Stanford

Louise Y Sun

Professor of Anesthesiology, Perioperative and Pain Medicine (Cardiac)

CLINICAL OFFICE (PRIMARY)

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ACADEMIC CONTACT INFORMATION

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Bio

BIO

Dr. Louise Sun is a Professor of Anesthesiology, Perioperative and Pain Medicine and Director of Cardiovascular Research. She is an Adjunct Scientist at the Institute for Clinical Evaluative Sciences (ICES) in Toronto. Prior to this, she was an Associate Professor of Anesthesiology and Epidemiology, Director of Big Data and Health Bioinformatics Research at the University of Ottawa Heart Institute, and a Clinical Research Chair in Big Data and Cardiovascular Outcomes at the University of Ottawa.

Dr. Sun received her medical degree from McMaster University. She completed her anesthesiology residency at the University of Ottawa and her Masters of Science in Epidemiology at the Harvard School of Public Health, followed by a clinical and research fellowship in cardiac anesthesia at the University of Toronto. She then joined the Division of Cardiac Anesthesiology at the University of Ottawa Heart Institute and was cross appointed as an ICES faculty member.

Dr. Sun’s areas of clinical focus are hemodynamic monitoring and heart failure. Her methodologic areas of focus are the conduct of population-based cohort studies using large healthcare databases; predictive analytics; sex and gender epidemiology; patient engagement; innovative methods for data processing and warehousing; and software and applications development. Her research leverages big data and digital technology to bridge key gaps in the delivery of care and outcomes for patients with heart failure and/or undergoing cardiovascular interventions, zooming in on sex/gender and personalized care. She holds several patents and collaborates with health authorities and policy makers to evaluate and report on models of cardiac healthcare delivery.

Dr. Sun is active in the scientific community. She sits on a number of US, Canadian and international editorial boards and scientific and grant review committees, and collaborates nationally and internationally on a variety of population health and data science initiatives. Her patient-centered research program aims to improve access to care and outcomes, focusing on personalized risk stratification and long-term, patient-defined outcomes. She has authored over 150 peer-reviewed papers and published in leading clinical journals including JAMA, JAMA Cardiology, JAMA Internal Medicine,

Circulation, JACC, Diabetes Care, and Anesthesiology. Her research program has been well funded by the Canadian Institutes of Health Research (CIHR), the Heart and Stroke Foundation of Canada, and the Ontario Ministry of Health.

CLINICAL FOCUS

- Anesthesia

ACADEMIC APPOINTMENTS

- Professor-Univ Med Line, Anesthesiology, Perioperative and Pain Medicine
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Chief, Division of Cardiothoracic Anesthesiology, Stanford University School of Medicine, (2022- present)

PROFESSIONAL EDUCATION

- Board Certification: Advanced Perioperative Transesophageal Echocardiography, National Board of Echocardiography (2016)
- Fellowship: University of Toronto (2014) Canada
- Board Certification: Anesthesia, Royal College of Physicians and Surgeons of Canada (2013)
- Masters of Science, Harvard University , Clinical Epidemiology (2013)
- Residency: University of Ottawa (2013) Canada
- Medical Education: McMaster University Michael G. DeGroote School of Medicine (2008) Canada

PATENTS

- Louise Sun. "United States Patent 63/055,620 Health Care Resources Management", University of Ottawa Heart Institute, Jul 23, 2022
- Louise Sun. "United States Patent PCT/CA2021/051033 Health Care Resources Management", University of Ottawa Heart Institute, Institute for Clinical Evaluative Sciences, Jul 23, 2022
- Louise Sun. "United States Patent PCT/CA2022/051085 Systems, Methods and Apparatus for Predicting Hemodynamic Events", University of Ottawa Heart Institute, Jul 12, 2022
- Louise Sun. "United States Patent 63/232,337 Systems, Methods and Apparatus for Predicting Hemodynamic Events", University of Ottawa Heart Institute, Aug 12, 2021

