

Previous Innovation Fund Winners

Year	Name	Project
2024-25	Almufleh	Building a point-of-care risk communication tool to improve perioperative risk estimation and mitigation for heart failure patients undergoing non-cardiac surgery
2024-25	Barber	Assessment of Screening Patterns for metabolic dysfunction associated steatotic liver disease (MASLD) in Patients with Diabetes Mellitus within the Canadian Primary Care Setting
2024-25	Brietzke	Psilocybin-Assisted Psychotherapy for Major Depressive Disorder in Women with a History of Childhood Maltreatment: A Pilot Trial
2024-25	Cupido	Bone-Enhanced Ultrasound (BEUS) for facet joint injections in patients with chronic back pain: A future for ultrasound based spinal procedures
2024-25	Hurlbut	Integrative Metabolomic and Pathological Characterization for Precision-based Rectal Cancer Management
2024-25	Law	Improving Strabismus Surgical Outcomes: The Role of High-Resolution Eye-Tracking in Predicting Future Surgical Needs
2024-25	Leitch	Continuous vital signs monitoring using a novel, non-invasive ambulatory monitor to detect and prevent perioperative cardiovascular complications during early recovery from non-cardiac surgery
2024-25	Mulder	Uncovering Innovative Inflammatory Bowel Disease Biomarkers within Neutrophil-Macrophage Interactions
2024-25	Soares	Microdosing psilocybin (non-hallucinogenic) for the

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		Management of Moderate-to-Severe Generalized Anxiety Disorder (GAD): Safety, Efficacy, and Potential Biomarker for Treatment Response
2024-25	Vanner	A novel pH-sensitive analgesic lacking the toxicity of conventional opioids and NSAIDs
2022-23	Bartels	Emergency Department care of equity-deserving patients: a cross-sectional, mixed-methods study of patient and provider perspectives
2022-23	Clinkard	The role of peripheral neuroinflammation and impact of knee sensory denervation on post-operative knee replacement outcomes in painful osteoarthritis
2022-23	Martou	The Breast Cancer Reconstruction Outcome Survey (ROSE): measuring the impact of breast reconstruction on health-related quality of life in breast cancer patients and improving breast cancer care
2022-23	Mathews	Implementation of a compassionate community innovation in Kingston: the Kingston Cares (KINCARES) study
2022-23	Nakamura	Hypoxia-primed pathogenic neutrophils as potential novel therapeutic targets in spondyloarthritis
2022-23	Purzner, J.	Identifying sources of glioblastoma recurrence in patients through cellular and molecular mapping of the tumour cavity
2022-23	Purzner, T.	The impact of a multidisciplinary brain tumor program on access and equity of care: a prospective trial
2022-23	Rullo	Why people still go blind from glaucoma in the year 2022:

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		targeting local mitochondrial metabolism in the retinal ganglion cell to treat diseases of the optic nerve
2022-23	Samdup	Co-designing a better patient experience when children with autism spectrum disorder attend outpatient testing clinics
2022-23	Sibley	Use of magnesium prophylaxis for the prevention of atrial fibrillation in critically ill patients: a pilot study
2021-22	Bougie	Prevalence of musculoskeletal pain among gynecologic surgeons and assessment of ergonomic risk factors in the operating room environment
2021-22	Cook	Linking repeated sub-concussive impacts to neuroimaging in military personnel
2021-22	Digby	Molecular triage of suspected lung cancer lesions through microRNA-based liquid biopsy
2021-22	Gong	A multicentric collaboration to evaluate quantitative assays for SARS-COV-2 and determine humoral and cellular immunity (CONQUER): immunosuppressant cohort
2021-22	Holden	Osteoporosis in post-menopausal females: an early response marker to identify fast bone losers and treatment response
2021-22	Khurshid	Creating an online tool to predict the risk of bronchopulmonary dysplasia and death by applying conventional and machine learning approaches on a national cohort of very preterm neonates
2021-22	Law	Envisioning the future together: improving system navigation of pediatric low vision resources in Ontario

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2021-22	Mulder	Lymphocyte subsets identify critical markers of disease activity in inflammatory bowel disease patients
2021-22	Muscedere	Ceragenin coated endotracheal tubes for the eradication of ventilator associated pneumonia – a prospective, longitudinal, cross-over, interrupted time, implementation study (CEASE VAP study)
2021-22	Nanji	Development of a risk prediction tool for mortality after non-hepatic surgery in patients with cirrhosis
2021-22	Ren	Rapid real-time resection margin analysis using mass spectrometry and machine learning with histopathology
2021-22	Sehgal	Are eating disorders in immune-mediated gastrointestinal diseases common? An Ontario Health administrative database study
2021-22	Serafini	Combining functional imaging and clinical physiology to enhance diagnosis and treatment of dyspneic patients in the initial stages of chronic obstructive pulmonary disease
2021-22	Sheth	Characterization of a novel therapeutic for the treatment of clostridioides difficile infection
2021-22	Yeates	Listening to our Elders: using concept mapping and digital storytelling to understand and integrate resilience and wellness into community and health-based system approaches for the prevention and treatment of diabetes in remote Indigenous communities
2020-21	Abuzeid	Implementation of a structural mitral valve clinic for the management of patients with

