



# 2020

# ANNUAL REPORT



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# MISSION STATEMENT

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PSI Foundation is a non-profit  
**physician-centred organization**  
dedicated to improving the  
**health of Ontarians**  
through excellence and innovation in  
**clinically relevant research and education.**





# HISTORICAL BACKGROUND

1947

In November 1947, PSI became the largest prepaid medical care plan in Canada, sponsored by the Ontario Medical Association and supported by about 8,000 practicing physicians in Ontario.

1969

In September 1969, PSI ceased operation due to the implementation of Ontario Health Insurance Plan (OHIP). Remaining funds were used to establish a foundation and the income would be used for charitable activities within the health field.

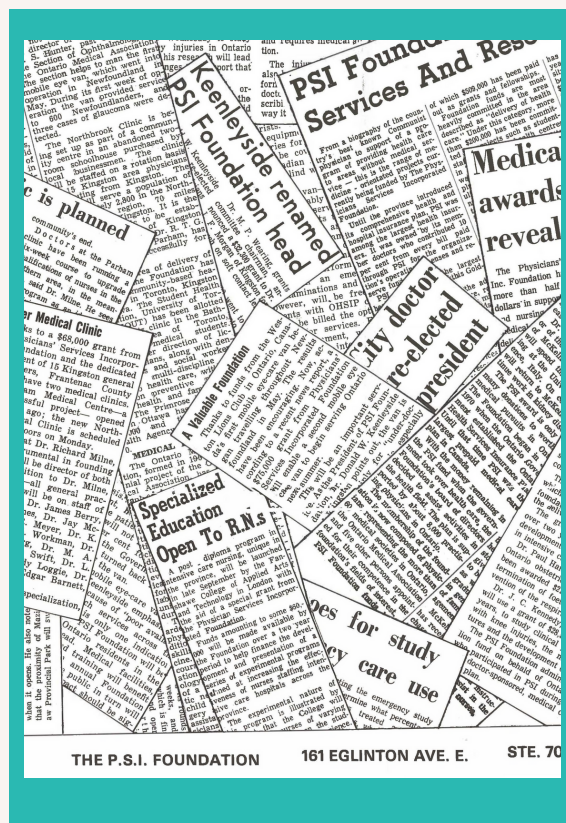
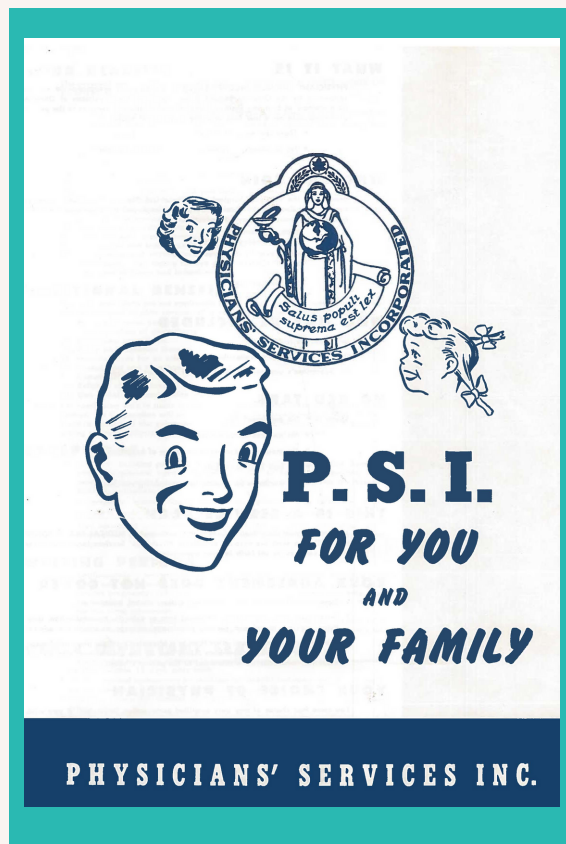
1970

PSI Foundation was incorporated on June 4th, 1970, under the laws of the Province of Ontario and was registered with the Canada Revenue Agency as a public charitable foundation under the Federal Income Tax Act.

## SOURCE OF FUNDS

The original capital of the Foundation came from the remaining funds of Physicians' Services Incorporated, the doctor-sponsored prepaid medical care plan.

Although the Foundation does not solicit funds, as a charitable organization it is able to accept donations or bequests and to provide receipts for tax purposes.