Research & Scholarship

RESEARCH INTERESTS

- Data Sciences

Publications

PUBLICATIONS

- **Hospital costs and procedural learning curves of robotic mitral valve surgery: a systematic review and meta-analysis.** *Journal of robotic surgery*
  Nguyen, D., Le, M. H., Taha, A. M., Rutledge-Jukes, H., Thuan, P. Q., Tran, T., Le, P. T., Le, T. T., Dinh, N. H., Huynh, P. K., Sun, L. Y., Kpodonu, J.
  2026; 20 (1)
- **Unmasking bias in artificial intelligence: sex and racial representation in critical care medicine through text-to-image generators.** *BJA open*
  Choi, A. E., Chung, M. E., Sun, L. Y.
  2026; 19: 100562

- **Medium to Long-Term Patient-Oriented Effectiveness of Surgical or Percutaneous Revascularization in Diabetes and Severe Coronary Artery Disease.** *CJC open*
  Vervoort, D., Dai, Y., Eddeen, A. B., Tuna, M., Austin, P. C., Ouzounian, M., Fremes, S., Lee, D. S., Wijeysundera, H. C., Sun, L. Y.
  2026; 8 (7): 868-881

- **Mortality After Cardiovascular Surgery and Procedures During the COVID-19 Pandemic in Ontario, Canada: A Retrospective Cohort Study.** *CJC open*
  Dai, Y., Chu, A., Paterson, J. M., Wang, X., Sud, M., Fremes, S., Lee, J. G., Sun, L. Y.
  2026; 8 (7): 817-827

- **Secondary Prevention After Coronary Artery Bypass Graft Surgery: 2026 Update: A Scientific Statement From the American Heart Association** *CIRCULATION*
  Ruel, M., Sandner, S., Ponnambalam, M., Brown, C., Gaudino, M., Sun, L., Verma, S., Poirier, P., Amer Heart Assoc Council Cardiovasc Surg & Anesthesia, Council Cardiovasc & Stroke Nursing, Council Clin Cardiol, Council Lifestyle & Cardiometabolic Hlth
  2026; 153 (25): e1408-e1426

- **Withdrawal of Guideline-Directed Medical Therapy in Heart Failure With Improved Ejection Fraction: A Systematic Review and Meta-Analysis With Trial Sequential Analysis.** *JACC. Heart failure*
  Taha, A. M., Nguyen, D., Abdeljawad, M. M., Hasan, M. T., Tran, T., Huynh, P. K., Dang, C., Ngo, D., Kpodonu, J., Sun, L. Y.
  2026: 103172

- **Double Trouble: Clinical and Psychological Characteristics in SCAD With and Without Fibromuscular Dysplasia.** *JACC. Advances*
  Maukel, L. M., Boivin-Proulx, L. A., Saw, J., Madan, M., Liu, S., Coutinho, T., Mulvagh, S., Pacheco, C., Bouchard, K., Reed, J., Sun, L., Paquin, A., Lappa, et al
  2026; 5 (6 Pt 1): 102814

- **From Challenges to Solutions: Patient Insights Inform Psychological Intervention Design After Spontaneous Coronary Artery Dissection.** *JACC. Advances*
  Maukel, L. M., Coutinho, T., Mulvagh, S., Madan, M., Pacheco, C., Bouchard, K., So, D., Reed, J., Liu, S., Sun, L., Paquin, A., Lappa, N., Saw, et al
  2026: 102792

- **Impact of Donor Left Ventricular Geometric Remodeling and Hypertrophy on Heart Acceptance and Recipient Survival.** *JACC. Heart failure*
  O'Donnell, C., Kim, J. S., Tarun, A., Celestin, B. E., Karius, A. K., Bagherzadeh, S. P., Intrieri, T. A., Tapaskar, N., Zhang, S., Weng, Y., Zaroff, J., Sun, L. Y., Wayda, et al
  2026: 103150

- **Defining Perioperative Right Heart Failure in Cardiac Surgery: A Multiparametric Approach to Diagnosis and Management.** *Anesthesiology*
  Jabagi, H., O'Donnell, C., Haddad, F., Denault, A., Sun, L. Y.
  2026