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		heart failure refractory to medical therapy
2020-21	Appireddy	Adoption and scaling up home video visits in Kingston Health Sciences Centre and evaluation of health economics, patient experience of care on home video visit: a mixed methods implementation study
2020-21	Archer	Synthesis and preclinical testing of novel small molecule therapies for COVID-19
2020-21	<a href="#">Brooks</a>	The Neighbours Saving Neighbours Feasibility Study: an intervention to increase survival from out-of-hospital cardiac arrest using a community volunteer responder model
2020-21	Campbell	Improving the effectiveness of diabetic retinopathy treatment programs
2020-21	James	COVID-19 Coagulopathy: understanding and treating a novel entity
2020-21	Maslove/Rauh	Age-related clonal hematopoiesis as a risk factor for COVID-19 morbidity and mortality in the GenOMICC study
2020-21	Siemens	Role of BCG-induced innate immune memory in the protection against coronavirus
2020-21	<a href="#">Silver</a>	<a href="#">Improving care after a hospitalization with acute kidney injury</a>
2020-21	Ten Hove	Coronavirus infection of the ocular mucosa to model infection and systemic immunity
2020-21	Vanner	The application of metabolomics to enhance detection of COVID-19 and predict disease severity: a proof-of-principal study
2019-20	Barber	
2019-20	Bechara	Fistulotomy as the primary cannulation technique for all

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		patients undergoing ERCP: a randomized controlled trial
2019-20	Levy	Using patient-specific electrophysiological mapping and objective outcome measures to optimize the delivery and efficacy of neuromodulation therapy
2019-20	Lougheed	Promoting Evidence-based Asthma Care: Use of Sentinel Surveillance for Quality Improvement (PEACSS-QI)
2019-20	Mckay	Intraoperative margin assessment during basal cell carcinoma excision using mass spectrometry in real-time
2019-20	Wijeratne	A multi-modal virtual care bundle to improve quality of care for chronic obstructive pulmonary disease (COPD) at Kingston Health Sciences Centre (KHSC)
2018-19	Bayoumi	Targeting child mental health and household poverty
2018-19	Brennan	Implementation and evaluation of an In Situ personalized CPR training program for critical care nurses
2018-19	Frank	An innovative use of point of care ultrasound in inpatient palliative care units
2018-19	Hookey	Is needle knife fistulotomy an effective first step strategy for all ERCPs?
2018-19	Johri	Canada's first Centre of Excellence for the Cardiovascular Screening and Care of the Athlete Program
2018-19	Khurshid	
2018-19	Mizubuti	Can dobutamine and goal-directed fluid therapy improve tissue oxygenation in deep inferior epigastric perforator (DIEP) flap breast reconstruction surgery? A randomized controlled trial

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2018-19	Neder	Improving neuromuscular fatigue with supplemental oxygen to enhance exercise tolerance in pulmonary fibrosis: a randomized, placebo-controlled trial
2018-19	Reed	Metabolomics: moving beyond symptoms to phenotype irritable bowel syndrome
2018-19	Renwick	Preparing microRNA profiling and analysis for use in cancer clinical trial research
2018-19	Soares	Applying digital phenotyping to treatment management and relapse prevention in depression
2017-18	Bell	Eye fixation as an objective competency assessment tool for point of care ultrasound
2017-18	Engel	Navigated iKnife: lumpectomy navigation with mass spectrometry tissue analysis
2017-18	Patel	The use of a novel smart phone application and the quality of bowel preparation for colonoscopy: a randomized controlled trial
2017-18	Samdup	Evaluation of the impact of exergaming on physical activity and cardiovascular fitness in children with autism spectrum disorder – Phase 1 (feasibility)
2017-18	Seitz	Medication association with QTc prolongation: prevalence and adverse outcomes associated with polypharmacy among older adults
2017-18	Siemens	Epigenetic modifications in circulating monocytes as predictors of response to BDGs in non-muscle-invasive bladder cancer
2017-18	White	Dialysis – less frequently in the elderly (D-LITE) pilot study
2017-18	Zevin	Holographically augmented tutor for assessment and training in open surgery