THE P.S.I. FOUNDATION

161 EGLINTON AVE. E.

STE. 70



# PSI FOUNDATION 2020-2021

## OFFICERS

W.D. Hemens, MD  
*President*

A.J. Baker, MD\*\*  
*Vice-President*

C.R. Walker, MD\*  
*Vice-President*

S.J. Moore, MA  
*Executive Director*

## AUDITORS

KPMG LLP

## BANKERS & CUSTODIANS

Royal Bank of Canada  
Royal Trust Corporation of Canada

## GENERAL COUNSEL

Fleming, White & Burgess

## INVESTMENT COUNSEL

18 Asset Management Inc.†

Beutel, Goodman & Company Limited

Connor, Clark & Lunn Investment Management Ltd.

Connor, Clark & Lunn Institutional Infrastructure Fund

Crestpoint Real Estate Investments Ltd.

\*joined committee in 2020

\*\*stepped aside in 2020

†relationship ended in 2020

‡retired in 2020

## BOARD OF DIRECTORS

A.J. Baker, MD  
Chief, Department of Critical Care  
St. Michael's Hospital

C.R. Walker, MD  
Professor of Pediatrics  
Western University

G. Bodkin, CPA, CA  
Partner  
BDO Canada LLP

D.J. Cook, MD  
Distinguished Professor of Medicine,  
Clinical Epidemiology & Biostatistics  
McMaster University

J.W. Drover, MD  
Professor, Critical Care Medicine and Surgery  
Queen's University, Kingston Health Sciences Centre

J.C. Eby, MBA‡  
Corporate Director  
Retired Investment Banker, Scotia Capital

A.S. Gershon, MD  
Respirologist and Scientist  
Sunnybrook Health Sciences Centre

W.D. Hemens, MD  
Family Practice with ER and OB

N.A. Jumah, BSc, MD, DPhil  
Obstetrician Gynaecologist  
Thunder Bay Regional Health Sciences Centre

J.E. McGill, MBA  
Retired Investment Counsellor  
Highstreet Asset Management

P. Richardson, CPA, CA, CFA  
Richardson Investment Consulting

J.A. Sharp, retired CPA, CA‡





## EXECUTIVE COMMITTEE

W.D. Hemens, *Chair*  
D.J. Cook  
N. Jumah\*  
P. Richardson\*  
C.W. Walker\*  
J. Sharp\*\*  
A.J. Baker\*\*

## GOVERNANCE COMMITTEE

C.R. Walker, *Chair*\*  
J. Sharp\*\*  
A.J. Baker\*\*

## FINANCE COMMITTEE

P. Richardson, *Chair*  
J. Sharp, *Former Chair*\*\*  
G. Bodkin, *Vice Chair*  
C.R. Walker\*  
J. Eby  
W.D. Hemens  
A. Horan§  
J. McGill  
R.Y. McMurtry§  
A.J. Baker\*\*

## GRANTS COMMITTEE

A.J. Baker, *Co-Chair*  
D.J. Cook, *Co-Chair*  
J.W. Drover  
A.S. Gershon  
W.D. Hemens  
I. Husain§  
N. Jumah  
W.J. King§  
C.R. Walker

