatient Specialist Referral Patterns of Heart Failure Patients: A Scoping Review. In *Canadian Women's Heart Health Summit - Poster*.
8. N Clarizia, M Ruel, A Nantsios, D Demarco, BM Hibbert, **Sun LY**. (2019, November). Impact of Revascularization Strategy on Left Ventricular Ejection Fraction Recovery in Patients with Coronary Artery Disease and Severely Reduced Ejection Fraction. In *American Heart Association Scientific Sessions*.
9. S De Roock, TG Mesana, **Sun LY**. (2019, November). Impact of Preoperative Risk on the Association Between Hypotension and Mortality After Cardiac Surgery. In *American Heart Association Scientific Sessions*.
10. S De Roock, TG Mesana, **Sun LY**. (2019, October). Association of Hypotension, Death and Complications After Cardiac Surgery. In *Australian and New Zealand College of Anaesthetists Cardiac Thoracic Vascular and Perfusion Meeting – Oral presentation*.
11. **Sun LY**, Bader Eddeen A, Mesana TG. (2019, October). Disability-free survival after major cardiac surgery: a population-based cohort study. In *Canadian Cardiovascular Congress*.
12. Wharmby G, Kandolin R, Chan V, **Sun LY**. (2019, June). Pulmonary Artery Pulsatility Index Predicts the Need for De Novo Post-Operative Renal Replacement Therapy. In *Canadian Anesthesiologists' Society Meeting - Raymond Prize in Cardiothoracic Anesthesia*.
13. Leir S, Fraser A, **Sun LY**. (2019, June). The GENDER Study: Gender Equality in Newly Designed Medical Education Resources. *Canadian Anesthesiologists' Society Residents' Research Competition*.
14. Rubens F, Wells G, Coutinho T, Bader Eddeen A, **Sun LY**. (2019, May). The Impact of a Second Arterial Conduit on Long-Term Post-Discharge Outcomes in Women and Men After Coronary Artery Bypass Grafting. In *American Association for Thoracic Surgery 99th Annual Meeting - Late Breaking Abstract presentation*.
15. Hayatsu Y, **Sun LY**, Bader Eddeen A, Ruel M. (2019, May). Single versus Multiple Arterial Revascularization in Patients with Reduced Renal Function: Long-Term Outcome Comparisons in 23, 406 CABG patients from Ontario, Canada. In *American Association for Thoracic Surgery 99th Annual Meeting - Late Breaking Abstract presentation*.
16. Leir S, Fraser A, **Sun LY**. (2019, May). The GENDER Study: Gender Equality in Newly Designed Medical Education Resources. In *Meredith Marks Day – Oral presentation*.
17. Johnston A, Mesana TG, Lee DS, Bader Eddeen A, **Sun LY**. (2019, April). Sex Differences in Long-Term Survival After Major Cardiac Surgery: A Population-Based Cohort Study. In *Toronto Ottawa Heart Summit and International Ottawa Heart Conference - Rapid fire presentation*.
18. Rooprai J, Chan E, Rodger J, Visintini S, Rodger N, Mielniczuk L, **Sun LY**. (2019, April). Sex-Based Differences in Outpatient Specialist Referral Patterns of Heart Failure Patients: A Scoping Review. In *Toronto Ottawa Heart Summit and International Ottawa Heart Conference*.
19. **Sun LY**, Chen RJ, Tu JV, Bader Eddeen A, Ruel M. (2018, November). Long-Term Outcomes in Patients With Ischemic Cardiomyopathy: Comparative Effectiveness of Coronary Artery Bypass Grafting Versus Percutaneous Coronary Intervention. In *American Heart Association Scientific Sessions*.
20. **Sun LY**, Chen RJ, Tu JV, Bader Eddeen A, Ruel M. (2018, October). Long-Term Survival in Patients With Ischemic Cardiomyopathy. In *Canadian Cardiovascular Congress*.
21. Ngu JMC, Wharmby G, Rodger J, Vo T, Guo M, Visintini S, Hossain A, Wells G, Boet S, Ruel M, Liu P, Beanlands R, **Sun LY**. (2018, October). Impact of revascularization versus medical therapies on left ventricular functional recovery in patients with reduced ejection fraction and coronary artery disease: A systematic review & network meta-analysis. In *Canadian Cardiovascular Congress*.

22. Zelt JGE, Mielniczuk LM, Liu PP, Dupuis JY, Chih S, Akbari A, **Sun LY**. (2018, June). Utility of Novel Cardiorenal Biomarkers in the Prediction and Early Detection of Congestive Kidney Injury Following Cardiac Surgery. In *Canadian Anesthesiologists' Society Richard Knill Research Competition*.
23. **Sun LY**, Mielniczuk LM, Bader Eddeen A, Tu JV. (2017, October). Temporal trends of heart failure mortality in men and women. In *Canadian Cardiovascular Congress*.
24. Mir Ghassemi A, Ruel M, Chung A, Bourke M, Chen R, **Sun LY**. (2017, June). Pulmonary Artery Pulsatility Index Predicts Need for Inotropic Support Post Cardiac Surgery. In *Canadian Anesthesiologists Society Meeting*.
25. **Sun LY**, Liu PP, Bader Eddeen A, Tu JV. (2017, October). 30-day survival after coronary artery bypass grafting in patients with heart failure and preserved versus reduced ejection fraction. In *Canadian Cardiovascular Congress*.
26. Etherington N, Doering P, Adams T, Birze A, Baron J, Britton M, Brehaut J, Duffy M, Grantcharov T, Grimshaw J, Kitto S, Lortie K, McConnell M, Raiche I, **Sun LY**, Singh S, Taljaard M, Tu J, Boet S. (2017, November). The role of gender in operating room team work: what does it mean for practice interventions and outcomes?. In *Gender Summit*.
27. **Sun LY**, Tu JV, Bader Eddeen, Mielniczuk LM. (2017, October). Sex differences in heart failure incidence and outcomes. In *Canadian Cardiovascular Congress*.
28. **Sun LY**, Ruel M, Liu PP, Bader Eddeen A, Tu JV. (2017, November). Disability-Free Survival After Coronary Artery Bypass Grafting in Patients with Heart Failure and Preserved versus Reduced Ejection Fraction. In *American Heart Association Meeting*.
29. Ngu J, Chung A, Bourke M, **Sun LY**. (2017, November). Association of Intraoperative Hypotension and Renal Replacement Therapy After Cardiac Surgery. In *American Heart Association Meeting*.
30. **Sun LY**, Tu JV, Sherrard H, Rodger N, Mielniczuk LM. (2017, November). Temporal Trends of Heart Failure Hospitalization in Men and Women. In *American Heart Association Meeting*.
31. Chung A, Wells G, Hossain A, Bourke M, **Sun LY**. (2016, June). Association of Intraoperative Hypotension and Cerebrovascular Accidents Post Major Cardiac Surgery. In *Canadian Anesthesiologists Society Meeting*.
32. **Sun LY**, Machina M, Karkouti K, Wijeyesundera D, Beattie WS. (2015, June). Association of Intraoperative Hypotension with Acute Kidney Injury After Cardiac Surgery. In *Canadian Anesthesiologists' Society Meeting*.
33. **Sun LY**, Wijeyesundera D, Tait G, Beattie WS. (2014, March). Hypotension increases the risk of postoperative acute kidney injury. In *Society of Cardiovascular Anesthesiologists*.
34. **Sun LY**, Yang H, Wells G, Devereaux P.J., Guyatt G, Yousef S, Leslie K. (2013, June). Efficacy of metoprolol in preventing cardiovascular complications and all-cause mortality in emergent surgeries. In *Canadian Anesthesiologists Society Meeting*.
35. **Sun LY**, Boodhwani M, Baer H, McDonald B. (2013, January). Association between early tracheostomy and mortality following major cardiac surgery: a propensity-matched analysis. In *Society of Critical Care Medicine*.

Others

i) Broadcast Interviews

1. Interviewer: John Dankosky. (2023, April 21). All You Need to Know About Anesthesia. ScienceFriday, the nationally syndicated NPR show. Recording: <https://www.sciencefriday.com/segments/how-does-anesthesia-work/>
2. Interviewer: Rosey Edeh. (2021, January 15). Heart patients have their say. CTV Morning Live, CTV. [Watch CTV News | Local Video | CTV News Ottawa](#)
3. Interviewer: Dr. Anthony Chang. (2020, May 15). The role of big data in the COVID-19 era. Featured talks: Cardiology. AIMed. <https://ai-med.io/dr-anthony-chang-founder-aimed-speaks-with-dr-louise-sun-anesthesiologist-director-of-big-data-and-informatics-research/>

4. Interviewer: Dr. Bobbie Jean Sweitzer. (2020, February 20). Preoperative risk and the association between hypotension and acute kidney injury, *Anesthesiology* journal, podcast. <http://anesthesiology.libsyn.com>
5. Interviewer: Annette Georner. (2019, September 12). Having a healthy heart: risk factors for women after bypass surgery, CTV Morning Live, CTV. <https://ottawa.ctvnews.ca/video?clipId=1777364&binId=1.1487308&playlistPageNum=1>
6. Interviewer: Alan Neal. (2019, August 29). Women are more likely than men to die after heart surgery, CBC All in a Day, CBC Radio. Retrieved from <https://www.cbc.ca/listen/live-radio/1-92-all-in-a-day/clip/15733778-women-are-more-likely-than-men-to-die-after-heart-surgery?share=true>
7. (2018, November 14). *The biggest concern after heart surgery*. CTV Morning Live. CTV News. Retrieved from <https://ottawa.ctvnews.ca/video?clipId=1539485>
8. (2018, October 20). *Is CABG better than percutaneous coronary intervention?* The Beat. Research Beat. Retrieved from <https://www.ottawaheart.ca/the-beat/2018/10/20/cabg-better-percutaneous-coronary-intervention>
9. Interviewer: Marcia MacMillan. (2018, September 17). *Impact of trans fat ban on heart health*. CTV Morning Live. CTV News National. Retrieved from <https://www.ctvnews.ca/video?clipId=1490682>
10. Interviewer: Campbell, J. (2018, July 20). *Sex difference in heart failure outcomes*. 570 News. Kitchener Radio. Retrieved from <https://twitter.com/570NEWS/status/1019571092799741954>
11. Interviewer: Ross, C. (2018, July 20). *Sex difference in heart failure outcomes*. Zoomer Radio. Toronto. Retrieved from <http://www.zoomerradio.ca/news/latest-news/grim-health-news-women-heart-health>
12. Interviewer: Gibbons, R. (2018, July 18). *Sex difference in heart failure outcomes*. The Rick Gibbons Show. 1310 News. Retrieved from <https://www.1310news.com/audio/the-rick-gibbons-show>
13. (2018, July 16). *Sex difference in heart failure outcomes*. Fifty Wifty. India. Retrieved from <http://www.fiftywifty.com/post/heart-failure-death-rates-higher-women-study-suggests>
14. Interviewer: Travis, A. (2018, July 16). *Sex difference in heart failure outcomes*. KAMC News. Texas. <https://www.everythinglubbock.com/news/kamc-news/medminute-women-at-greater-risk-of-death-from-heart>
15. Interviewer: Hiscox, H. (2018, July 16). *Sex difference in heart failure outcomes*. Morning Live. CBC. Retrieved from <https://www.youtube.com/watch?v=33bMLq37g7M>
16. Interviewer: Neal, A. (2018, July 16). *Sex difference in heart failure outcomes*. All In A Day. CBC. Retrieved from <https://www.cbc.ca/listen/shows/all-in-a-day/segment/15558006>
17. (2018, July 16). *Sex difference in heart failure outcomes*. CTV News Northern Ontario. CTV. Retrieved from <https://northernontario.ctvnews.ca/video?clipId=1428426>
18. Interviewer: Marshall, M. (2018, July 16). *Sex difference in heart failure outcomes*. Health Watch. CBS Boston. Retrieved from <https://www.youtube.com/watch?v=Tb3hGgB-xIY>
19. Interviewer: Goerner, A. (2018, July 16). *Sex difference in heart failure outcomes*. Morning Live. CTV News Ottawa. Retrieved from <https://ottawa.ctvnews.ca/video?clipId=1441153>

ii) Text interviews

1. Interviewer: Gemma Lovegrove. (2022, May 26). Artificial Intelligence in Medicine. Harnessing big data to change the future of anesthesiology. <https://ai-med.io/more-news/harnessing-big-data-to-change-the-future-of-anesthesiology/>
2. Interviewer: Michael O’Riordan. (2022, September 13). TCTMD. [Frailty Before Cardiac Surgery Common, Linked to Adverse Outcomes | tctmd.com](https://www.tctmd.com/news/frailty-before-cardiac-surgery-common-linked-to-adverse-outcomes)
3. Interviewer: Bob Kronemyer. (2022, April 21). Anesthesiology News. [Handovers During Cardiac Surgeries Increase Mortality - Anesthesiology News](https://www.anesthesiologynews.com/handovers-during-cardiac-surgeries-increase-mortality)
4. Interviewer: MD Bureau. (2022, February 23). MD Dialogues. [Complete Anesthesia Handover Is Linked With Unfavourable Outcomes During CV Surgery \(medicaldialogues.in\)](https://www.md-dialogues.com/complete-anesthesia-handover-is-linked-with-unfavourable-outcomes-during-cv-surgery)
5. Interviewer: Scott Baltic. (2022, February 22). Reuters Health. [Anesthesiology handover during cardiac surgery associated with increased mortality - MDAlert.com](https://www.reuters.com/healthcare/anesthesiology-handover-during-cardiac-surgery-associated-with-increased-mortality-2022-02-22/)