- **EXPLAINABLE MACHINE LEARNING PREDICTION OF CARDIOVASCULAR MORTALITY IN US ADULTS WITH DIABETES: INSIGHTS FROM NHANES 2007-2018**
  Ahn, W., Gao, S., Biswas, A., Kaur, B., Nguyen, D., Tivakaran, S., Srinivasan, M., Panyanouvong, N., Uy, L., Kamdar, N., Yasui, O., Kim, G. S., Palaniappan, et al
  ELSEVIER SCIENCE INC.2026: A321

- **COMPARISON OF MULTIDIMENSIONAL FRAILTY INSTRUMENTS FOR ESTIMATION OF LONG-TERM PATIENT-DEFINED OUTCOMES AMONG AMBULATORY OR HOSPITALIZED PATIENTS IN THE POPULATION**
  Lee, J., Tran, A., Fang, J., Mamas, M. A., Sun, L.
  ELSEVIER SCIENCE INC.2026: A291-A292

- **SOCIAL TIES AND MENTAL HEALTH AFTER SPONTANEOUS CORONARY ARTERY DISSECTION: INSIGHTS FROM A MULTI-CENTER STUDY**
  Maukel, L., Bouchard, K., Coutinho, T., Mulvagh, S., Madan, M., Pacheco, C., Saw, J., Reed, J., Liu, S., Sun, L., Paquin, A., Tulloch, H.
  OXFORD UNIV PRESS INC.2026: S293

- **Machine Learning-Based Analysis of Behavioral and Social Determinants of Cardiovascular Mortality in Adults With Diabetes**
  Ahn, W., Gao, S., Kaur, B., Biswas, A., Nguyen, D., Tivakaran, S., Srinivasan, M., Panyanouvong, N., Uy, L., Rajeshuni, N., Huang, R., Kamdar, N., Yasui, et al
  LIPPINCOTT WILLIAMS & WILKINS.2026: ATH842

- **Patient-centered outcomes according to cancer status in cardiac surgery patients: a population-based cohort study.** *British journal of cancer*
  Jabagi, H., Lee, J. G., Yasui, O. W., Mamas, M. A., Sun, L. Y.
  2026
- **Perception of sex and race diversity in critical care medicine by generative AI: biases, measurement and implications.** *Critical care (London, England)*
  Chung, M. E., Choi, A. E., Sun, L. Y.
  2026; 30 (1)
- **Understanding delayed care after ambulatory heart failure diagnosis.** *The Canadian journal of cardiology*
  Lee, J. G., Sun, L. Y.
  2026
- **Does Language Matter? The Impact of English Proficiency on Healthcare Outcomes After Cardiac Surgery: A Scoping Review.** *Anesthesia and analgesia*
  Rios-Monterrosa, J., Castro, S., Aguiar, C., Tanvir, A., Woodward, A., Sun, L. Y., Milam, A. J.
  2026
- **Sex Differences in Psychological Distress of Patients With Spontaneous Coronary Artery Dissection (SCAD): The MINDSET Study.** *Circulation. Population health and outcomes*
  Maukel, L. M., Coutinho, T., L Mulvagh, S., Madan, M., Pacheco, C., Bouchard, K., Y F So, D., Saw, J., Reed, J., Liu, S., Y Sun, L., Paquin, A., Robert, et al
  2026: e012626
- **Patient-defined Outcomes in Cardiovascular Surgery and Interventions.** *Anesthesiology*
  Castro, S., Sun, L. Y.
  2025
- **Antithymocyte Globulin and Acute Respiratory Distress Syndrome in Orthotopic Heart Transplantation.** *Journal of cardiothoracic and vascular anesthesia*
  Cadenhead, H., Sun, L., Madhok, J.
  2025
- **Time-varying comparative effectiveness of surgical or percutaneous revascularization on patient-centred outcomes.** *CMAJ : Canadian Medical Association journal = journal de l'Association medicale canadienne*
  Fielding-Singh, V., O'Donnell, C., Boyd, J. H., Tuna, M., Mamas, M. A., Ruel, M., Sun, L. Y.
  2025; 197 (42): E1436-E1448
- **The Impact of English Language Proficiency on Outcomes After Cardiovascular Surgery**
  Rios, J., Castro, S., Yasui, O., Powell, J., Milam, A., Sun, L.
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Double Trouble - Exploring Mental Health Issues in Patients with Spontaneous Coronary Artery Dissection (SCAD) and Fibromuscular Dysplasia (FMD)**
  Maukel, L., Coutinho, T., Mulvagh, S., Madan, M., Pacheco, C., Bouchard, K., So, D., Saw, J., Wells, G., Reed, J., Liu, S., Sun, L., Robert, et al
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Prevailing Language Discordance is associated with Worse Post-operative Outcomes in Adult Cardiac Surgical Patients**
  Cain, M., McMullen, H., Pines, K., Shields, L., Xie, J., Sun, L., Martin, B.
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Exploring the Feasibility of the Creyos Cognitive Assessment Tool Among Patients With Heart Failure.** *Cureus*
  Varickanickal, J., Chu, S., Swartz, R. H., Murray, T., Styra, R., Paleczny, S. G., Owen, A. M., Austin, P. C., Simard, A., Sun, L. Y., Billia, F., Abdul-Samad, K., Ross, et al
  2025; 17 (11): e97158
- **Sex disparities in quality of care and outcomes of patients with cancer presenting with ST elevation myocardial infarction; a nationwide cohort study**
  Dafaalla, M., Parwani, P. V., Wijeysundera, H. D., Sun, L. E., Zaman, S. H., Rashid, M. M., Cheng, R. R., Mallen, C. T., Mamas, M. S.
  OXFORD UNIV PRESS.2025