## NOMINATING COMMITTEE

J.W. Drover, *Chair*  
A.S. Gershon

## MANAGEMENT & STAFF

S. Moore  
J. Haxton  
A. Matsumoto  
H. Bruder  
E. Lee\*

\*joined in 2020

\*\*stepped aside in 2020

§special Non-Director Committee member



# HOUSE OF DELEGATES MEMBERSHIP LIST

## MEDICAL SOCIETY REPRESENTATIVES

SOCIETY NAME	NAME
Cambridge Academy of Medicine . . . . .	V. Cherniak, MD
Central Toronto Clinical Society . . . . .	J.H.C. Chiu, MD
Cornwall Academy of Medicine . . . . .	R. Menon, MD
Doctor's Hospital Medical Society . . . . .	R. Frankford, MD
Dufferin County Medical Society . . . . .	G.A. Vanderburgh, MD
Eglinton Medical Society . . . . .	J.J. Lipsitz, MD
Greater Niagara Medical Society . . . . .	N.S. Huq, MD
Grey County Medical Society . . . . .	K.W. Clark, MD
Haldimand County Medical Society . . . . .	I. McMichen, MD
Halton County Medical Society . . . . .	G.J.M. Maley, MD
Hamilton Academy of Medicine . . . . .	D. Cook, MD
Hastings & Prince Edward Medical Society . . . . .	M. Holowaty, MD
Hospital for Sick Children Medical Society . . . . .	Y. Finkelstein, MD
Kent County Medical Society . . . . .	I. J. MacLean, MD
Kingston Academy of Medicine . . . . .	J. Drover, MD
Kirkland District Medical Society . . . . .	R. Denton, MD
Kitchener-Waterloo Academy of Medicine . . . . .	J.C. Craig, MD
The London & District Academy of Medicine . . . . .	C.R. Walker, MD
Muskoka Medical Society . . . . .	W.D. Hemens, MD
Norfolk County Medical Society . . . . .	G.F. Fisher, MD
North Bay District Medical Society . . . . .	H.G. McKercher, MD
North Peel Medical Society . . . . .	K.J. Armitage, MD
Northwestern Ontario Medical Society . . . . .	J.A. Spencer, MD
Ottawa Academy of Medicine . . . . .	W.J. King, MD
Oxford County Medical Society . . . . .	D.A. Neal, MD
Parry Sound Medical Society . . . . .	D. Hardie, MD
Peterborough County Medical Society . . . . .	G. Powell, MD
Renfrew County Medical Society . . . . .	D. Park, MD
St. Michael's Hospital Clinical Society . . . . .	A.J. Baker, MD
Scarborough Clinical Society . . . . .	K.H. Ng, MD
Sudbury District Medical Society . . . . .	S. Nawaz, MD
Sunnybrook Medical Society . . . . .	A. Gershon, MD
Thunder Bay Medical Society . . . . .	V. DeSa, MD
Toronto East Medical Society . . . . .	B. Kee, MD
Toronto Hospital Clinical Society . . . . .	D.J. McNeely, MD
Winchester-Kemptville Medical Society . . . . .	G.N. Houze, MD
York Central Medical Society . . . . .	P.C.Y. Woo, MD
York-Finch Medical Society . . . . .	C.H. Baxter, MD

## BOARD APPOINTEES

G. Bodkin, CPA, CA  
J. Eby, MBA  
N.A. Jumah, MD  
J. McGill, MBA  
P.M. Richardson, CPA, CA, CFA  
J. Sharp, CPA, CA

## ONTARIO MEDICAL ASSOCIATION REPRESENTATIVES

C. Clarson, MD  
J. Tsang, MD  
H. Yousuf, MD



## PRESIDENT'S REMARKS

2020: The Coronavirus COVID-19 (SARS-CoV-2) global pandemic altered every aspect of daily life. Global research efforts by necessity began to focus on identifying the virus, mapping its genome and developing vaccines. Through open platforms, access to the latest scientific data was made available worldwide. Collaborations between big pharma and universities, previously avoided, worked in synergy and produced results in record times previously unthinkable.

On March 11, 2020, the World Health Organization declared COVID-19 to be a global pandemic. On that very date, the PSI Foundation launched a call for COVID-19 research grant applications. Our plan was to have a quick turn-around time in order to provide the much needed funding to the researchers, as soon as possible, at the latest within a couple of months.

Our expectations were that we would receive twenty to thirty grant applications: we received 109! Our grants committee members were busy with COVID-19 government committees, as well as increased clinical responsibilities. Nonetheless they reviewed all grants and funding of \$1.1 million was awarded.

The researchers we have supported now face new challenges. Universities have limited research that is not COVID-based. Our clinician scientist grantees were forced to put their work in progress on hold. We provided them an across the board one year extension to all current grants. We have ongoing discussions with each of our six universities with regards to how we might provide future support.

Our finance committee worked diligently to ensure that the endowment was well protected in the volatile markets while providing returns that allowed us to not only grow our assets.



**W.D. Hemens**





## PRESIDENT'S REMARKS (CONTINUED)

2020 was the fiftieth anniversary of the incorporation of the PSI Foundation. Festivities that were to include hosting a clinical day to celebrate our current and past clinicians, and to host the First International Congress of Health Research Alliance meeting in Toronto, were postponed.

In lieu and to celebrate our milestone, we established in partnership with the six Ontario universities to create a PSI-50 Mid-Career Clinical Research Award. This award was enthusiastically received provincially.

To highlight our commitment to supporting research in mental health and addiction, we also awarded two Mental Health Knowledge Translation Fellowships. For details, please visit [psifoundation.org](https://psifoundation.org).

There have been significant challenges in managing the foundation through this pandemic. The Board continues to be supportive of the expert management of our Executive Director Sam Moore, who oversaw the transition with great agility and composure from an office-based organization to that of a virtual one. Sam has been skillfully assisted by Ms. Heather Bruder, Ms. Asumi Matsumoto, Ms. Jessica Haxton and Ms. Eunice Lee. We thank them for their commitment and patience during this trying year.