6. Interviewer: Jake Engel. (2022, February 16). Physicians Weekly. [Complete-anesthesia-handover-during-cardiac-surgery-associated-with-patient-mortality \(physiciansweekly.com\)](https://www.physiciansweekly.com)
7. Interviewer: Jake Engel and Michael Pratte. (2022, February 15). 2 Minute Medicine. [Complete anesthesia handover during cardiac surgery associated with patient mortality | 2 Minute Medicine](https://www.2minutemedicine.com)
8. Interviewer: Michael O’Riordan. (2022, February 15). TCTMD. [Complete Anesthesia Handover in Cardiac Surgery Leads to Worse Outcomes | tctmd.com](https://www.tctmd.com)
9. Interviewer: Skye Rytenskind. (2021, September 28). How Dr. Louise Sun is Harnessing Big Data to Change Cardiovascular Medicine. Informa Australia. <https://www.informa.com.au/insight/dr-louise-sun/>
10. Interviewer: Leigh Morris. (2021, September 8). Enhancing care, improving outcomes, and optimizing essential resources. The Beat. <https://www.ottawaheart.ca/the-beat/2021/09/08/enhancing-care-improving-outcomes-and-optimizing-essential-resources>
11. Interviewer: Hazel Tang. (2021, August 30). New tool predicts risk of hospitalization and death for patients awaiting cardiac surgery: Waitlist model developed by University of Ottawa Heart Institute to prioritize high-risk patients. AiMed – Global News Roundup from the World of Artificial Intelligence in Medicine. <https://ai-med.io/>
12. Interviewer: Physician’s Weekly. Model predicts risk for patients on waitlist for cardiac surgery. <https://www.physiciansweekly.com/model-predicts-risk-for-patients-on-waitlist-for-cardiac-surgery>
13. Interviewer: Tamires Ferreira. (2021, August 31). Nova ferramenta pode prever risco de morte de pacientes que aguardam cirurgia cardiaca. Olhar Digital. <https://olhardigital.com.br/2021/08/30/medicina-e-saude/nova-ferramenta-pode-prever-risco-de-morte-de-pacientes-que-aguardam-cirurgia-cardiaca/>
14. Interviewer: Health Day. (2021, August 31). Model predicts risk for patients on waitlist for cardiac surgery. <https://consumer.healthday.com/model-predicts-risks-for-patients-on-waitlist-for-cardiac-surgery-2654799476.html> - toggle-gdpr
15. Interviewer: Drugs.com. (2021, August 30). Model predicts risk for patients on waitlist for cardiac surgery. <https://www.drugs.com/news/model-predicts-risk-patients-waitlist-cardiac-surgery-100056.html>
16. Interviewer: Doctors Lounge. (2021, August 30). Model predicts risk for patients on waitlist for cardiac surgery. www.doctorslounge.com/index.php/news/pb/104880
17. Interviewer: Nicole Lou. (2021, August 30). Recent developments of interest in cardiovascular medicine. Medpage Today. <https://www.medpagetoday.com/cardiology/prevention/94297>
18. Interviewer: Leigh Morris. (2021, August 30). Enhancing care, improving outcomes, and optimizing essential resources. University of Ottawa Heart Institute. <https://www.ottawaheart.ca/news/enhancing-care-improving-outcomes-and-optimizing-essential-resources>
19. Interviewer: Kim Barnhardt. (2021, August 30). New tool can predict risk of death, hospitalization for patients awaiting cardiac surgery; New series on artificial intelligence in medicine. Canadian Medical Association Journal. <https://www.eurekalert.org/news-releases/926296>
20. Interviewer: Medical Xpress. (2021, August 30). New tool can predict risk of death, hospitalization for patients awaiting cardiac surgery. <https://medicalxpress.com/news/2021-08-tool-death-hospitalization-patients-awaiting.html>
21. Interviewer: Mohamed Mansour. (2021, August 30). Model predicts the likelihood of death of patients waiting lists for heart surgery. Scientific American. <https://www.scientificamerican.com/arabic/articles/news/predicting-death-risk-hospitalization-for-patients-awaiting-cardiac-surgery/>
22. Interviewer: Ann-Marie Julien. (2021, June 24). PATIENT ENGAGEMENT IN ACTION!: Dr. Sun’s Research on Patient-defined Outcomes of Coronary Artery Disease. UOHI Patient Alumni Association News. <https://www.ottawaheartalumni.ca/en/patient-engagement-in-action-dr-suns-research-on-patient-defined-outcomes-of-coronary-artery-disease/>
23. Interviewer: Scott Buzby. (2021, January 11). Q&A: Clinical outcomes in CVD treatment “may not reflect what patients truly value”. Healio – Cardiology Today. <https://www.healio.com/news/cardiology/20210111/qa-clinical-outcomes-in-cvd-treatment-may-not-reflect-what-patients-truly-value>

24. Interviewer: Leigh Morris. (2021, January 8). *PACE is the new PACE, heart researchers say*. University of Ottawa Heart Institute. <https://www.ottawaheart.ca/news/pace-new-mace-heart-researchers-say>
25. Interviewer: Crystal Phend. (2021, January 5). *The consensus for a composite of endpoints patients care about most*. MedPage Today. <https://www.medpagetoday.com/cardiology/prevention/90534>
26. Interviewer: Hazel Tang. (2020, June 27). "I Will Always be a Mathematician at Heart". AIMed Magazine featured article. https://www.flipsnack.com/AIMed/ai027_aim_magazine_vol3_issue2_2020_text_v4.html
27. Interviewer: Zeena Nackerdien. (2020, April 30). CABG Versus PCI: Which Works Best for Severely Reduced LVEF? <https://www.medpagetoday.org/cardiology/pci/86236?vpass=1>
28. Interviewer: Elsevier Inc. (2020, April 22). Long-Term Outcomes in Patients With Severely Reduced LVEF Undergoing PCI vs CABG. <https://www.practiceupdate.com/content/long-term-outcomes-in-patients-with-severely-reduced-lvef-undergoing-pci-vs-cabg/99102>
29. Interviewer: David Douglas. (2020, April 16). CABG may be better than PCI in those with low LVEF. Reuters Health, New York.
30. Interviewer: Steve Stiles. (2020, April 15). CABG Bests PCI for Early and Late Outcomes in Evidence-Poor Arena of Severe Systolic Dysfunction. <https://www.medscape.com/viewarticle/928789>
31. Interviewer: Shelley Wood. (2020, April 9). *CABG Over PCI for Severe HFrEF Patients With Complex CAD: Observational Data*. TCT MD (Cardiovascular Research Foundation). <https://www.tctmd.com/news/cabg-over-pci-severe-hfref-patients-complex-cadobservational-data>
32. Interviewer: Peggy Peck. (2020, April 9). *Long Term Results Favor CABG – Is This Surprising?* Physician Weekly (Breaking Med). <https://www.physiciansweekly.com/long-term-results-favor-cabg-is-this-surprising/>
33. Interviewer: Darlene Dobkowski. (2020, April 9). *In very low LVEF, CABG has lower MACE, mortality rates vs. PCI*. Healio. <https://www.healio.com/cardiacvascular-intervention/percutaneous-coronary-intervention/news/online/%7B83adc6d2-8d51-4bd9-b2a1-0a7f22706827%7D/in-very-low-lvef-cabg-has-lowermace-mortality-rates-vs-pci>
34. Interviewer: Patrick Campbell. (2020, April 8). *Analysis Finds CABG Bests PCI for CAD Patients with Severely Reduced LVEF*, HCP Live (MD Magazine). <https://www.mdmag.com/medical-news/cabg-bests-pci-for-severely-reduced-lvef>
35. Interviewer: Nicole Lou. (2020, April 8). *CABG vs PCI Showdown in Ischemic Cardiomyopathy — Short- and long-term outcomes alike favor one revascularization strategy in retrospective study*. Medpage Today. <https://www.medpagetoday.com/cardiology/pci/85844>
36. Interviewer: AIMed. (2020, April 3). *AI Champions*. <https://ai-med.io/features/i-will-always-be-a-mathematician-at-heart-dr-louise-sun/>
37. Interviewer: Ottawa Heart Institute Patient Alumni Association. (2020, February 14). *Patients with lived experience share their insight*. <https://www.ottawaheartalumni.ca/en/patients-with-lived-experience-share-their-insight/>
38. Interviewer: Anne Harding. (2019, September 3). *Heart surgery long-term mortality rate higher for women*. Medscape/Reuters Health. <https://www.medscape.com/viewarticle/917525>
39. Interviewer: Ottawa Citizen. (2019, August 28). *Women more likely to die after bypass surgery: Ontario study*. <https://ottawacitizen.com/health/women/women-more-likely-to-die-after-bypass-surgerystudy>
40. Interviewer: AATS Daily News. (2019, May 6). *Boosting CABG outcomes with evidence-based approaches*. https://www.aats.org/aatsimis/AATSWeb/Association/Meetings/Annual_Meeting/99th_Annual_MeetingDaily_News_2019/Monday/Boosting_CABG_Outcomes_With_Evidence-Based_Approaches_.aspx
41. Interviewer: Miriam Shuchman. (2018, September 13). *Closing male–female gaps in clinical care requires addressing entrenched ideas on gender risks*. CMAJ News. Retrieved from <https://cmajnews.com/2018/09/13/closing-male-female-gaps-in-clinical-care-requires-addressing-entren>
42. Interviewer: AnesthesiologyNews.com. (2018, August 29). *Novel Biomarkers Predict Right Ventricular Failure in Cardiac Surgery*. AnesthesiologyNews.com.
43. Interviewer: Austin, R. (2018, August 16). *Compared to Men, Women With Heart Failure from Ontario Have an Increased Risk of Death*. Great Lakes Ledger. Retrieved from <https://greatlakesledger.com/2018/07/16/compared-to-men-women-in-ontario-have-an-increased-risk-to-d>