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2016-17	Boyd	Proteomics strategies to develop accurate neuroprognostic biomarkers for comatose survivors of cardiac arrest
2016-17	Cook	Brain network remodelling during recovery from sport-related brain injury
2016-17	Flemming	Cost-effectiveness of a Hepatitis C screening in an outpatient endoscopy unit
2016-17	Khalid-Khan	Saccadic eye movement as a biological marker for adolescents at risk of developing borderline personality disorder (BPD): Stage 1 comparison of BPD, attention-deficit hyperactivity disorder and healthy controls on a randomized anti-saccade inhibition task
2016-17	Patel	The use of a novel smart phone application and the quality of bowel preparation for colonoscopy: a randomized controlled trial
2016-17	Rauh	Path to personalized myeloid cancer diagnosis (Path2MyDx) through next-generation sequencing: a model for transferable practice change in Southeastern Ontario
2016-17	ten Hove	A novel model of care for vision rehabilitation: evaluating the effectiveness of the Southeastern Ontario Vision Rehabilitation Services Model
2015-16	Berman	Towards a metabolomics classification of prostate cancer using mass spectral imaging
2015-16	Brooks	The FOCUS-ER Study: focused vascular ultrasound to risk stratify patients with suspected ischemic chest pain in the emergency department

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2015-16	Flavin	Implementation of a clinical poverty intervention tool – Phase 1: process evaluation
2015-16	Gemmill	Implementation and evaluation of Health Links’ Coordinated Care Plans tailored for adults with intellectual and developmental disabilities
2015-16	Holden	Development of a novel clinical test to diagnosed ‘impaired phosphate tolerance’
2015-16	Martinez-Cajas	Development of a rapid molecular assay for the detection of bacteria
2015-16	Siemens	Integrative immune transcriptomic profiling to identify markers of response to BCG immunotherapy in non-muscle invasive bladder cancer
2015-16	Szulewski	Assessing clinical expertise with a multidimensional model of clinical assessment; a new model of assessment in the era of competency-based medical education
2014-15	Engel/Rudan	Computer-assisted breast conserving surgery – proof of concept study on non-palpable tumors
2014-15	Hamilton	Robotic technology to quantify neurological outcome after surgery
2014-15	Leveridge	Management and outcomes of testicular cancer in routine clinical practice
2014-15	Maslove	Intelligent monitoring for hospital inpatient based on continuous physiologic signals
2014-15	Neder	Novel approach to fight vascular dysfunction in the early stages of COPC
2014-15	Renwick	Optimizing cancer care delivery through maximally informative molecular diagnostics
2014-15	Seitz	Surgery and anesthesia and risk of developing dementia

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2014-15	Vanner	FODMAPs and the irritable bowel syndrome
2015-16	Berman	Towards a metabolomics classification of prostate cancer using mass spectral imaging
2013-14	Boyd	Serum proteomics to identify novel biomarkers that predict neurologic recovery after cardiac arrest
2013-14	Hall	Do more and more medical tests lead to more cancer diagnoses with better prognosis?
2013-14	Howes	An innovative strategy to improve patient outcomes and support remote access to care during medical emergencies in Ontario
2013-14	Levy	Precise evaluation of motor and non-motor dysfunction in Parkinson's disease and parkinsonian model using KINARM
2013-14	McGraw	Using hand and instrument motion analysis to assess competence in simulated and real central venous catheter insertion
2013-14	Muscedere	Bacteremia antibiotic length actually needed for clinical effectiveness (BALANCE): a pilot randomized controlled clinical trial
2013-14	Neder	Optimizing cardiac rehabilitation in chronic heart failure: a randomized, placebo-controlled trial of dietary nitrate supplementation
2013-14	Petrof	Elucidating the factors that determine success in fecal transplant therapy for <i>C. difficile</i> infections
2012-13	Davies	Comprehensive, non-invasive prenatal genetic testing via maternal blood: a proof-of-concept study