- **Sex differences in access to physician care following a new diagnosis of heart failure in the ambulatory setting.** *The Canadian journal of cardiology*
  Lee, J. G., Lee, F., Pugliese, M., Mielniczuk, L. M., Sun, L. Y.
  2025
- **The temporal trends of ST-elevation myocardial infarction mortality according to infarct size and location: insights from the UK National MINAP registry from 2005 to 2019.** *European heart journal open*
  Weight, N., Bagur, R., Chew, N., Bangalore, S., Parwani, P., Sun, L. Y., Wang, Y. C., Rashid, M., Mamas, M. A.
  2025; 5 (5): oeaf111
- **Optimizing Sedation Strategies for Catheter Ablation Procedures: Balancing Safety, Efficacy, and Practice Variations.** *Circulation*
  Sun, L. Y.
  2025; 152 (3): 160-162
- **Healing Hearts Together - an emotionally focused intervention for couples after a cardiac event: a randomized controlled trial protocol.** *Frontiers in psychology*
  Tulloch, H. E., Greenman, P. S., Reed, J., Susinski, S., Kasos, E., Tasca, G. A., Mielniczuk, L., Wells, G., Sun, L. Y., Johnson, S. M.
  2025; 16: 1564666
- **Preoperative Dialysis Dose and Postoperative Outcomes in Patients Receiving Maintenance Hemodialysis.** *Kidney360*
  Fielding-Singh, V., Vanneman, M. W., Morris, A. M., Winkelmayer, W. C., Sun, L. Y., Roshanov, P. S., Montez-Rath, M., Chertow, G. M., Lin, E.
  2025
- **Blood pressure management in cardiac surgery: how low can you go?** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
  Ristovic, V., Sun, L. Y.
  2025
- **SEX DIFFERENCES IN THE PSYCHOLOGICAL PROFILES OF PATIENTS WITH SPONTANEOUS CORONARY ARTERY DISSECTION (SCAD): PRELIMINARY DATA FROM THE MINDSET STUDY**
  Maukel, L., Coutinho, T., Mulvagh, S., Pacheco, C., Bouchard, K., So, D., Madan, M., Saw, J., Reed, J., Liu, S., Sun, L., Robert, H., Lappa, et al
  OXFORD UNIV PRESS INC.2025: S608
- **Metrics to assess the quality of anesthesia, perioperative care, and acute pain management in Canada: a scoping review.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
  Ke, J. X., Sparrow, K., Smith, M. A., Yoo, K. M., Yee, M. S., Sun, L. Y., Beattie, W. S., Lim, E., Görges, M.
  2025
- **A standardized set of metrics to assess the quality of anesthesia, perioperative care, and acute pain management in Canada: a multidisciplinary modified Delphi study.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
  Ke, J. X., Smith, M. A., Sparrow, K., West, N., Yee, M. S., Yoo, K. M., Sun, L. Y., Beattie, W. S., Görges, M.
  2025
- **Unmasking Bias in Artificial Intelligence (AI): Sex and Racial Representation in Critical Care Medicine through Text-to-Image Generators**
  Choi, A., Chung, M., Sun, L.
  LIPPINCOTT WILLIAMS & WILKINS.2025: 1222-1224
- **Predicting mortality risk using the PREVENT equation across diverse racial groups.** *The American journal of managed care*
  Kobo, O., Rutter, M. K., Misra, S., Michos, E. D., Myint, P. K., Roguin, A., Sun, L. Y., Mamas, M. A.
  2025; 31 (5): e113-e119
- **Lowest Measured Temperature and Adverse Outcomes after Cardiac Surgery: Analysis of the Society of Thoracic Surgeons Adult Cardiac Surgery DatabaseTM.** *Annals of surgery*
  Bartels, K., Grocott, H. P., Bollen, B. A., Feng, X., Eden, S. K., Shotwell, M. S., Schmoker, J. D., Shah, A. S., Mackensen, G. B., Kunst, G., Sun, L. Y., Schwann, T. A., Lombard, et al
  2025
- **Hypotension and Perioperative Strokes in Cardiac Surgery: How Big Data Can Help Answer Big Questions.** *Seminars in thoracic and cardiovascular surgery*
  Rios-Monterrosa, J., Sun, L. Y.
  2025