We remain committed to maintaining an open dialogue with our shareholders with the uninterrupted aim of enhancing research that will help improve the health of all Ontarians.

A handwritten signature in black ink, reading "William Hennessey".



# FUNDING PROGRAMS & POLICIES

## GRANTING POLICY

PSI Foundation is a granting agency and does not normally engage directly in charitable activities other than awarding medical fellowships. In accordance with the Federal Income Tax Act, PSI must award grants to other registered charities as defined by the Income Tax Act. Hospitals and medical schools come within this definition for the purposes of the Foundation's granting activities. Organizations seeking funds must provide the organization's charitable registration number issued by the Canada Revenue Agency. It is a policy of the Foundation to devote its funds to charitable endeavours in the health field within the Province of Ontario only.

## AREAS OF NON-SUPPORT

While not an all-inclusive list, the following areas are not supported by the Foundation:

- Annual fund raising campaigns
- Building funds or other capital cost campaigns
- Research in the areas of cancer, heart and stroke, drug and alcohol abuse, pharmaceutical drug development studies or where there is relatively more funding opportunities available through other agencies
- Systematic reviews and meta-analyses
- Operating costs of any organization or department
- Budget deficits
- Service programs
- Ongoing research
- Major equipment, unless required for a research project being supported by the Foundation
- Projects outside the Province of Ontario
- Films, books and journals

PSI Foundation will support only one project per investigator at any given time. If an investigator is currently being supported by the Foundation as the principal investigator, PSI will not consider an application for a new project until the current granting period has ended.

## APPLICATION PROCEDURE

Application guidelines and forms are available on the [Foundation's website](#). While PSI obtains independent appraisals of operating grant applications, the final decision on each application lies with the Grants Committee and Board of Directors.

If in doubt as to whether a proposal would fit within PSI's interests or policies, please [contact the Foundation](#) for assistance.



# FUNDING PROGRAMS & POLICIES

## FUNDING PROGRAMS

PSI's granting interests focus on two areas - education of practising physicians and health research with emphasis on research relevant to patient care.

### OPERATING GRANTS

#### HEALTH RESEARCH

Within this broad category, PSI's preference is to support research that is of direct relevance to the care of patients. PSI offers funding in the following streams:

##### Clinical Research

Clinical research is defined as research that is of direct relevance to patient care. Studies involving animals will be considered only if the animals are required as an immediate patient surrogate, which should be indicated in a written statement attached to the application.

##### Medical Education Research

Funds are available to support research projects designed to assess the post M.D. educational environment such as curricula, methods and teaching resources. PSI Foundation recognizes that research within this area may involve teams that include non-medical researchers.

##### Health Systems Research

Research focusing within the health care system, such as preventive medicine, care of the elderly, communications within the system, underserved regions and ways of enhancing the effectiveness of medical practice, will be considered under this category.

The maximum amount and duration is \$250,000 over 3 years, with a maximum of \$100,000 for any year.

#### NEW INVESTIGATOR RESEARCH

This funding stream is only available to those investigators within the first 5 years of his or her first academic appointment or clinical fellows. The maximum amount and duration is \$300,000 over 3 years, with a maximum of \$100,000 for any year.

#### RESIDENT RESEARCH

Medical research being undertaken by a resident will be considered if the project is supervised by a physician with an academic appointment. A resident project's maximum duration is two years, with a maximum amount of \$30,000.

#### HEALTHCARE RESEARCH BY COMMUNITY PHYSICIANS

Within this funding stream, physicians practising in a community setting may apply for a grant to assist them in undertaking a review of their practice patterns which would enhance effectiveness of practice and patient care in their own clinic, hospital or region.

The maximum amount and duration is \$250,000 over 3 years, with a maximum of \$100,000 for any year.





# FUNDING PROGRAMS & POLICIES

## FUNDING PROGRAMS (CONTINUED)

### COVID-19 EXPEDITED FUNDING STREAM

This one-time funding opportunity allowed eligible applicants to submit a COVID-19 research application under the standard operating grants funding streams, while fast-tracking the review process.

### SALARY SUPPORT

#### GRAHAM FARQUHARSON KNOWLEDGE TRANSLATION FELLOWSHIP

Knowledge translation research aims at transitioning research discoveries to the real world to improve health outcomes. This prestigious Fellowship protects research time of a new, promising clinician, thereby allowing the Fellow the opportunity to pursue their research interests.