44. (2018, July 26). *Frailty may predict long-term mortality risk in CABG*. Healio.com. Retrieved from <https://www.healio.com/cardiology/surgery/news/online/%7Bf54b2539-d149-4faa-83c5-19bd06b469f1%7D/fra>
45. Interviewer: Thakar, S. (2018, July 24). *Frailty in younger patients post-CABG may increase mortality*. Cardiovascular Business. <https://www.cardiovascularbusiness.com/topics/coronary-intervention-surgery/frailty-younger-post-cab>
46. (2018, July 23). *Did you know? Frailty may be more deadly in younger heart patients*. The Health Site. Retrieved from <http://www.thehealthsite.com/news/did-you-know-frailty-may-be-more-deadly-in-younger-heart-patients>
47. Interviewer: HospiMedica International Staff Writers. (2018, July 23). *Heart Failure Death Rates Higher in Women*. HospiMedica. <https://www.hospimedica.com/critical-care/articles/294774220/heart-failure-death-rates-higher-in-wom>
48. (2018, July 23). *Not the elderly, frailty may be more deadly in younger heart patients*. Nepal Viral Tube. Retrieved from <https://nepalviraltube.com/235>
49. (2018, July 23). *Not the elderly, frailty may be more deadly in younger heart patients*. Hindustan Times. <https://www.hindustantimes.com/health/not-the-elderly-frailty-may-be-more-deadly-in-younger-heart-pa>
50. (2018, July 23). *Health and Fitness News and Notes*. WRAL.com. Retrieved from <https://www.wral.com/health-and-fitness-news-and-notes/17715830>
51. (2018, July 22). *Frailty may be more deadly in younger heart patients*. Outlook India. Retrieved from <https://www.outlookindia.com/newsscroll/frailty-may-be-more-deadly-in-younger-heart-patients/1354198>
52. (2018, July 22). *Frailty may be more deadly in younger heart patients*. The Siasat Daily. Retrieved from <https://www.siasat.com/news/frailty-may-be-more-deadly-younger-heart-patients-1383667>
53. (2018, July 22). *Frailty may be more deadly in younger heart patients*. Business Standard. Retrieved from <https://www.business-standard.com/article/news-ani/frailty-may-be-more-deadly-in-younger-heart-patie>
54. (2018, July 22). *Frailty has higher impact on survival of younger heart patients*. Deccan Chronicle. Retrieved from <https://www.deccanchronicle.com/lifestyle/health-and-wellbeing/220718/frailty-has-higher-impact-on-s>
55. Interviewer: Shannon, J. (2018, July 20). *Women more likely to die from heart failure than men*. Irish Heart Foundation. Retrieved from <https://irishheart.ie/news/women-more-likely-to-die-from-heart-failure-than-men>
56. (2018, July 20). *Frailty associated with poor survival rates in young heart patients*. News Medical. Retrieved from <https://www.news-medical.net/news/20180720/Frailty-associated-with-poor-survival-rates-in-young-hear>
57. Interviewer: All4Women Contributor. (2018, July 20). *More women die from heart failure than men*. All4Women. <https://www.all4women.co.za/1544954/health/womens-health/more-women-die-from-heart-failure-than-men>
58. (2018, July 20). *Frailty May Be More Deadly in Younger Heart Patients, Study Finds*. The Beat. Retrieved from <https://www.ottawaheart.ca/the-beat/2018/07/20/frailty-may-be-more-deadly-younger-heart-patients-stu>
59. (2018, July 20). *Frailty may be more deadly in younger heart patients, study finds*. Medical XPress. Retrieved from <https://medicalxpress.com/news/2018-07-frailty-deadly-younger-heart-patients.html>
60. (2018, July 19). *Daily Media Digest*. Health research innovation portal. <https://hriportal.ca/daily-media-digest-july-19-2018>
61. (2018, July 19). *Death rates from heart failure higher for women than men*. Science Daily. Retrieved from <https://www.sciencedaily.com/releases/2018/07/180719085427.htm>
62. (2018, July 19). *Death rates from heart failure higher for women than men*. Med Kit. Retrieved from <https://medkit.info/2018/07/19/death-rates-from-heart-failure-higher-for-women-than-men>
63. (2018, July 19). *In Ontario, more women than men die from heart failure (in Russian)*. Russian Week. Retrieved from <http://www.russianweek.ca/news/more-women-than-men-in-ontario-die-of-heart-failure-study-finds>
64. (2018, July 18). *Heart failure death rates higher for women than men*. HeartFailureManagement.org. Retrieved from <https://healthmanagement.org/c/cardio/news/heart-failure-death-rates-higher-for-women-than-men>
65. Interviewer: Bakalar, N. (2018, July 18). *Heart Failure May Be More Lethal in Women*. The New York Times. <https://www.nytimes.com/2018/07/18/well/heart-failure-may-be-more-lethal-in-women.html?rref=collecti>
66. (2018, July 18). *The risk of heart failure in women is higher*. Naaju. Retrieved from <http://naaju.com/turkey/the-risk-of-heart-failure-in-women-is-higher>

67. Interviewer: Relaxnews. (2018, July 17). *Les femmes seraient plus susceptibles de succomber à une insuffisance cardiaque que les hommes*. La Provence. Retrieved from <https://www.laprovence.com/article/sante/5070636/les-femmes-seraient-plus-susceptibles-de-succomber>
68. Interviewer: Health Wellness. (2018, July 17). *Women More Likely Than Men To Die From Heart Failure, Says Study*. Latestly. <https://www.latestly.com/lifestyle/health-wellness/women-more-likely-than-men-to-die-from-heart-fail>
69. Interviewer: Daily Express. (2018, July 17). *Heart failure: women more likely to die from the condition than men - new research*. The Dusk News. Retrieved from <https://thedusknews.com/heart-failure-women-more-likely-to-die-from-the-condition-than-men-new-resea>
70. (2018, July 17). *Heart failure: Women more likely to die from the condition than men – new research*. Express. <https://www.express.co.uk/life-style/health/990158/heart-failure-women-likely-to-die-from-condition>
71. Interviewer: Bakalar, N. (2018, July 17). *Health and Fitness News and Notes*. WRAL.com. Retrieved from <https://www.wral.com/health-and-fitness-news-and-notes/17715830>
72. Interviewer: Bharanidharan, S. (2018, July 17). *More Women Die From Heart Failure Than Men, Study Finds*. Medical Daily. <https://www.medicaldaily.com/more-women-die-heart-failure-men-study-finds-425784>
73. Interviewer: Bharanidharan, S. (2018, July 17). *More Women Die From Heart Failure Than Men: Study*. MSN Lifestyle. <https://www.msn.com/en-ph/health/medical/more-women-die-from-heart-failure-than-men-study/ar-AAAbqLA>
74. Interviewer: Williams, D. (2018, July 17). *Heart Failure Killing More Women Than Men*. Norfolk daily news. http://norfolkdailynews.com/lite_rock/programs/dave_williams/heart-failure-killing-more-women-than-m
75. Interviewer: AFP Relaxnews. (2018, July 17). *Women may be more likely to die from heart failure than men*. Free Malaysia Today. <http://www.freemalaysiatoday.com/category/leisure/2018/07/17/women-may-be-more-likely-to-die-from-he>
76. (2018, July 17). *The risk of heart failure in women is higher*. Vaaju. Retrieved from <https://vaaju.com/turkeyeng/the-risk-of-heart-failure-in-women-is-higher>
77. (2018, July 17). *Heart failure death rates higher in women: Here are the causes, warning signs and symptoms of heart failure*. Times Now. <https://www.timesnownews.com/health/article/heart-failure-death-rates-higher-in-women-causes-10-warn>
78. Interviewer: AFP/Relaxnews. (2018, July 17). *Les femmes seraient plus susceptibles de succomber à une insuffisance cardiaque que les hommes*. Doctissimo Sante. Retrieved from <http://www.doctissimo.fr/sante/news/Les-femmes-seraient-plus-susceptibles-de-succomber-a-une-insuffi>
79. Interviewer: Press Trust of India. (2018, July 16). *Women at higher risk of mortality from heart failure: Study*. Business Standard. <https://www.business-standard.com/article/pti-stories/women-at-higher-risk-of-mortality-from-heart-failure>
80. (2018, July 16). *Ladies, listen up: Risk of death amongst women from heart failure higher than men*. The Economic Times. <https://economictimes.indiatimes.com/magazines/panache/ladies-listen-up-risk-of-death-amongst-women>
81. Interviewer: Laneri, R. (2018, July 16). *Why heart attacks kill more women than men*. New York Post. Retrieved from <https://nypost.com/2018/07/16/why-heart-attacks-kill-more-women-than-men>
82. Interviewer: Purnima. (2018, July 16). *Death rates due to heart failure higher for women than for men*. The Indian Wire. <https://www.theindianwire.com/health-fitness/death-rates-due-heart-failure-higher-women-men-64351>
83. Interviewer: Domina, D. (2018, July 16). *More Women Die From Heart Failure Than Men*. Health Central. Retrieved from <https://www.healthcentral.com/article/more-women-die-from-heart-failure-than-men>
84. Interviewer: Submit, M. (2018, July 16). *Women At Higher Mortality Risk Due To Heart Failure*. Infosurhoy. http://infosurhoy.com/cocoon/saii/xhtml/en_GB/health/women-at-higher-mortality-risk-due-to-heart-fai
85. Interviewer: Canadian Medical Association Journal. (2018, July 16). *Death rates from heart failure higher for women than men*.
86. Interviewer: Payne, E. (2018, July 16). *Death rates from heart failure higher in women, Ottawa study reports*. Ottawa Citizen. <https://ottawacitizen.com/news/local-news/death-rates-from-heart-failure-higher-in-women-ottawa-stud>
87. Interviewer: University of Ottawa Heart Institute Research Beat. (2018, July 16). *Mars and Venus in Heart Failure Outcomes*. <https://www.ottawaheart.ca/the-beat/2018/07/16/mars-and-venus-heart-failure-outcomes-why-women-are-m>

88. Interviewer: Press Trust of India, Toronto. (2018, July 16). *Women at higher risk of mortality from heart failure*. Deccan Herald. <https://www.deccanherald.com/science-and-environment/women-higher-risk-mortality-681566.html>
89. (2018, July 16). *Death rates from heart failure higher for women than men: Study*. Canadian News. Retrieved from <http://canadianews.org/world/2018/07/16/357058-death-rates-from-heart-failure-higher-for-women-than>
90. Interviewer: Hill, S. (2018, July 16). *More women than men in Ontario die of heart failure, study finds*. Ottawa Sun. <https://ottawasun.com/news/local-news/embargoed-more-ontario-women-die-and-are-hospitalized-with-hea>
91. (2018, July 16). *Plus de femmes ontariennes meurent d'insuffisance cardiaque que les hommes, selon une étude*. Nouvelles du Monde. Retrieved from <https://www.nouvelles-du-monde.com/plus-de-femmes-ontariennes-meurent-dinsuffisance-cardiaque-que-le>
92. (2018, July 16). *Mortality from heart failure affects women more*. Tech2. Retrieved from <https://tech2.org/argentina/mortality-from-heart-failure-affects-women-more>
93. (2018, July 16). *Death Rates From Heart Failure Higher For Women Than Men*. Science Magazine. Retrieved from <https://scienmag.com/death-rates-from-heart-failure-higher-for-women-than-men>
94. (2018, July 16). *Mortality from heart failure higher in women*. North Africa News. Retrieved from <http://www.northafricanews.net/news/257678657/mortality-from-heart-failure-higher-in-women>
95. Interviewer: Yuko, E. (2018, July 16). *Why Heart Failure Is More Deadly for Women Than Men*. She Knows. <https://www.sheknows.com/health-and-wellness/articles/1140372/heart-attacks-more-fatal-for-women>
96. (2018, July 16). *Mortality from heart failure higher in women*. The Siasat Daily. Retrieved from <https://www.siasat.com/news/mortality-heart-failure-higher-women-1381500>
97. (2018, July 16). *Women At Higher Mortality Risk Due To Heart Failure: Study*. NDTV. Retrieved from <https://www.ndtv.com/food/women-at-higher-mortality-risk-due-to-heart-failure-study-1884240>
98. Interviewer: Rice, A. (2018, July 16). *Heart Failure: Death Rates Higher for Women, Lower for Men*. Health Thoroughfare. <https://www.healththoroughfare.com/disease/heart-failure-death-rates-higher-for-women-lower-for-men>
99. Interviewer: RelaxNews. (2018, July 16). *Study: Women More Likely to Die of Heart Failure Than Men*. News Max. <https://www.newsmax.com/health/health-news/study-heart-risks-women/2018/07/16/id/871878>
100. Interviewer: Yousif, N. (2018, July 16). *Death rates from heart failure higher for women than men, study says*. The Globe and Mail. <https://www.theglobeandmail.com/canada/article-death-rates-from-heart-failure-higher-for-women-than>
101. Interviewer: Sexton, C. (2018, July 16). *Mortality rates from heart failure are higher among women*. Earth. Retrieved from <https://www.earth.com/news/mortality-rates-heart-failure>
102. Interviewer: archyworld. (2018, July 16). *Heart failure is higher in women than in men*. Archy Worldys. Retrieved from <https://www.archyworldys.com/heart-failure-is-higher-in-women-than-in-men>
103. (2018, July 16). *Mortality from heart failure remains higher in women than men*. NewsMedical.net. Retrieved from <https://www.news-medical.net/news/20180716/Mortality-from-heart-failure-remains-higher-in-women-than>
104. (2018, July 16). *More Ontario women die from heart failure than men, study finds*. Windsor Star. Retrieved from <https://windsorstar.com/news/local-news/embargoed-more-ontario-women-die-and-are-hospitalized-with-h>
- (2018, July 16). *Death rates from heart failure higher for women than men*. Medical Xpress. Retrieved from <https://medicalxpress.com/news/2018-07-death-heart-failure-higher-women.html>
105. Interviewer: Borland, S. (2018, July 15). *Heart failure is more deadly for women as they are 14% more likely than men to die within a year of being diagnosed*. Dailymail.com. Retrieved from http://www.dailymail.co.uk/news/article-5956995/Heart-failure-14-cent-deadly-women-men.html?ns_mchan
106. Interviewer: Anesthesiologynews.com. (2017, February 3). *Hypotension During Bypass Increases Adverse Effects*. <http://www.anesthesiologynews.com/Clinical-Anesthesiology/Article/02-17/Hypotension-During-Bypass-In>
107. Interviewer: AnesthesiologyNews.com. (2015, September 21). *Hypotension Duration and Post-op Acute Kidney Injury*. http://www.anesthesiologynews.com/ViewArticle.aspx?d=Clinical+Anesthesiology&d_id=1&i=September+2015