- **Early vs Delayed Bypass Surgery in Patients With Acute Coronary Syndrome Receiving Ticagrelor: The RAPID CABG Randomized Open-Label Noninferiority Trial.** *JAMA surgery*
  So, D. Y., Wells, G. A., Lordkipanidzé, M., Chong, A. Y., Ruel, M., Perrault, L. P., Le May, M. R., Sun, L., Tran, D., Labinaz, M., Glover, C., Russo, J., Welman, et al
  2025

- **Revascularization Recommendations for Patients with Multivessel Coronary Artery Disease: Reestablished at Last.** *The Canadian journal of cardiology*
  Ruel, M., Farkouh, M. E., Graham, M., Kelly, R. F., Ouzounian, M., Poirier, P., Sun, L. Y., Williams, A. E., Bakaeen, F. G.
  2025

- **Addressing gender disparities in academic anesthesiology through structural change.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
  Flexman, A. M., Sun, L. Y., Lorello, G. R.
  2024

- **Association of Kidney Function With Inpatient Mortality and Morbidity After Cardiac Surgery.** *Annals of thoracic surgery short reports*
  Fielding-Singh, V., Vanneman, M. W., Hong, T., Sun, L. Y., Morris, A. M., Chertow, G. M., Lin, E.
  2024; 2 (4): 877-883

- **The Association of Echocardiographically Measured Donor Left Ventricular Mass and 1-Year Outcomes After Heart Transplantation.** *JACC. Heart failure*
  O'Donnell, C., Tapaskar, N., Sanchez, P. A., Wayda, B., Santana, E. J., Pulgrossi, R. C., Steffner, K., Zhang, S., Weng, Y., Sun, L. Y., Malinoski, D., Zaroff, J., Haddad, et al
  2024

- **STRIVE pilot trial: a protocol for a multicentre pragmatic internal pilot randomised controlled trial of Structured TRaining to Improve fitness in a Virtual Environment (STRIVE) before surgery.** *BMJ open*
  McIsaac, D. I., Tandon, P., Kidd, G., Branje, K., Hladkowicz, E., Hallet, J., Wijeysundera, D. N., Lee, S., McNeely, M. L., Taljaard, M., Gillis, C., STRIVE Trial Investigators, Canadian Perioperative Anesthesia Clinical Trials Group (PACT), Auer, et al
  2024; 14 (11): e093710