To best meet potential fellows' needs, PSI allows each fellow to allocate award funds to either \$150,000 per year for two years or \$100,000 per year for three years.

#### RESEARCH TRAINEE AWARD

The primary aim of this fellowship is to provide highly qualified Medical Doctors (MD's) with clinically applicable research training opportunities and support. Applicants must be an M.D. in a Ph.D. or MSc. program at an Ontario university or in a combined M.D./Ph.D. or MSc. program at an Ontario university.

### EDUCATIONAL SUPPORT

#### EDUCATIONAL FELLOWSHIP FOR PRACTISING PHYSICIANS

This fellowship is directed at physicians in Ontario, particularly those residing outside of the teaching centres, who wish to take a period of training to bring a needed clinical skill or knowledge to the community or to undertake training in research methodology.

The fellowship provides course fees, if any, transportation, room, and board costs. Funds are not provided to replace income lost while undertaking a training program and the program is not designed to assist physicians taking refresher courses.

Applications will be considered for support of physicians who have undertaken training courses that commenced up to three months prior to the time the application is considered.



# FUNDING PROGRAMS & POLICIES

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## PROGRAM ACTIVITIES

### 50TH ANNIVERSARY FUNDING STREAMS

In celebration of our 50th anniversary, PSI launched the following one-time funding opportunities:

#### **MENTAL HEALTH KNOWLEDGE TRANSLATION FELLOWSHIP**

This prestigious Fellowship protects research time of a new, promising clinician, thereby allowing the Fellow the opportunity to pursue their research interests. This new fellowship is specifically earmarked for mental health research.

#### **PSI-50 MID-CAREER CLINICAL RESEARCH AWARD**

This award for mid-career scientists recognizes that this phase of a researcher's career is particularly challenging, with additional academic roles and responsibilities as well as the ongoing clinical work, and it will protect research time for research that aligns with PSI Foundation priorities.

### PROGRAM ACTIVITIES

Program Activities include non-direct granting funds that allow the Foundation to engage stakeholders and respond to their needs.

#### **PSI VISITING SCHOLARS**

PSI's Visiting Scholar funding program aims to support a specific need identified by a given medical university and PSI's Grants Committee. This program provides funds for a medical university to attract an external expert to address such a need. This program is open to all six medical universities in Ontario.

#### **LUNCH & LEARNS**

The purpose of the Lunch and Learn program is to connect with clinician researchers at the six medical universities in Ontario to increase understanding of PSI's funding programs and priorities, as well as connect new investigators and faculty with well-established researchers.

#### **FELLOWS RETREAT**

The purpose of the Fellows Retreat is to provide the Graham Farquharson Knowledge Translation (KT) Fellows with an opportunity to connect with each other and allow PSI to receive constructive feedback on both the Graham Farquharson Knowledge Translation Fellowship program and PSI overall.