108. Interviewer: MedicalResearch.com. (2015, June 12). *Preoperative pulmonary function testing decreased after ACP guidelines - a population-based study*. Retrieved from <http://medicalresearch.com/heart-disease/preoperative-pulmonary-function-testing-decreased-after-acp>
109. Interview re: "Trends of Pulmonary Function Testing before Non-Cardiothoracic Surgery in a Population-Based Cohort". JAMA Internal Medicine. 2015 Jun 8. doi: 10.1001/jamainternmed.2015.2087.

VI. GRANTS

Current External Funding:

Date(s)	Source	Type	Investigator	Amount
2023/7 – 2026/6	American Heart Association Career Development Perioperative Cardiovascular Complications of Patients with End-stage Kidney Disease.	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Mentor <u>PI:</u> Vikram Fielding-Singh <u>Mentors:</u> Glenn Chertow, Louise Sun, Arden Morris, Wolfgang Winkelmayr	Funding Total: \$231,000
2023/4 – 2024/3	Stanford Cardiovascular Health Innovations Impact of chronic opioid exposure on vasopressor response in patients undergoing cardiovascular surgery	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-PI <u>Co-PI:</u> Detlef Obal <u>Co-investigator:</u> Amelia Claire Watkins	Funding Total: \$28,000
2023/4 – 2024/3	Stanford Cardiovascular Health Innovations Obituaries as a Potential Strategy to Obtain Death Data	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-PI <u>Co-PI:</u> Isabella Chu <u>Co-investigator:</u> Michael Fischbein	Funding Total: \$50,000
2022/9 – 2026/8	Canadian Institutes of Health Research (CIHR) Sex, gender and intersecting social factors within interprofessional cardiac operating room teams: A new, multi-methods approach to optimizing	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> PI <u>Co-PI:</u> Cole Etherington <u>Co-investigators:</u>	Funding Total: \$487,304

	practice, provider well-being, and patient outcomes		Peter Austin, Sylvain Boet, Ian Graham, Douglas Lee, Paula Rochon, Marc Ruel <u>Collaborators:</u> Rakesh Arora, Maggie Mills, Melissa Goulet, Jean Bilodeau, Bernard Jasmin, Erika MacPhee, Virginia Roth	
2022/8 – 2025/7	Heart and Stroke Foundation of Canada (HSFC) Psychological Profile and Intervention Needs of Patients with Spontaneous Coronary Artery Dissection: Phase 1b of Intervention Development	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator <u>Principal Investigator:</u> H. Tulloch <u>Co-investigators:</u> K Bouchard, T. Coutinho, S. Liu, S. Mulvagh, J. Reed, J. Saw, D. So, L. Sun , G. Wells	Funding Total: \$288,033
2022/3 – 2024/2	Canadian Institutes of Health Research (CIHR) Systematic implementation and impact evaluation of data-driven cardiac surgery triaging tools to optimize operational efficiency and enhance patient outcomes during the COVID-19 pandemic and beyond	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> PI <u>Co-investigators:</u> Ian Graham, Michelle Graham, Marc Ruel, Sean van Diepen <u>Knowledge Users:</u> Roni Atoui, Stephen Fremes, Paul Fedak, Andre Lamy, Jayan Nagendran, Dave Nagpal, Colleen Norris, Maral Ouzounian, Subodh Verma <u>Collaborators:</u> Cathy Cattarazza, Charles Cutrara, Stacy O’Blenes, Igo Ribeiro, Shelly Vallaire	Funding Total: \$500,000
2022/3 – 2024/2	Canadian Institutes of Health Research (CIHR) The indirect impact of COVID-19 on cardiac function and associated outcomes in patients awaiting cardiac surgery: An opportunity to inform data-driven surgical wait list management	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-PI <u>Co-Principal Investigators:</u> Wilton van Klei, Louise Sun , Justyna Bartoszko <u>Co-investigators:</u> Azad Mashari, Sarah Miles, Jacobo Moreno, Maral Ouzounian, Miki Peer, FayeZ	Funding Total: \$411,126

			Quereshy, Vivek Rao, Wendy Tsang	
2022/4 – 2029/3	Canadian Institutes of Health Research (CIHR) The Canadian CABG or PCI in Patients with Ischemic Cardiomyopathy (STICH 3.0) Trial	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator <u>Co-Principal Investigators:</u> S. Fremes, M. Gaudino, M. Jolicoeur, J.L. Rouleau <u>Co-investigators:</u> R. Arora, S. Bedard, M. Farkouh, M. Graham, J. Healey, J. Howlett, A. Kiss, D. Ko, D. Lee, G. Marquis-Gravel, R. Masterson Creber, M. McGillon, M. Ruel, L. Sun , R. Swartz, P. Voisine	Funding Total: \$2,786,128
2022/4 – 2025/3	Canadian Institutes of Health Research (CIHR) Psychological Profile and Intervention Needs of Patients with Spontaneous Coronary Artery Dissection: Phase 1b of Intervention Development	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator <u>Principal Investigator:</u> H. Tulloch <u>Co-investigators:</u> K Bouchard, T. Coutinho, S. Liu, S. Mulvagh, J. Reed, J. Saw, D. So, L. Sun , G. Wells	Funding Total: \$577,574
2022/4 – 2024/3	Ontario Ministry of Health Sex, gender and intersecting social factors within interprofessional cardiac operating room teams: A new, mixed-methods approach to optimizing practice, provider well-being, and patient outcomes	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> PI <u>Co-investigators:</u> Cole Etherington, Sylvain Boet, Ian Graham <u>Collaborators:</u> Marc Ruel, Jean Bilodeau, Ed Jordison, Melissa Goulet, Erika MacPhee	Funding Total: \$72,000
2020/9 – 2024/8	Heart and Stroke Foundation of Canada (HSFC) National New Investigator Award	<u>Type:</u> Salary award	<u>Principal Investigator:</u> Louise Sun	Funding Total: \$260,000 (declined due to COVID-19)
2019/4 - 2023/3	Canadian Institutes of Health Research (CIHR) <u>Title:</u>	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> PI <u>Co-investigators:</u> Douglas Lee, George Wells, Heather Tulloch, Lisa Duffett,	Funding Total: \$260,101

	Development and Application of a Patient-Defined Outcome in Patients with Ischemic Cardiomyopathy		Marc Ruel, Peter Austin, Rob Beanlands <u>Collaborator:</u> Graham Woodward, Jean Bilodeau	
--	---	--	--	--

Current Internal Funding:

Date(s)	Source	Type	Investigator	Amount
2022/4 – 2024/3	Faculty of Medicine Path to Patenting and Pre-Commercialization Grant <u>Title:</u> Data-driven cardiac surgery triaging tools to optimize operational efficiency and enhance patient outcomes	<u>Type:</u> Operating	<u>My Role:</u> PI <u>Collaborators:</u> Marc Ruel, Carmel Coleman, Cathy Cattarazza, Shelley Vallaire, Colleen Norris	\$60,000
2021/9 – 2022/8	University of Ottawa Heart Institute ORACLE Innovations Fund <u>Title:</u> Prototype refinement and prospective testing of an artificial intelligence algorithm for real-time prediction of critical hypotensive events in the operating room and intensive care unit	<u>Type:</u> Operating	<u>My Role:</u> PI <u>Co-investigator:</u> Robert Chen <u>Collaborators:</u> Eric Zhang, Anne Guertin-Lester, Stephanie Liddle	\$50,000
2021/9 – 2022/8	University of Ottawa Heart Institute ORACLE Innovations Fund <u>Title:</u> Atrial Fibrillation in Nunavut: Incidence and Risk Factors	<u>Type:</u> Operating	<u>My Role:</u> Co-Investigator <u>PI:</u> David Birnie <u>Co-investigators:</u> Louise Sun, George Wells, Jodi Edwards	\$50,000
2021/9 – 2022/8	University of Ottawa Faculty of Medicine Translational Research Grant <u>Title:</u> Predicting right heart failure after cardiac surgery using proteomics and machine learning	<u>Type:</u> Operating	<u>My Role:</u> PI <u>Co-PIs:</u> Louise Sun, Mathieu Lavallee-Adam	\$50,000
2021/7 – 2022/6	uOttawa Department of Anesthesia and Pain Medicine Operating Grant	<u>Type:</u> Operating	<u>My Role:</u> PI	\$25,390

	<u>Title:</u> Prototype refinement and prospective testing of an artificial intelligence algorithm for real-time prediction of critical hypotensive events in the operating room and intensive care unit		<u>Collaborators:</u> Robert Chen, Eric Zhang, Anne Guertin-Lester, Stephanie Liddle	
--	---	--	---	--

Past External Funding:

Date(s)	Source	Type	Investigator	Amount
2021/3 – 2022/2	Canadian Institutes of Health Research (CIHR) COVID-19 Variant Supplement - Improving Outcomes in Individuals with COVID-19 with Renin-Angiotensin System Inhibition: The COVID-RASi Trial	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator <u>Principal Investigators:</u> Peter Liu, David Birnie, Shaun Goodman <u>Co-investigators:</u> C. Chow, J. Ezekowitz, M. Farkouh, A. Forster, J. Healey, P. Lawler, D. Lee, E. McDonald, F. McAlister, G. Oudit, R. Patel, A. Sharma, D. So, L. Sun , K. Tu, G. Wells	Funding Total: \$50,000
2020/8 – 2021/7	Heart and Stroke Foundation of Canada (HSFC) <u>Title:</u> Psychological Profile and Needs of Patients with Spontaneous Coronary Artery Dissection (SCAD)	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator <u>Principal Investigator:</u> Heather Tulloch <u>Co-investigators:</u> Derek So, Jacqueline Saw, Jennifer Reed, Karen Bouchard, Sharon Mulvagh, Thais Coutinho	Funding Total: \$50,000
2020/7 – 2022/3	Canadian Frailty Network <u>Title:</u> Population-estimable frailty using "big data" to predict Covid-19 infection and illness severity	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator <u>Principal Investigators:</u> Douglas Lee, Harindra Wijeyesundera <u>Co-investigators:</u> Jacob Udell, Louise Sun , Jeff Kwong, Heather Ross, Moira Kapral, Paula Rochon, Peter	Funding Total: \$185,459