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2012-13	Evans	A prospective evaluation of the safety and effectiveness of a provincial prehospital trauma bypass guideline for adult major trauma patients in Eastern Ontario
2012-13	Henry	Prospective, randomized, controlled trial comparing conservative therapies for the alleviation of knee pain in knee osteoarthritis
2012-13	Johri	Three-dimensional carotid ultrasound combined with stress echocardiography (3D CSE) for the assessment of cardiovascular disease
2012-13	Leveridge	Management and outcomes of testicular cancer in routine clinical practice: a population-based outcomes study
2012-13	Lougheed	<i>AsthmaLife</i> : integrating performance evaluation into the process of asthma care
2012-13	Muscedere	Prevention of nosocomial infections in critically ill patients with lactoferrin (PREVAIL) study
2012-13	Nanji	Molecular profiling to improve outcomes in patients with hepatocellular carcinoma
2012-13	Nickel	A prospective randomized technology assessment trial of prostate laser implementation in a Canadian hospital
2012-13	Saha	Does the speed of sternal retraction during cardiac surgery affect postoperative pain outcomes: a randomized controlled trial
2012-13	Turner	Use of Boussignac CPAP system immediately following extubation to improve lung function in adults with moderate to severe obstructive sleep apnea who are not morbidly obese
2012-13	Viola	Evaluation of community palliative care initiatives to

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		reduce hospital utilization in Southeastern Ontario
2011-12	Dagnone	Validation of simulation-based assessment methodology for evaluating resuscitation skills in emergency medicine postgraduate trainees
2011-12	Davies (formerly Armour)	Non-invasive detection of fetal aneuploidy via maternal blood: a pilot study
2011-12	Holden	Vitamin K to attenuate the progression of coronary artery calcification in hemodialysis patients: a pilot randomized trial
2011-12	Ilan	An interdisciplinary interdepartmental quality improvement intervention to ensure appropriate care for patients with sepsis at KGH
2011-12	Pichora	Advanced 3D imaging and planning of surgical shoulder reconstruction
2011-12	Rauh	Towards earlier detection and personalized diagnosis in myelodysplastic syndromes: a SEAMO-driven initiative of the Canadian MDS consortium
2011-12	Seitz	Volunteers adding life in dementia: a person-centred intervention to reduce behavioural symptoms and improve the quality of life of older adults with dementia
2011-12	Siemens	A randomized, placebo-controlled phase 2 study of the effect of a transdermal nitric oxide mimetic on biomarkers of immune escape in prostate cancer patients
2011-12	Smith, G.	The development, implementation and evaluation of a postpartum maternal profile on discharge report
2010-11	Bruder	Emergency department ultrasound in renal colic

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2010-11	Heyland	Advance care planning evaluation in elderly patients: a multi-centre prospective study: the ACCEPT study
2010-11	Johri	Storm preparations; use of carotid ultrasound for assessment of atherosclerotic disease
2010-11	Mark	Use of high-fidelity patient simulation to identify factors affecting the performance of interprofessional teams in a community hospital
2010-11	Payne	Remote ischemic preconditioning in high-risk cardiovascular surgery patients: a randomized controlled trial
2010-11	Petrof	Developing fecal probiotics to combat refractory C. Difficile infection. A novel treatment for a major health care problem in Ontario
2010-11	Roberts	School-based mental health curriculum: integrated pathway for care model for youth mental health promotion, early identification prevention and healthcare
2009-10	Beiko	A pilot study assessing the feasibility of outpatient tubeless percutaneous nephrolithotomy
2009-10	Brown	Optimizing conservative management of patients with severe peripheral arterial disease
2009-10	Fitzpatrick	Evaluation of a simplified ambulatory algorithm for the diagnosis and treatment of suspected obstructive sleep apnea
2009-10	Green	Access to primary care after house and during regular office house and utilization of outside healthcare resources
2009-10	Ilan	Outcomes manager to improve adherence to best practices in critical care

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2009-10	Rudan	Hip biometrics and arthritis prevention through management of femoro-acetabular impingement
2009-10	Siemens	Urinary miRNS as a biomarker for urothelial cancer
2009-10	Smith, G.	The development implementation and evaluation of a Cardiovascular Risk Screening Program for women post-partum
2008-09	Bicknell	The use of upper extremity joint analysis in the care of the orthopedic patient
2008-09	Brison	A clinical decision to exclude acute coronary syndrome in ED patients with chest pain
2008-09	Harrison	Measuring objective changes in the physical, psychological and radiographic status of patients awaiting hip or knee replacement surgery
2008-09	Heyland	Performance enhancement of the Canadian nutrition guidelines by a tailored implementation strategy: The PERFECTIS Study
2008-09	Lougheed	Promoting evidence-based asthma care and knowledge translation (PEACKT): Southeastern Ontario Asthma Care Network
2008-09	Paterson	Development and validation of processes to optimize inpatient colonoscopy efficiency and thereby decrease hospital length of stay
2008-09	Simpson/LaHaye	The development, implementation and evaluation of a pacemaker/ICD pre-implantation wait list management system and post-implantation patient tracking system
2008-09	Smith, C.	Improving efficiencies of patient flow in the context of new PAIRO work hour restrictions.

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		Impact of discharge planners on inpatient medical teams
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