# 2020 GRANTING ACTIVITIES

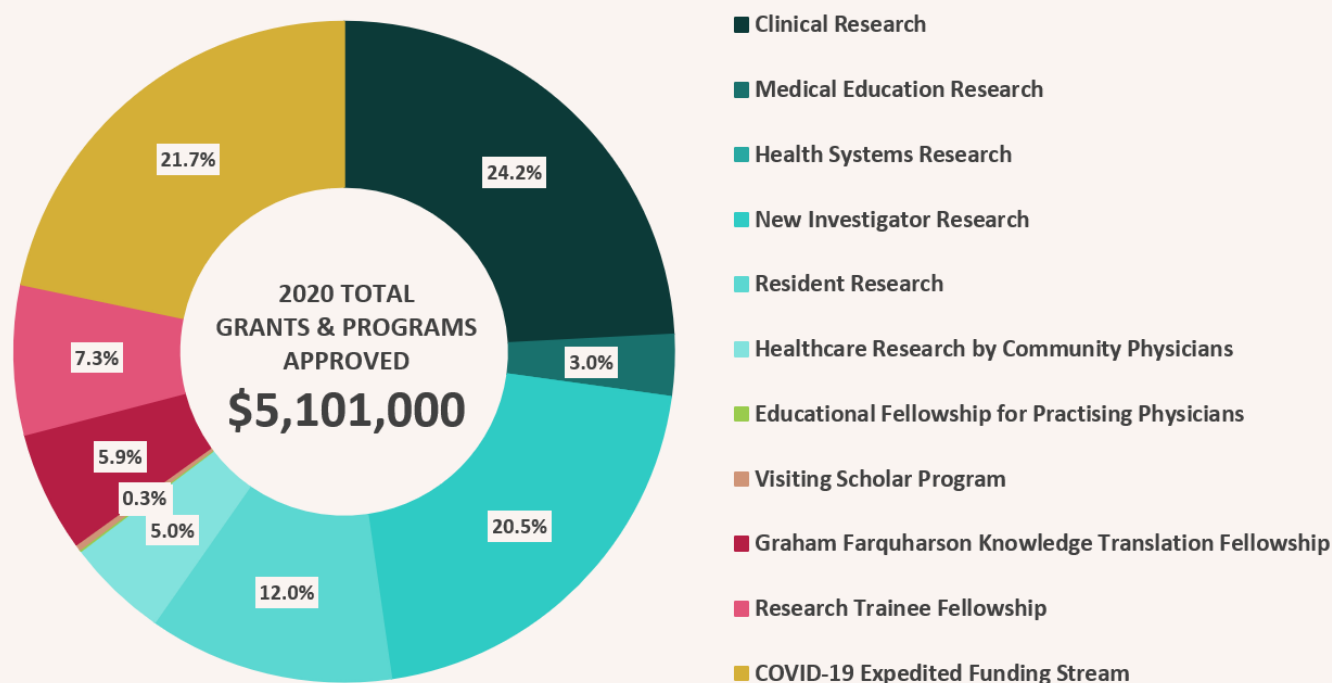
## OVERVIEW

PSI received 125 eligible applications in 2020 totalling \$15.5 million across the funding streams of Health Research, New Investigator, Resident Research, Community-Based Research, and Educational Fellowship for Practising Physicians. Of these 125 eligible applications in 2020, the Committee approved a total of 41 grants totalling \$3.3 million.

In addition to the above funding streams, PSI awarded one PSI Graham Farquharson KT Fellowship (\$300,000) and eight Research Trainee Fellowships (\$373,500).

Furthermore, PSI received over 100 applications for the COVID-19 Expedited Funding Stream. The Committee approved 6 grants, totalling \$1.1 million.

PSI would like to thank all of the applicants for their submissions, external peer reviewers for enhancing the scientific rigour of the granting program, and Ontario institutions for supporting PSI with the award process.



## ENHANCEMENTS

In 2020, the Grants Committee made the following enhancements to PSI's funding programs:

- Launched a new online grants management system that allows researchers to apply for PSI's funding programs, follow the status of applications, submit any post-award deliverables, track status of payments released by PSI, and review assigned applications as external peer reviewers
- Increased the amount and duration of funding for New Investigator grants from \$250,000/3 years to \$300,000/3 years
- To support award holders during COVID-19, PSI extended all current award funding periods by 6 months



# 2020 GRANTING ACTIVITIES

## GRANTS & PROGRAMS APPROVED

Please visit our [website](#) for additional details.

### GRANTS

#### New Investigator

<u>Dr. R. Mansur</u> University Health Network	<i>Adjunctive Semaglutide for the Treatment of Cognitive Dysfunction in Major Depressive Disorder: A Randomized, Double-Blind, Placebo-Controlled Study</i>	3 years	\$249,000
<u>Dr. R. Ohle</u> Health Sciences North	<i>A best practice diagnostic and treatment algorithm for benign paroxysmal positional vertigo: a multi-centre implementation study</i>	2 years	\$199,000
<u>Dr. M.L. Avila</u> Hospital for Sick Children	<i>Unraveling the mechanisms of disease in pediatric post-thrombotic syndrome</i>	18 months	\$75,000
<u>Dr. L. Eder</u> <u>Dr. D.D. Gladman</u> Women's College Hospital	<i>Derivation of a psoriatic arthritis risk estimation tool (PRESTO): a step towards prevention</i>	3 years	\$219,000
<u>Dr. A. Szulewski</u> Queen's University	<i>Enhancing metacognition in simulation: evaluating the impact of eye-tracking augmented debriefing</i>	1 year	\$67,000
<u>Dr. M. Khan</u> <u>Dr. A. Bedi</u> McMaster University	<i>Shoulder instability trial comparing arthroscopic stabilization benefits compared with Latarjet procedure evaluation (STABLE)</i>	3 years	\$238,000