- **Long-term Time-specific Sex Differences in Survival and Major Adverse Cardiovascular Events Following Surgical versus Percutaneous Revascularization**
  O'Donnell, C., Fielding-Singh, V., Rios-Monterrosa, J., Sun, L.
  LIPPINCOTT WILLIAMS & WILKINS.2024: 101-102

- **Through the Center of Cardiovascular Research: My Journey with Big Data and Bioengineering: The 2024 J. Earl Wynands Lecture (Society of Cardiovascular Anesthesiologists).** *Anesthesia and analgesia*
  Sun, L. Y.
  2024

- **Perioperative handovers-lost in transition.** *Canadian journal of anaesthesia = Journal canadien d'anesthesie*
  Bodmer, N. J., Jones, P. M., Sun, L. Y.
  2024

- **Like Mother, Like Daughter: A Case of Peripartum Spontaneous Coronary Artery Dissection.** *Journal of cardiothoracic and vascular anesthesia*
  Yu, S., Dhawan, R., Kenny, E. S., Banayan, J. M., Bodmer, N. J., Sun, L. Y., Oakes, D.
  2024

- **Artificial Intelligence in Perioperative Care: Opportunities and Challenges.** *Anesthesiology*
  Han, L., Char, D. S., Aghaeepour, N.
  2024; 141 (2): 379-387

- **Spontaneous Coronary Artery Dissection Across the Health Care Pathway: A National, Multicenter, Patient-Informed Investigation.** *Journal of the American Heart Association*
  Bouchard, K., Lalande, K., Coutinho, T., Mulvagh, S., Pacheco, C., Liu, S., Saw, J., So, D., Reed, J. L., Chiarelli, A., Stragapede, E., Robert, H., Lappa, et al
  2023: e032141

- **Association between Surgeon/anesthesiologist Sex Discordance and One-year Mortality Among Adults Undergoing Noncardiac Surgery: A Population-based Retrospective Cohort Study.** *Annals of surgery*
  Etherington, C., Boet, S., Chen, I., Duffy, M., Mamas, M. A., Eddeen, A. B., Bateman, B. T., Sun, L. Y.
  2023
- **Outcomes and Discriminatory Accuracy of the CHA2DS2VASc Score in Atrial Fibrillation and Cancer.** *JACC. Advances*
  Ullah, W., DiMeglio, M., Frisch, D. R., Bagur, R., Sun, L. Y., Fischman, D. L., Matetic, A., Ky, B., Mamas, M. A.
  2023; 2 (8): 100609
- **Socioeconomic disparities in the management and outcomes of acute myocardial infarction.** *Heart (British Cardiac Society)*
  Weight, N., Moledina, S., Volgman, A. S., Bagur, R., Wijeysundera, H. C., Sun, L. Y., Chadi Alraies, M., Rashid, M., Kontopantelis, E., Mamas, M. A.
  2023
- **Team principles for successful interdisciplinary research teams.** *American heart journal plus : cardiology research and practice*
  Brown, S. A., Sparapani, R., Osinski, K., Zhang, J., Blessing, J., Cheng, F., Hamid, A., MohamadiPour, M. B., Lal, J. C., Kothari, A. N., Caraballo, P., Noseworthy, P., Johnson, et al
  2023; 32: 100306
- **Team principles for successful interdisciplinary research teams** *AMERICAN HEART JOURNAL PLUS: CARDIOLOGY RESEARCH AND PRACTICE*
  Brown, S., Sparapani, R., Osinski, K., Zhang, J., Blessing, J., Cheng, F., Hamid, A., Mohamadipour, M., Lal, J., Kothari, A. N., Caraballo, P., Noseworthy, P., Johnson, et al
  2023; 32
- **STICH3C: Rationale and Study Protocol.** *Circulation. Cardiovascular interventions*
  Fremes, S. E., Marquis-Gravel, G., Gaudino, M. F., Jolicoeur, E. M., Bédard, S., Masterson Creber, R., Ruel, M., Vervoort, D., Wijeysundera, H. C., Farkouh, M. E., Rouleau, J. L.
  2023; 16 (8): e012527
- **Outcomes Among Patients Hospitalized With Non-COVID-19 Conditions Before and During the COVID-19 Pandemic in Alberta and Ontario, Canada.** *JAMA network open*
  McAlister, F. A., Chu, A., Qiu, F., Dong, Y., van Diepen, S., Youngson, E., Yu, A. Y., de Mestral, C., Ross, H. J., Austin, P. C., Lee, D. S., Kadri, S. S., Wijeysundera, et al
  2023; 6 (7): e2323035
- **Impact of the COVID-19 Pandemic on Diabetes-Related Cardiovascular Mortality in the United States.** *Journal of the American Heart Association*
  Bashar, H., Kobo, O., Khunti, K., Sun, L. Y., Rutter, M. K., Chew, N. W., Curzen, N., Mamas, M. A.
  2023: e028896
- **Trends In ST-elevation Myocardial Infarction Hospitalisation Among Young Adults: A Binational Analysis.** *European heart journal. Quality of care & clinical outcomes*
  Moledina, S. M., Matetic, A., Weight, N., Rashid, M., Sun, L., Fischman, D. L., Van Spall, H. G., Mamas, M. A.
  2023
- **Ethnic Disparities in ST-Segment Elevation Myocardial Infarction Outcomes and Processes of Care in Patients With and Without Standard Modifiable Cardiovascular Risk Factors: A Nationwide Cohort Study.** *Angiology*
  Weight, N., Moledina, S., Sun, L., Kragholm, K., Freeman, P., Diaz-Arocutipa, C., Dafaalla, M., Gulati, M., Mamas, M. A.
  2023: 33197231182555
- **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*
  Sun, L. Y., Chu, A., Tam, D. Y., Wang, X., Fang, J., Austin, P. C., Feindel, C. M., Alexopoulos, V., Tusevljak, N., Rocha, R., Ouzounian, M., Woodward, G., Lee, et al
  2023; 28: 100285
- **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*
  Sun, L. Y., Chu, A., Tam, D. Y., Wang, X., Fang, J., Austin, P. C., Feindel, C. M., Alexopoulos, V., Tusevljak, N., Rocha, R., Ouzounian, M., Woodward, G., Lee, et al
  2023; 28