			Austin, Bo Wang, Husam Abdel-Qadir, Peter Liu	
2020/7 – 2021/6	Canadian Institutes of Health Research (CIHR) <u>Title:</u> Improving Outcomes in Individuals with COVID-19 with Renin-Angiotensin System Inhibition: The COVID-RASi Trial	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator <u>Principal Investigators:</u> Peter Liu, David Birnie, Shaun Goodman <u>Co-investigators:</u> C. Chow, J. Ezekowitz, M. Farkouh, A. Forster, J. Healey, P. Lawler, D. Lee, E. McDonald, F. McAlister, G. Oudit, R. Patel, A. Sharma, D. So, L. Sun , K. Tu, G. Wells	Funding Total: \$1,176,019
2020/7 – 2021/6	Canadian Institutes of Health Research (CIHR) <u>Title:</u> Improving Canadian Outcomes Research On the Novel SARS-CoV-2 using Analytics: the CORONA Consortium	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator <u>Principal Investigators:</u> Douglas Lee, Finlay McAlister <u>Co-investigators:</u> H. Abdel-Qadir, P. Austin, K. Baine, J. Bakai, J. Ezekowitz, S. Goodman, R. Greiner, A. Ha, C. Jackevicius, M. Kapral, P. Kaul, N. Khan, D. Ko, A. Krahn, J. Kwong, M. Lindsay, P. Liu, S. Nagpal, P. Rochon, I. Roifman, H. Ross, R. Sandu, M. Schull, L. Sun , J. Udell, B. Wang, R. Welsh, H. Wijeyesundera, A. Yu, S. Zieroth, C. de Mestral, S. van Diepen	Funding Total: \$409,179
2020/7 – 2021/6	Ontario Ministry of Health and Long-Term Care <u>Title:</u> Protecting healthcare workers during the COVID-19 pandemic: Improving safe usage of Personal Protective Equipment by video feedback. <u>Program:</u> Innovations Competition	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator <u>PI:</u> Sylvain Boet <u>Co-investigators:</u> Audette A, Brehaut JC, Burns JK, Cheung W, Etherington N, Grimshaw J, Hamilton S, McCartney C, Posner G, Roth V, Sun L , Taljaard M	Funding Total: \$100,000
2020/6 – 2021/5	Ontario Ministry of Health and Long-Term Care	<u>Type:</u> Grant	<u>My Role:</u>	Funding Total: \$25,000

	<p><u>Title:</u> Cardiac surgery triaging tools to reduce mortality while maximizing intensive care resources during the COVID-19 crisis</p> <p><u>Program:</u> Innovations Competition</p>	<p><u>Purpose:</u> Operating</p>	<p>PI</p> <p><u>Co-investigators:</u> Harindra Wijeyesundera, Douglas Lee, Marc Ruel, Sean van Diepen</p> <p><u>Collaborators:</u> Graham Woodward, Thierry Mesana</p>	
2020/5 – 2021/4	<p>Canadian Cardiovascular Society C3I</p> <p><u>Title:</u> Consequences of delays in cardiac procedures and surgeries due to the COVID-19 pandemic</p>	<p><u>Type:</u> Grant</p> <p><u>Purpose:</u> Operating</p>	<p><u>My Role:</u> Co-investigator</p> <p><u>Principal Investigator:</u> Derrick Tam, Harindra Wijeyesundera</p> <p><u>Co-investigators:</u> Stephen Fremes, Maral Ouzounian, Sandra Lauck, Ansar Hassan, Beate Sanders, David Naimark, Louise Sun</p>	Funding Total: \$1,5000
2020/4 – 2021/3	<p>Canadian Institutes of Health Research (CIHR)</p> <p><u>Title:</u> Psychological Profile and Needs of Patients with Spontaneous Coronary Artery Dissection (SCAD)</p>	<p><u>Type:</u> Grant</p> <p><u>Purpose:</u> Operating</p>	<p><u>My Role:</u> Co-investigator</p> <p><u>Principal Investigator:</u> Heather Tulloch</p> <p><u>Co-investigators:</u> Derek So, Jacqueline Saw, Jennifer Reed, Karen Bouchard, Sharon Mulvagh, Thais Coutinho</p>	Funding Total: \$100,000
2019/4 - 2023/3	<p>Canadian Institutes of Health Research (CIHR)</p> <p><u>Title:</u> Development and Application of a Patient-Defined Outcome in Patients with Ischemic Cardiomyopathy</p>	<p><u>Type:</u> Grant</p> <p><u>Purpose:</u> Operating</p>	<p><u>My Role:</u> PI</p> <p><u>Co-investigators:</u> Douglas Lee, George Wells, Heather Tulloch, Lisa Duffett, Marc Ruel, Peter Austin, Rob Beanlands</p> <p><u>Collaborator:</u> Graham Woodward, Jean Bilodeau</p>	Funding Total: \$260,101
2019/4 - 2021/3	<p>Ontario Ministry of Health and Long-Term Care</p> <p><u>Title:</u></p>	<p><u>Type:</u> Grant</p> <p><u>Purpose:</u> Operating</p>	<p><u>My Role:</u> PI</p> <p><u>Co-investigators:</u> George Wells, Thais Coutinho</p>	Funding Total: \$50,000

	Sex Differences in Outcomes After Multiple Arterial Coronary Revascularization <u>Program:</u> Innovations Competition		<u>Principal Investigators</u> Fraser Rubens, Louise Sun	
2018/9 - 2022/8	Canadian Institutes of Health Research (CIHR) <u>Title:</u> Healing Hearts Together	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator <u>Co-investigators:</u> Andrew Pipe, Giorgio Tasca, Jennifer Reed, Lisa Mielniczuk, Louise Sun , Sue Johnson <u>Principal Investigator:</u> Heather Tulloch, Paul Greenman	Funding Total: \$684,675
2018/4 - 2021/3	Ted Rogers Centre for Heart Research <u>Title:</u> Novel clinical, molecular, and -omics approaches to prediction, stratification and insights on disease mechanism in heart failure <u>Program:</u> Ted Rogers Innovation Strategic Grant	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator <u>Co-investigators:</u> Anna Goldenberg, Anna Woo, Anthony Gramolini, Catherine Kreatsoulas, Cedric Manlhiot, Daniel Levy, Dinesh Thavendiranathan, Faiez Zannad, Filio Billia, Geoff Anderson, Jennifer E. Ho., Louise Sun , Patrick Lawler, Paul Angaran, Peter Austin, Peter Liu, Slava Epelman, Wendy Tsang <u>Collaborator:</u> Hassan Jaferi <u>Principal Investigator:</u> Douglas Lee, Heather Ross	Funding Total: \$1,000,000
2018/4 - 2020/3	Ontario Ministry of Health and Long-Term Care <u>Title:</u> The Impact of Revascularization Options on Disability-Free Survival in Patients with Ischemic Cardiomyopathy <u>Program:</u> Innovations Competition	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> PI <u>Co-investigators:</u> Douglas Lee, Jack Tu, Marc Ruel, Peter Austin, Rob Beanlands <u>Collaborator:</u> Heather Sherrard, Jean Bilodeau	Funding Total: \$50,000

2018/4 - 2019/3	Canadian Institutes of Health Research (CIHR) <u>Title:</u> Bringing the patient voice into the operating room: engaging patients in surgical safety <u>Program:</u> SPOR Patient-Oriented Research Collaboration Grant	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator <u>Co-investigators:</u> Antoine Przbylak-Brouillard, Julie Kenna, Justin Presseau, Laurie Proulx, Louise Sun , Mark Walker, Sandy Lam, Sukhbir Singh, Teodor Grantcharov <u>Principal Investigator:</u> Nichole Etherington, Sylvain Boet	Funding Total: \$40,000
2017/7 - 2020/6	Canadian Institutes of Health Research (CIHR) <u>Title:</u> Does One Size Fit All? The Implications of Gender for OR Team Performance, Teamwork Interventions, and Equitable Patient Outcomes <u>Program:</u> Impact of Gender on Knowledge Translation Team Grant	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> Co-investigator <u>Co-investigators:</u> Arija Birze, Isabelle Raiche, Jack Tu, Jamie Brehaut, Jeremy Grimshaw, Justine Baron, Karine Lortie, Louise Sun , Melissa Duffy, Monica Taljaard, Nicole Etherington, Simon Kitto, Sukhbir Singh, Teodor Grantcharov, Tracey Adams <u>Co-knowledge User:</u> Paula Doering <u>Principal Investigator:</u> Sylvain Boet	Funding Total: \$448,848
2015/6 - 2015/8	Heart and Stroke Foundation of Canada (HSFC) Summer Student Award <u>Title:</u> Association of Intraoperative Hypotension and Cerebrovascular Accidents after Major Cardiac Surgery	<u>Type:</u> Scholarship	<u>My Role:</u> Principal Supervisor <u>Mentee:</u> Amy Chung	Funding Total: \$5,000

Past Internal Funding:

Date(s)	Source	Type	Investigator	Amount
2020/12 – 2021/11	The Ottawa Hospital Academic Medical Organization Innovations Grant	<u>Type:</u> Operating	<u>My Role:</u> Co-Investigator <u>Co-PIs:</u>	\$100,000

			Boet S, Castelluci L, Fergusson D, Katznelson R, MacDonald J, Taljaard M	
2020/11 – 2022/10	<p>Faculty of Medicine COVID-19 Response Grant</p> <p><u>Title:</u> Cardiac surgery triaging tools to reduce mortality while maximizing intensive care resources during the COVID-19 crisis</p>	<u>Type:</u> Operating	<p><u>My Role:</u> PI</p> <p><u>Co-investigators:</u> Sean van Diepen, Marc Ruel</p> <p><u>Collaborators:</u> Graham Woodward, Thierry Mesana</p>	\$50,000
2020/11 – 2022/10	<p>University of Ottawa Faculty of Medicine Translational Research Grant</p> <p><u>Title:</u> Chasing heart failure patients susceptible to a wasting syndrome, cardiac cachexia</p>	<u>Type:</u> Operating	<p><u>My Role:</u> PI</p> <p><u>Co-PIs:</u> Kyoung-Han Kim, Erin Mulvihill</p>	\$50,000
2020/9 – 2025/8	<p>University of Ottawa</p> <p>Tier 2 Clinical Research Chair in Big Data and Cardiovascular Outcomes</p>	<u>Type:</u> Salary award	<u>My Role:</u> PI	\$500,000
2020/7 – 2021/6	<p>University of Ottawa Department of Anesthesia and Pain Medicine Operating Grant</p> <p><u>Title:</u> A novel machine learning approach to predicting right ventricular failure after cardiac surgery using clinical and proteomics data</p>	<u>Type:</u> Operating	<p><u>My Role:</u> PI</p> <p><u>Co-investigators:</u> Mathieu Lavallée-Adam, Peter Liu, Liyong Zhang</p>	Funding Total: \$28,383
2020/5 – 2021/4	<p>The Ottawa Hospital Foundation COVID-19 Emergency Response Fund</p> <p><u>Title:</u> Resource Allocation Model to Balance the Hospital Capacity Needs during the COVID-19 Pandemic</p>	<p><u>Type:</u> Grant</p> <p><u>Purpose:</u> Operating</p>	<p><u>My Role:</u> Co-investigator</p> <p><u>Principal Investigator:</u> Kednapa Thavorn, Peter Liu, Alan Forster</p> <p><u>Co-investigators:</u> Rob Beanlands, Douglas Lee, Louise Sun, Jamie Brehaut, Sasha van Katwyk</p>	Funding Total: \$2,5000