#### Clinical Research

<u>Dr. S. Singh</u> Ottawa Hospital Research Institute	<i>Characterisation of tissue stiffness to improve the diagnosis and management of uterine fibroids: The use of shearwave elastography to stratify treatment recommendations</i>	3 years	\$250,000
<u>Dr. A. Perlas</u> University Health Network	<i>Do standard preoperative fasting instructions ensure an empty stomach in diabetic patients: A prospective comparative cohort study</i>	2 years	\$187,000
<u>Dr. A. Burns</u> University Health Network	<i>Enhancing our understanding of the evolving impact of neurogenic bowel dysfunction from acute onset spinal cord injury to long-term community reintegration</i>	3 years	\$246,000



## 2020 GRANTING ACTIVITIES

### GRANTS & PROGRAMS APPROVED (CONTINUED)

#### Clinical Research (continued)

<u>Dr. J. Shaw</u> <u>Dr. M. Carrier</u> Ottawa Hospital Research Institute	<i>Global assessment of hemostatic TGA indices following the use of prothrombin complex concentrates for major bleeding or urgent surgery in patients treated with factor Xa inhibitors GAUGE - a prospective observational cohort study</i>	2 years	\$100,000
<u>Dr. F. Alam</u> <u>Dr. P. Giacobbe</u> Sunnybrook Health Sciences Centre	<i>Virtual reality as a tool to reduce pre-procedure anxiety prior ECT via enhancing patient education (PERFECT-VR)</i>	3 years	\$250,000
<u>Dr. M. Rieder</u> Western University	<i>Evaluation of delayed hypersensitivity reactions to beta-lactam antibiotics; enabling delabelling</i>	2 years	\$200,000

#### Medical Education Research at the post M.D. Level

<u>Dr. M. Sibbald</u> McMaster University	<i>Diagnostic error and decision support systems</i>	2 years	\$154,000
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#### COVID-19 Expedited Funding Stream

<u>Dr. H. Tsui</u> <u>Dr. R. Kozak</u> Sunnybrook Health Sciences Centre	<i>Evaluation of Clinically Banked Upper Respiratory Tract Derived RNA for Transcriptome Based Biomarkers Associated with COVID-19 Severity and Immune Response</i>	1 year	\$99,000
<u>Dr. M. Bhatt</u> <u>Dr. R. Zemek</u> Children's Hospital of Eastern Ontario	<i>Natural Evolution of Serum Antibodies in Children and Adults with SARS-CoV-2 and Household Contacts</i>	2 years	\$245,000
<u>Dr. I. Bayoumi</u> <u>Dr. E. Purkey</u> Queen's University	<i>The Cost of COVID: Primary Care Interventions to support the Social and Emotional Impacts of the COVID-19 Pandemic on Children, People Experiencing Intimate Partner Violence and Urban Indigenous People</i>	1 year	\$100,000
<u>Dr. J. Martinez-Cajas</u> <u>Dr. Y. Gong</u> Queen's University	<i>An Assessment of Serologic Evidence of COVID-19, Social and Occupational Contacts in Health Care Workers in a Sample of Long-Term Care and Acute Care Facilities in South Eastern Ontario</i>	2 years	\$196,000
<u>Dr. R. Wu</u> <u>Dr. A. Gershon</u> <u>Dr. E. de Lara</u> University Health Network	<i>Covidfree@home: At Home Monitoring using Mobile Devices for Patients with Covid19</i>	3 years	\$218,000



## 2020 GRANTING ACTIVITIES

### GRANTS & PROGRAMS APPROVED (CONTINUED)

#### COVID-19 Expedited Funding Stream (continued)

<u>Dr. A. McGeer</u> Sinai Health System	<i>COVID-19 Cohort Study (CCS): Study of the epidemiology of COVID-19 in healthcare workers and their households</i>	3 years	\$250,000
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#### Resident Research