- **Outcomes of ST elevation myocardial infarction in patients with cancer; a nationwide study.** *European heart journal. Quality of care & clinical outcomes*
  Dafaalla, M., Abdel-Qadir, H., Gale, C. P., Sun, L., López-Fernández, T., Miller, R. J., Wojakowski, W., Nolan, J., Rashid, M., Mamas, M. A.
  2023
- **Population Study of Sex-Based Outcomes After Surgical Aortic Valve Replacement.** *CJC open*
  Rubens, F. D., Clarke, A. E., Lee, D. S., Wells, G. A., Sun, L. Y.
  2023; 5 (3): 220-229
- **CKD-Associated Cardiovascular Mortality in the United States: Temporal Trends From 1999 to 2020.** *Kidney medicine*
  Kobo, O., Abramov, D., Davies, S., Ahmed, S. B., Sun, L. Y., Mieres, J. H., Parwani, P., Siudak, Z., Van Spall, H. G., Mamas, M. A.
  2023; 5 (3): 100597
- **Derivation and validation of pragmatic clinical models to predict hospital length of stay after cardiac surgery in Ontario, Canada: a population-based cohort study.** *CMAJ open*
  Fottinger, A., Eddeen, A. B., Lee, D. S., Woodward, G., Sun, L. Y.
  2023; 11 (1): E180-E190
- **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".** *Frontiers in cardiovascular medicine*
  Sun, L. Y., Echefu, G., Doshi, K., Roberts, M. L., Hamid, A., Cheng, R. K., Olson, J., Brown, S. A.
  2023; 10: 982028
- **Comorbidity clusters and in-hospital outcomes in patients admitted with acute myocardial infarction in the USA: A national population-based study.** *PloS one*
  Zghebi, S. S., Rutter, M. K., Sun, L. Y., Ullah, W., Rashid, M., Ashcroft, D. M., Steinke, D. T., Weng, S., Kontopantelis, E., Mamas, M. A.
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