2019/10 – 2021/9	University of Ottawa Heart Institute (Ottawa, ON) Ernest and Margaret Ford Research Fellowship <u>Title:</u> Transatlantic Biomarker and Big Data Research Collaborative	<u>Type:</u> Fellowship	<u>My Role:</u> Co-investigator Principal Investigator: Alice Blet	Funding Total: \$100,000
2019/6 – 2020/5	University of Ottawa Department of Anesthesia and Pain Medicine Operating Grant <u>Title:</u> IMpact of Physician sEx and sociodemogrAphics oN Cardiac surgery outcomEs – the IMPEDANCE study	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> PI <u>Co-investigators:</u> Nicole Etherington; Sylvain Boet; Vincent Chan <u>Collaborator:</u> Jean Bilodeau; Thierry Mesana	Funding Total: \$ 30,000
2019/6 – 2020/5	University of Ottawa Heart Institute (Ottawa, ON) ORACLE Innovations Fund <u>Title:</u> IMpact of Physician sEx and sociodemogrAphics oN Cardiac outcomEs – the IMPEDANCE study	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> PI	Funding Total: \$ 50,000
2019/6 – 2020/5	University of Ottawa Heart Institute (Ottawa, ON) ORACLE Innovations Grant <u>Title:</u> Sex Considerations in Long-Term Outcomes after Surgical Aortic Valve Replacement	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> PI <u>Co-investigators:</u> George Wells <u>Principal Investigator:</u> Fraser Rubens, Louise Sun	Funding Total: \$50,000
2018/6 - 2019/5	University of Ottawa <u>Title:</u> Impact of Revascularization on Disability-Free Survival <u>Program:</u> Faculty Innovation Competition	<u>Type:</u> Grant <u>Purpose:</u> Operating	<u>My Role:</u> PI <u>Co-investigators:</u> Douglas Lee, Jack Tu, Marc Ruel, Peter Austin, Rob Beanlands	Funding Total: \$30,000
2018/6 - 2018/8	University of Ottawa Summer Student Scholarship <u>Title:</u> Determinants of Left Ventricular Function Recovery After Revascularization: a Retrospective Cohort Study	<u>Type:</u> Scholarship	<u>My Role:</u> Principal Supervisor <u>Mentee:</u> Dylan DeMarco	Funding Total: \$5,000
2017/7 - 2019/6	University of Ottawa Heart Institute (Ottawa, ON) ORACLE Team Grant	<u>Type:</u> Grant	<u>My Role:</u> PI	Funding Total: \$100,000

	<p><u>Title:</u> PREhabilitation in Elective Frail and Elderly Cardiac Surgery PaTients (PREFECT): Assessing the Impact of a Personalized Prehabilitation Program Before Cardiac Surgery on Frailty and Clinical Outcomes</p>	<p><u>Purpose:</u> Operating</p>	<p><u>Co-investigators:</u> Andrew Pipe, Giovanni Ferrari, Jacqueline Fortier</p> <p><u>Co-knowledge User:</u> Kathryn Caldwell, Regan Kiefer</p> <p><u>Principal Investigator:</u> Jennifer Reed, Juan Grau, Louise Sun</p>	
2016/7 - 2017/6	<p>University of Ottawa Department of Anesthesiology Operating Grant</p> <p><u>Title:</u> A Personalized Approach to the Epidemiology of Heart Failure in Diabetic Patients Undergoing Cardiac Procedures</p>	<p><u>Type:</u> Grant</p> <p><u>Purpose:</u> Operating</p>	<p><u>My Role:</u> PI</p> <p><u>Co-investigators:</u> George Wells, Jack Tu, Peter Liu</p>	<p>Funding Total: \$49,837</p>
2016/1 - 2017/12	<p>University of Ottawa Heart Institute (Ottawa, ON) Heart Teams Research Competition</p> <p><u>Title:</u> Early Vascular Aging in Women at Risk for Cardiovascular Disease: The EVA Study</p>	<p><u>Type:</u> Grant</p> <p><u>Purpose:</u> Operating</p>	<p><u>My Role:</u> Co-investigator</p> <p><u>Co-investigators:</u> Heather Sherrard, Heather Tulloch, Jane Brownrigg, Lisa McDonnell, Lisa Mielniczuk, Michelle Turek, Peter Liu</p> <p><u>Principal Investigator:</u> Thais Coutinho</p>	<p>Funding Total: \$131,360</p>
2016/1 - 2017/12	<p>University of Ottawa Heart Institute (Ottawa, ON) Heart Teams Research Competition</p> <p><u>Title:</u> Influence of Gender on Cardiac Referral, Quality Indicators and Outcomes in Heart Failure Care in Ontario</p>	<p><u>Type:</u> Grant</p> <p><u>Purpose:</u> Operating</p>	<p><u>My Role:</u> PI</p> <p><u>Co-investigators:</u> Heather Sherrard, Heather Tulloch, Jack Tu, Jane Brownrigg, Lisa McDonnell, Michelle Turek, Thais Coutinho</p> <p><u>Principal Investigator:</u> Lisa Mielniczuk, Louise Sun</p>	<p>Funding Total: \$132,464</p>
2015/8 - 2016/8	<p>University of Ottawa Heart Institute (Ottawa, ON) Ottawa Region for Advanced Cardiovascular Research Excellence (ORACLE)</p> <p><u>Title:</u> Utilization of Novel Biomarkers in Prediction of Right Ventricular Failure and Acute Kidney Injury in Patients</p>	<p><u>Type:</u> Grant</p> <p><u>Purpose:</u> Operating</p>	<p><u>My Role:</u> PI</p> <p><u>Co-investigators:</u> Ayub Akbari, Lisa Mielniczuk, Peter Liu, Sharon Chih</p>	<p>Funding Total: \$49,555</p>

	Undergoing Major Cardiac Surgery - A Pilot Study			
--	--	--	--	--

VII. INTERNATIONAL COLLABORATION ACTIVITIES

- 2021 – 2022 Principal Investigator, Canada-UK Long-term heart failure risk prediction
- 2020 – Co-investigator, North America AI collaborative on Cardio-Oncology and Informatics Research
- 2020 Co-investigator, Canada-UK Sex differences in outcomes after coronary revascularization
- 2019 – 2020 Co-PI, Transatlantic biomarker collaboratory for heart failure/shock prognosis and therapy
- 2018 – 2019 Co-PI, Canada-France Population-based research on the impact of ethnicity on heart failure outcomes

VIII. PATENTS

1. Inventor: Louise Sun. Systems, Methods and Apparatus for Predicting Hemodynamic Events. University of Ottawa Heart Institute. PCT international patent # PCT/CA2022/051085. File date: July 12, 2022.
2. Inventor: Louise Sun. Systems, Methods and Apparatus for Predicting Hemodynamic Events. University of Ottawa Heart Institute. US provisional patent # 63/232,337. File date: August 12, 2021.
3. Inventor: Louise Sun. Health Care Resources Management. University of Ottawa Heart Institute and Institute for Clinical Evaluative Sciences. PCT international patent # PCT/CA2021/051033. File date: July 23, 2021.
4. Inventor: Louise Sun. Health Care Resources Management. University of Ottawa Heart Institute. US provisional patent # 63/055,620. File date: July 23, 2020.

IX. EDITORIAL SERVICE

Editorial Positions

- 2022 – Editorial Board Member, *Canadian Journal of Anesthesia*
- 2022 – Guest Editor, *Journal of Cardiovascular Development and Disease*
- 2021 – Cardiology Section Editor, *Intelligence-Based Medicine* (Journal)
- 2021 – Guest Editor, *Intelligence-Based Medicine, Cardiology themed issue* (Journal)
- 2021 Associate Editor, *Intelligence-Based Cardiology: Artificial Intelligence and Human Cognition in Cardiovascular Medicine and Cardiac Surgery* (Book)

Ad Hoc Reviewer

- 2023 – JACC: Advance
- 2023 – JACC: Heart Failure
- 2021 – Lancet Regional Health – Europe
- 2021 – American Heart Journal
- 2021 – British Journal of Anesthesia
- 2021 – Canadian Journal of Cardiology Open
- 2020 – JAMA Cardiology
- 2020 – BMC Surgery
- 2020 – Intelligence-Based Medicine
- 2019 – Lancet

2019 – Canadian Journal of Cardiology
 2019 – BMJ Open
 2019 – Anesthesiology
 2018 – JAMA
 2018 – JAMA Network Open
 2018 – International Journal of Cardiology
 2018 – CMAJ
 2018 – JAHA
 2018 – F1000 Research
 2017 – Current Medical Research and Opinion
 2017 – Canadian Journal of Anesthesia
 2017 – Journal of Cardiac Failure
 2016 – European Journal of Anesthesiology
 2015 – Annals of Internal Medicine
 2015 – Circulation

X. SERVICE AS GRANT REVIEWER

2022 – Scientific Reviewer, Clinical Trials Training Platform, Canadian Institutes of Health Research (CIHR)
 2022 – Grant Budget Review Committee, Heart and Stroke Foundation of Canada
 2021 – 2023 Scientific Reviewer, SCA Starter, Mid-Career and Diversity & Inclusion Grants, Society of Cardiovascular Anesthesiologists, USA
 2021 Scientific Reviewer, College of Medicine Research Awards, University of Saskatchewan, Canada
 2021 Reviewer, Non-clinical time allocation, Department of Anesthesiology and Pain Medicine, uOttawa
 2020 – 2021 Academic Reviewer, **Multi-Institutional Collaborative Clinical/Translational Research (MICoR)** Grant, Society of Cardiovascular Anesthesiologists, USA
 2020 External Reviewer, Physician Services Incorporated Grant Review Committee, Canada, Ontario
 2018 – 2019 Scientific Reviewer, Heart and Stroke Foundation Scientific Grant Review Committee, Canada
 2019 External Reviewer, Dutch Organization for Health Research and Development, The Netherlands
 2017 – 2018 External Reviewer, Physician Services Incorporated Grant Review Committee, Canada, Ontario

XI. UNIVERSITY ADMINISTRATIVE SERVICE

Committee

2023 – Member, *Professoriate Rolling Search Committee*, Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine
 2022 – Member, *Governance Committee*, Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine
 2022 – Member, *Executive Committee*, Cardiovascular Health Service Line, Stanford Healthcare
 2021 – Member, *Data and Safety Monitoring Board*, “RCT of cytisine compared to combination nicotine replacement therapy to reduce cigarette consumption in relapsed smokers”. Canada, Ontario
 2017 – Committee Member, *Anesthesia Research Committee*, University of Ottawa, Canada, Ontario
 2017 – 2022 Member of Organizing Committee, Gary Johnson Research Day, University of Ottawa
 2015 – Committee Member, *Heart Failure Research Cluster*, University of Ottawa Heart Institute
 2016 – 2018 Committee Member, *Research Ethics Board*, The Ottawa Hospital, Canada, Ontario
 2015 – 2018 Committee Member, *Women’s Heart Health Team*, University of Ottawa Heart Institute

- 2015 – 2017 Committee Member, *Transplant and Pumps Research Committee*, University of Ottawa Heart Institute
 2012 – 2013 Resident Member, *Anesthesia Research Committee*, University of Ottawa, Canada, Ontario

Leadership roles

- 2019 – 2020 Co-Chair, *Data Governance Committee*, University of Ottawa Heart Institute, Canada, Ontario
 2015 – 2017 Co-Chair, *Personalized INNovative perioperAtive Care and Long-Term outcomes rEsearch (PINNACLE) Research Cluster*, University of Ottawa Heart Institute, Canada, Ontario

XII. SERVICE TO PROFESSIONAL ORGANIZATIONS

Membership

- 2020 – Cardiology Oncology Informatics and Innovation Group
 2016 – American Heart Association
 2016 – Canadian Perioperative Anesthesia Clinical Trials Network
 2016 – Canadian Heart and Stroke Foundation’s Women Heart and Brain Health Network
 2015 – Canadian Cardiovascular Society
 2013 – Society of Cardiovascular Anesthesiologists
 2012 – Canadian Anesthesiologist Society

Committee

- 2022 AHA Expert Consultant, for revisions to the U.S. Social Security Administration (SSA) on Medical Criteria to Identify Cardiovascular-Related Disabilities.
 2022 Writing Group Member, AHA Scientific Statement on Myocardial Ischemia After Cardiac Surgery
 2022 – 2023 Member of Planning Committee, Canadian Women’s Heart Health Summit 2023
 2021 – Member of Advisory Board, American Board of Artificial Intelligence in Medicine (ABAIM)
 2020 – 2021 Cardiology and Oncology Innovation Summit
 2019 – Committee Member, *Research Committee*, Society of Cardiovascular Anesthesiologists
 2019 – 2020 Member of Research Subcommittee, Canadian Women’s Heart Health Summit 2020
 2018 – Committee Member, *Membership and Communications Committee*, American Heart Association

Leadership roles

- 2023 – Vice Chair, Research Committee, Society of Cardiovascular Anesthesiologists
 2022 – Cardiovascular Surgery and Anesthesia Council Leadership Committee, American Heart Association
 2021 – Regional Representative, Alliance of Centers of Artificial Intelligence in Medicine (ACAIM), international
 2020 – Scientific Officer, Canadian Cardiovascular Critical Care (CANCARE) Society
 2019 – 2020 Consultant, CorHealth Ontario Cardiac Surgery Report Risk Adjustment Task Force
 2019 – Methodologist, Cerebral Protection Working Group, Society of Cardiovascular Anesthesiologists
 2018 Advisor, Health Quality Ontario, Heart Failure Care in the Community Quality Standard Review
 2018 – 2020 Executive Board Member, Canadian Cardiovascular Critical Care (CANCARE) Society
 2016 – 2019 Co-Chair, Working Group on Sex-Based Disparities in Heart Failure, Champlain Local Health Integration Network (LHIN), Canada

XIII. PRESENTATIONS

Canadian Regional

1. Grand Rounds. (June 2022). “Blood pressure management in cardiac surgery”. University of Ottawa Heart Institute, Ottawa, ON, Canada.

2. Grand Rounds. (May 2021). "Patient-defined outcomes in cardiovascular surgery". University of Ottawa Heart Institute, Ottawa, ON, Canada.
3. Lecture. (May 2021). "Precision Cardiovascular Medicine through Big Data, Informatics and Biotechnology". University of Ottawa Heart Institute Research Conference, Canada.
4. Lecture. (May 2021). "The association of patient sex with postoperative outcomes after inpatient general surgeries: a population-based cohort study." Institute for Clinical Evaluative Sciences Cardiovascular Research Rounds, Toronto, ON, Canada. Other presenters: Jones, P, Wijeyesundera, D, Vogt, K.
5. Grand Rounds. (Oct 2020). "Data-driven tools to improve patient safety and system capacity during time of crisis". University of Ottawa Heart Institute, Ottawa, ON, Canada.
6. Lecture. (Sept 2020). "CardiOttawa: a simple decision aid to conserve critical care capacity during the COVID-19 crisis". CorHealth Ontario Stakeholder Forum, Ontario, Canada (virtual meeting).
7. Keynote. (Apr 2020). "Long-term outcomes in cardiovascular diseases and interventions: Sex matters." The Ottawa Hospital Cardiology Nurses Education Day, Ottawa, Canada (virtual meeting).
8. Lecture. (Sept 2019). "The importance of frailty in cardiac surgery risk adjustment". CorHealth Ontario Quality Working Group, Toronto, ON, Canada.
9. Workshops and/or Round Tables. (Aug 2019). "The Role of Big Data in Outcomes and Health Services Research". Ottawa, Cardiovascular Research Methods Centre Retreat, Montebello, QC, Canada.
10. Lecture. (May 2019). "Heart Failure: Sex Differences in Access and Outcomes". 5th Annual Regional Heart Symposium, Canada.
11. Lecture. (Mar 2019). "Health Care Disparities in Heart Failure Patients in the Community and After Cardiac Surgery". University of Ottawa Heart Institute Research Conference, Canada.
12. Lecture. (Oct 2018). "Evaluating the Hub & Spoke Model of Heart Failure Care in the Champlain Region". Champlain Local Health Integration Network, Ottawa, Canada.
13. Keynote. (Sept 2018). "The Life of a Clinician Scientist: What I Do and How I Got Here". Leacross Foundation Networking and Mentorship Forum, Ottawa, ON, Canada.
14. Lecture. (Sept 2018). "The Importance of Phenotype in the Perioperative Management of Patients with Heart Failure". Ontario Anesthesiologists Meeting, Toronto, Canada.
15. Keynote. (Aug 2018). "A Population and Precision-Based Research Program in Heart Failure and Perioperative Outcomes". Ottawa Heart Institute Research Corporation Board Education Session, Ottawa, Canada.
16. Lecture. (Aug 2018). "Sex Differences in heart failure outcomes in ambulatory and cardiac surgical patients in Ontario". School of Epidemiology and Public Health Seminar Series, Ottawa, Canada.
17. Lecture. (Oct 2017). "Sex Differences in Heart Failure Incidence and Outcomes in Ontario". Institute for Clinical Evaluative Sciences Cardiovascular Research-In-Progress Rounds, Toronto, Canada.
18. Lecture. (Sept 2017). "From Population to Precision: Innovations in Heart Failure Research". University of Ottawa Heart Institute Monday Research Conference, Canada.
19. Lecture. (Jun 2016). "Influence of Gender on Heart Failure Care in Ontario". Institute for Clinical Evaluative Sciences Cardiovascular Research Rounds, Toronto, Canada.
20. Lecture. (May 2015). "Trends in Preoperative Pulmonary Function Testing Before Non-Cardiothoracic Surgery in a Population-Based Cohort". Institute for Clinical Evaluative Sciences Annual Research Forum, Toronto, Canada.

Canadian National

21. Lecture. (Oct 2022). "Health Services Research in Cardiovascular Medicine." Canadian Cardiovascular Congress. Ottawa, ON, Canada.
22. Lecture. (Oct 2022). "Top 4 Papers in Cardiovascular Critical Care." Canadian Cardiovascular Critical Care Symposium. Ottawa, ON, Canada.

23. Co-Chair. Symposium. (Oct 2022). "Sedating patients with cardiac disease: Tips and tricks for the general cardiologists from cardiac anesthesiologists and intensivists". Canadian Cardiovascular Congress, Ottawa, ON, Canada.
24. Lecture. (Oct 2022). "Conundrums in cardiogenic shock: point and counterpoint". Canadian Cardiovascular Congress, Ottawa, ON, Canada.
25. Panelist. (Oct 2022). "Atrial fibrillation and cardiac surgery: New investigators tackling an old problem". Canadian Cardiovascular Congress, Ottawa, ON, Canada.
26. Lecture. (Oct 2021). "Blood pressure management during cardiac surgery". Canadian Society of Clinical Perfusion Annual Meeting. (virtual meeting).
27. Workshops. (Oct 2020). "CANCARE Cup". Canadian Cardiovascular Congress, Edmonton, AB, Canada (virtual meeting).
28. Workshops and/or Round Tables. (Oct 2019). "Coronary Revascularization: Quality Indicators and Outcomes in Canada and Beyond". Canadian Cardiovascular Congress, Montreal, QC, Canada.
29. Workshops and/or Round Tables. (Oct 2019). "The Top 5 ICU Trials of 2019 for the Clinical Cardiologist". Canadian Cardiovascular Congress, Montreal, QC, Canada.
30. Keynote Address. (Oct 2018). "Intraoperative Hypotension: a Masked Assassin". Canadian Critical Care Experts Forum, Montreal, QC, Canada.

U.S. National and International

31. Lecture. (March 2024). Clinical applications of artificial intelligence: clinical workflow. World Congress of Anaesthesiologists. Singapore.
32. Lecture. (September 2023). The intersection between age, sex, frailty and outcomes after cardiovascular interventions. Modifying Cardiovascular Ageing: from Old Cells to Elderly Patients. Halle, Germany.
33. Keynote Lecture. (June 2023). How to harness data to its fullest potential in research and patient care. AIMed Global. San Diego, CA, USA.
34. Lecture. (Jan 2023). Big Data in Cardiovascular Medicine. Frontiers in Cardiovascular Science. Stanford, CA, USA.
35. Lecture. (Dec 2022). How to Build an AI-Ready Data Infrastructure. AI + Health. Stanford, CA, USA.
36. Lecture. (Oct 2022). Hypotension, AKI and MINS. Anesthesia Patient Safety Foundation Consensus Conference on Perioperative Hemodynamic Instability, Hypotension and Perioperative Outcomes. Philadelphia, PA, USA.
37. Keynote Lecture. (Jun 2022). "Big data analysis: Answering the next big research questions in coronary surgery." Society of Thoracic Surgeons (STS) Coronary Conference, Ottawa, ON, Canada.
38. Lecture. (May 2022). "Deployment of AI in clinical workflow." AIMed Global, San Francisco, CA, USA.
39. Lecture. (May 2022). "What do healthcare organizations need to do in order to harness the full potential of their data?" AIMed Global, San Francisco, CA, USA.
40. Lecture. (May 2022). "How to Publish Your Research - Insight into Abstracts, Papers, Mentors, and Reviewers". Society of Cardiovascular Anesthesiologists Annual Meeting, Palm Springs, CA, USA.
41. Moderator. (May 2022). Poster presentations. Society of Cardiovascular Anesthesiologists Annual Meeting, Palm Springs, CA, USA.
42. International Keynote. (Nov 2021). Harnessing data to its full potential to enable the clinical application of AI in Canada. AI & Machine Learning in Healthcare, Melbourne, **Australia**.
43. Lecture. (Nov 2021). "Friend or Foe: the Right Ventricle in Cardiac Surgery". American Heart Association (AHA) Scientific Session, Boston, MA, USA.
44. Moderator. (Nov 2021). "Optimal Long-Term Techniques for Aortic Valve Pathology". AHA Scientific Session, Boston, MA, USA.
45. Moderator. (Jun 2021). "Data and Databases". AIMed Imaging, USA (virtual meeting).

46. Lecture. (Apr 2021). “Clinical Applications of Artificial Intelligence”. Johns Hopkins MedTech Network's AI in Healthcare Lecture Series, Baltimore, MD, USA.
47. Lecture. (Mar 2021). “AI in Surgical and Critical Care: Pathway to the New Century”. AIMed Surgery and ICU, USA (virtual meeting).
48. Keynote Lecture. (May 2020). “Long-term results of PCI vs CABG in patients with ischemic cardiomyopathy”. Medstar Hospital Center Interventional Cardiology Conference, Washington, DC, USA (virtual meeting).
<https://rutherfordmedicine.com/speakers/Louise-Y-Sun>
49. Workshops and/or Round Tables. (May 2020). “Top 3 AI Papers in Cardiology”. AIMed Cardiology, USA. (virtual meeting).
50. Lecture. (May 2020). “A critical look at big data for medical AI research.” AIMed Cardiology, Laguna Niguel, CA, USA (virtual meeting).
51. Lecture. (May 2020) “Big data in cardiovascular research: the joy, the challenges, and what we’ve learned along the way.” AIMed Cardiology, New Port Beach, CA, USA (virtual meeting).
https://www.youtube.com/watch?v=YnVvIaw3Z7s&list=PLNfg2uekDVxHQjNPZ_nXuMoIQrYSIZt5k&index=2&t=0s
52. Lecture. (Aug 2019) “Population ageing – future perspectives from the University of Ottawa Heart Institute.” International Cardiology Meeting, Curitiba, Brazil. Other presenter: Dr. Rob Beanlands.

Visiting Professorships

53. Visiting Professorship. (Apr 2020) “Sex differences in cardiac surgery outcomes.” University of Manitoba Cardiovascular Sciences Program, Winnipeg, Canada.

XIV. TRAINEES

Mentoring Activities

2023	Mentor, Women in Cardiothoracic Anesthesia Scientific Writing Pods Mentee: Michele Sumler
2023	Research Mentor, Bola Faloye (Associate Professor of Anesthesiology, Emory University School of Medicine, USA)
2022	Speaker, Canadian Cardiovascular Society Trainee Session on Health Services Research
2022 –	Mentor, The Canadian Cardiovascular Future Leaders Program, Canadian Cardiovascular Society
2021 – 2022	Research Mentor, Dr. Habib Jabagi (Staff Cardiac Surgeon, Valley Health System, USA)
2021	Mentor, Society of Cardiovascular Anesthesiologists
2021	Mentor, Johns Hopkins MedTech Network, Johns Hopkins University School of Engineering
2016	Writer, Competence by Design Learning Modules, Course Development, University of Ottawa
2015 – 2019	Mentor, Resident Mentorship Program, University of Ottawa
2012	Speaker, Anesthesia Resident Career Planning and Mentorship Event, University of Ottawa

Trainee Supervision

Completed

Principal Supervisor	19 Post-doctorate 3 Doctorate 6 Doctorate Equivalent 4 Bachelor's
Co-Supervisor	3 Post-doctorate 1 Doctorate Equivalent 1 Bachelor's

In Progress

Principal Supervisor	6 Post-doctorate 1 Doctorate 4 Doctorate Equivalent 1 Bachelor's
Co-Supervisor	1 Post-doctorate

Supervision detail:

Jessica Dawson (CA1), Association of race, ethnicity and socioeconomic class with outcomes after heart transplantation. Principal Supervisor, February 2023 –

Teresa Nguyen (CA2), *Variation of mechanical circulatory support use across the United States*. Principal Supervisor, February 2023 –

Jacquelyn Nakamura (CA1), *Lumbar drain complication rates in patients undergoing open and endovascular thoracic aortic aneurysm repair*. Principal Supervisor, February 2023 –

Andrew Tran (MS1), *Impact of surgical delays and incrementing case acuity on patient outcomes within a universal health care system*, Principal Supervisor, December 2021 –

Kenza Rahmouni El Idrissi (PGY-2 Cardiac Surgery), *Pulmonary pulsatility index as a predictor of recurrence-free survival after mitral valve repair*, Co-Supervisor, November 2021 –

Dominique Vervoort (PhD student), *Coronary revascularization outcomes*, Principal Supervisor, November 2021 –

Alexandra Fottinger (Clinical Fellow – Critical Care), *Derivation and validation of clinical models to predict hospital length of stay after cardiac surgery*, Principal Supervisor, July 2021 –

Karanpreet Bath (MS3), *Qualitative study on cardiac operating teamwork*, Principal Supervisor, June 2021 –

Salwa Zghebi (Postdoctoral Research Fellow), *Derivation and External Validation of a Clinical Model to Predict Heart Failure Onset in Patients with Incident Diabetes*, Principal Supervisor, April 2021 –

Alex Nantsios (PGY-3 Cardiac Surgery), *Achieving a consensus-based definition for perioperative right ventricular failure*, Principal Supervisor, May 2020 – March 2022.

Tuba Buyuktepe (Undergraduate), *A review of telehealth and telemedicine strategies in patients with heart failure*, Principal Supervisor, May 2021 – August 2021.

Akaash Ratra (Undergraduate), *Design and implementation of digital health applications in cardiology and cardiac surgery*, Principal Supervisor, May 2021 – April 2022.

Felicity Lee (Clinical Fellow – Cardiology) (Post-doctorate), *Cardiology Impact of specialist referral on outcomes in women and men with newly diagnosed heart failure*, Principal Supervisor, September 2020 – February 2022.

John O'Connor (Clinical Fellow - Cardiac Anesthesia) (Post-doctorate), *Anesthesia Impact of Anesthesiologist Handover on Patient Outcomes after Major Cardiac Surgery*, Principal Supervisor, June 2020 – February 2022.

Yannick MacMillan (MS2) (Doctorate Equivalent), Faculty of Medicine *IGFBP7 as a Biomarker of Perioperative Right Ventricular Injury*, Principal Supervisor, March 2020 – May 2022.

Nour Elmostekawy (Undergraduate student), Principal Supervisor, September 2019 – November 2021.

Alice Blet (Post-doctorate), Post-doctoral Research Fellow *Trans-Atlantic Biomarker Collaboratory for Acute Heart Failure/Shock Prognosis and Therapy*, Co-Supervisor, September 2019 – August 2020.

Stewart Spence (PGY-1 Internal Medicine) (Post-doctorate), Internal Medicine Residency *Impact of frailty on long-term outcomes after major cardiac surgery*, Principal Supervisor, July 2019 – June 2020

Vanja Ristic (PGY-2 Anesthesia) (Post-doctorate), Anesthesia Residency *Association of intraoperative hypotension and in-hospital mortality after major cardiac surgery*, Principal Supervisor, April 2019 – June 2020

Mimi Deng (MS2) (Doctorate Equivalent), Faculty of Medicine *Impact of physician and patient sex on outcomes after cardiac surgery – a systematic review*, Principal Supervisor, October 2018 – March 2020

Katina Zheng (MS2) (Doctorate Equivalent), Faculty of Medicine *Impact of physician and patient sex on outcomes after cardiac surgery – a systematic review*, Principal Supervisor, October 2018 – March 2020

Sarah Leir (PGY-1 Anesthesia Resident) (Post-doctorate), Anesthesia Residency *Sex and Gender Biases in Medical Education*, Principal Supervisor, September 2018 – June 2021

Yukihiro Hayatsu (Clinical Fellow - Cardiac Surgery) (Post-doctorate), Cardiac Surgery *Long-Term Outcomes After Single Versus Multiple Arterial Coronary Grafting in Patients with Reduced Renal Function*, Principal Supervisor, October 2018 – August 2019

Antoine Kimmoun (Research Fellow) (Post-doctorate), Postdoctoral Research Fellow *Impact of Ethnicity on Long-Term Outcomes After Hospitalization for Acute Heart Failure*, Principal Supervisor, September 2018 – May 2019

Kogi Takagi (Postdoctoral fellow) (Post-doctorate), Postdoctoral Research Fellowship *Ethnic differences in outcomes after hospital admission for acute heart failure in Ontario*, Principal Supervisor, September 2018 – May 2019

Amy Johnston (Doctorate), Prospective PhD Student *Sex Differences in Long-Term Survival After Hospital Discharge From Major Cardiac Surgery: A Population-Based Cohort Study*, Principal Supervisor, August 2018 – May 2019

Habib Jagabi (PGY-4 Cardiac Surgery) (Post-doctorate), Cardiac Surgery *An Etiological Study of Perioperative Strokes*, Principal Supervisor, July 2018 – June 2021

Riina Kandolin (Cardiology Fellow) (Post-doctorate), Cardiology *Novel Predictors of Perioperative Right Ventricular Failure*, Principal Supervisor, February 2018 – December 2019

Nadia Clarizia (PGY-4 Cardiac Surgery) (Post-doctorate), Cardiac Surgery *Determinants of Left Ventricular Function Recovery After Revascularization: a Retrospective Cohort Study*, Principal Supervisor, February 2018 – Dec 2019

George Wharmby (PGY-1 Anesthesia) (Post-doctorate), Anesthesia Residency *LV Functional Recovery Post Cardiac Surgery*, Principal Supervisor, November 2017 – June 2021

Sonya Hui (MD/PhD student) (Doctorate), Postdoctoral Research *Association of genetic risk score with outcomes after revascularization in patients with multi-vessel coronary artery disease*, Co-Supervisor, August 2017 – 2020

Janet Ngu (PGY-4 Cardiac Surgery Resident) (Post-doctorate), Cardiac Surgery *1. Association of Intraoperative Hypotension and Acute Kidney Injury Following Major Cardiac Surgery. 2. Temporal Pattern and Outcomes of Left Ventricular Recovery after Revascularization - a Systematic Review and Meta-analysis 3. Goal-Directed Therapy for Prevention of Cardiac Surgery Associated Acute Kidney Injury (PREVENT-AKI): A Randomized Controlled Trial*, Principal Supervisor, January 2017 – June 2019

David Harnett (Clinical Fellow - Cardiology) (Post-doctorate), Cardiology *Left atrial appendage velocity as a predictor of stroke after cardiac surgery*, Co-Supervisor, July 2018 – April 2019

Andrew Moeller (Cardiology Fellow) (Post-doctorate), Cardiology *Assessing Clinical Prevalence and Significance of Hyperkalemia in Patients with Heart Failure with Reduced Ejection Fraction*, Co-Supervisor, April 2018 – April 2019

Dylan DeMarco (MS2) (Doctorate Equivalent), Faculty of Medicine *Determinants of Left Ventricular Function Recovery After Revascularization: a Retrospective Cohort Study*, Principal Supervisor, February 2018 – August 2018

Peter Vho (PGY-1 Cardiac Surgery) (Post-doctorate), Cardiac Surgery *Temporal Pattern and Outcomes of Left Ventricular Recovery Post Revascularization - a Systematic Review and Meta-Analysis*, Principal Supervisor, January 2018 – May 2018

Jasjit Singh (MS4) (Doctorate Equivalent), Faculty of Medicine *Influence of gender on cardiac referral – a scoping review*, Principal Supervisor, December 2017 – May 2019

Jason Zelt (MD/PhD student) (Doctorate), Faculty of Medicine *Biomarkers in the Prediction of Right Ventricular Failure Post Cardiac Surgery*, Principal Supervisor, November 2017 – December 2018

Tasuku Terada (Postdoctoral Fellow) (Post-doctorate), Postdoctoral Research Fellow *Prehabilitation in patients undergoing elective cardiac surgery*, Co-Supervisor, September 2017 – July 2018

Emma Lindale (Bachelor's), Undergraduate Student *Polygenic risk score in the prediction and prognostication of patients with coronary artery disease*, Co-Supervisor, June 2017 – February 2018

Ming Guo (PGY-2 Cardiac Surgery Resident) (Post-doctorate), Cardiac Surgery *Temporal Pattern and Outcomes of Left Ventricular Recovery after Revascularization - a Systematic Review and Meta-analysis*, Principal Supervisor, May 2017 – December 2017

Jillian Rodger (Bachelor's), Undergraduate Student *1. Sex-Based Differences in Access to Care in Heart Failure Patients - A Systematic Review 2. Temporal Pattern and Outcomes of Left Ventricular Recovery Post Revascularization*, Principal Supervisor, December 2016 – August 2019

Shona Philip (PGY-1 Internal Medicine Resident) (Post-doctorate), Internal Medicine Residency *Sex-Based Differences in Access to Care in Heart Failure Patients - A Systematic Review*, Principal Supervisor, December 2016 – June 2017

Elizabeth Chan (PGY-1 Internal Medicine Resident) (Post-doctorate), Internal Medicine *Sex-Based Differences in Access to Care in Heart Failure Patients - A Systematic Review*, Principal Supervisor, June 2016 – May 2019

Donna Kimmaliardjuk (PGY-2 Cardiac Surgery Resident) (Post-doctorate), Cardiac Surgery Residency *Pulmonary Artery Pulsatility Index as a Novel Predictor of Perioperative Right Ventricular Failure*, Principal Supervisor, January 2016 – December 2016

Asadollah Mir Ghassemi (PGY-4 Anesthesia Resident) (Post-doctorate), Anesthesiology *Pulmonary Artery Pulsatility Index as a Novel Predictor of Perioperative Right Ventricular Failure*, Principal Supervisor, May 2015 – April 2017

Amy Chung (MS1) (Doctorate Equivalent), Faculty of Medicine *Association of Intraoperative Hypotension and Cerebrovascular Accidents Post Cardiac Surgery*, Principal Supervisor, February 2015 – June 2016

Courses Taught:

Undergraduate Courses

Honours BSc Thesis Project (HTHSCI 3H06) McMaster University, Ontario. September, 2021 – April, 2022
Number of Students: 1

EBM Evidence-Based Medicine Series University of Ottawa, Ontario. October, 2021 – October, 2021
Number of Students: 8

Epidemiology University of Ottawa, Ontario. September, 2021 – September, 2021
Number of Students: 8

Biostatistics University of Ottawa, Ontario. January, 2021 – January, 2021
Number of Students: 8

EBM Evidence-Based Medicine Series University of Ottawa, Ontario. October, 2020 – October, 2020
Number of Students: 8

EBM Evidence-Based Medicine Series University of Ottawa, Ontario. October, 2019 – January, 2020

Number of Students: 8

EBM Evidence-Based Medicine Series University of Ottawa, Ontario. April, 2019 - April, 2019

Number of Students: 8

Graduate Courses

Guest Faculty, American Board of Artificial Intelligence in Medicine (ABAIM). “ABAIM Review Course”. ABAIM, U.S.A. May 2021.

Number of Students: 28

Guest Lecture, School of Epidemiology and Public Health. “Sex Difference in Heart Failure Outcomes in Ambulatory and Cardiac Surgical Patients in Ontario”, U of Ottawa, Ontario. October, 2018 – October, 2018.

Number of Students: 30

Anesthesia Residency, Anesthesia Management of Adults with Congenital Heart Disease, University of Ottawa, Ontario. January, 2017

Number of Students: 25

Anesthesia Residency, Resident Problem-Based Learning Modules University of Ottawa, Ontario. February, 2011 - February, 2013

Number of Students: 12