<u>Dr. P. Wang</u> <u>Dr. J. Flemming</u> Queen's University	<i>Epidemiology of cirrhosis and intrahepatic cholangiocarcinoma in Ontario - The echo and IHCC databases: Contemporary epidemiology and prediction of mortality and dialysis dependence in patients with cirrhosis and acute kidney injury</i>	2 years	\$27,000
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<u>Dr. J. Blom</u> <u>Dr. G. Smith</u> Queen's University	<i>Postpartum low-dose aspirin after preeclampsia for optimization of cardiovascular risk (PAPVASC): A randomized controlled trial</i>	2 years	\$30,000
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<u>Dr. M. Lorenzo</u> <u>Dr. K. Boutis</u> Hospital for Sick Children	<i>Deliberate Practice as an Educational Method for Differentiating Abusive versus Accidental Burn and Bruise Injuries in Children</i>	1 year	\$29,500
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<u>Dr. T. Apramian</u> <u>Dr. E. Gallagher</u> McMaster University	<i>Theorizing quality improvement in advance care planning for family medicine residents</i>	8 months	\$9,500
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<u>Dr. L. Ho</u> <u>Dr. P. Peng</u> University Health Network	<i>Applied Anatomy of Wrist Innervation relevant to Ultrasound Guided Pain Intervention</i>	1 year	\$19,500
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<u>Dr. P. Tiessen</u> <u>Dr. F. Campbell</u> Hospital for Sick Children	<i>Pain Rehabilitation Virtual Reality (PR-VR) at-home program: A pilot randomized controlled trial to determine feasibility and impact on pain and function in adolescents during and after COVID-19</i>	1 year	\$30,000
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<u>Dr. J. Feder</u> <u>Dr. A.T. Lobos</u> Children's Hospital of Eastern Ontario	<i>Impact of Nighttime MET activations on Hospitalized Pediatric Patients</i>	2 years	\$27,500
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<u>Dr. D. Rushani</u> <u>Dr. B. Yanagawa</u> St. Michael's Hospital	<i>Gender Disparity in Surgical Education</i>	1 year	\$20,000
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## 2020 GRANTING ACTIVITIES

### GRANTS & PROGRAMS APPROVED (CONTINUED)

#### Resident Research (continued)

<u>Dr. M. Popovic</u> <u>Dr. M.B. Schlenker</u> University of Toronto	<i>Preoperative Fasting for Ambulatory Cataract Surgery: A Time-Interrupted Prospective Study (The PRACTICE Study)</i>	2 years	\$20,000
<u>Dr. O. Khan</u> <u>Dr. K. Carter</u> <u>Dr. D. Grushka</u> Western University	<i>Training of Canadian family medicine residents for POCUS screening of AAAs: A feasibility study</i>	1 year	\$20,000
<u>Dr. A. Gazendam</u> <u>Dr. S. Ekhtiari</u> <u>Dr. O. Ayeni</u> McMaster University	<i>Non-Opioid Prescriptions after Arthroscopic Surgery in Canada (NO PAin): A Randomized Controlled Trial</i>	1 year	\$29,500
<u>Dr. C. Cooke</u> <u>Dr. S.S. Singh</u> Ottawa Hospital Research Institute	<i>3D Printing in deep endometriosis – the impact on surgical approach and patient outcomes</i>	2 years	\$30,000
<u>Dr. C. Siu</u> <u>Dr. J. Hulme</u> <u>Dr. K. Hayman</u> University Health Network	<i>Understanding the experiences of non-insured individuals in Toronto's emergency departments: a qualitative analysis</i>	1 year	\$26,000
<u>Dr. J. Jacob-Brassard</u> <u>Dr. C. De Mestral</u> St. Michael's Hospital	<i>Contemporary Procedural Management of Peripheral Arterial Disease in the Province of Ontario</i>	1 year	\$20,000
<u>Dr. J. McCall</u> <u>Dr. R. Nitsch</u> Queen's University	<i>Impostor phenomenon among female surgeons</i>	2 years	\$29,500
<u>Dr. S. Antoniadis</u> <u>Dr. G. Grammatopoulos</u> Ottawa Hospital Research Institute	<i>A motion analysis study of patients with and without lumbar spine arthrodesis to unravel the effect of spino-pelvic mobility on THA outcome</i>	1 year	\$29,500
<u>Dr. S. Zayed</u> <u>Dr. D. Palma</u> Western University	<i>Opioid therapy vs multimodal analgesia in head and neck cancer (OPTIMAL-HN): a randomized clinical trial</i>	2 years	\$30,000
<u>Dr. L. Hachem</u> <u>Dr. C. Tator</u> University Health Network	<i>AMPA receptor modulation to enhance neural stem cell regeneration after spinal cord injury</i>	1 year	\$30,000
<u>Dr. L. Madrazo</u> London Health Sciences Centre Research Inc. (LHSCRI)	<i>Exploring the Impact of COVID-19 on Residents' Professional Identity Formation</i>	2 years	\$10,500



## 2020 GRANTING ACTIVITIES

### GRANTS & PROGRAMS APPROVED (CONTINUED)

#### Resident Research (continued)

<u>Dr. R. Khan</u> <u>Dr. C. Walsh</u> Hospital for Sick Children	<i>Improving optical diagnosis and management decision making skills for colorectal polyps using cognitive simulation with deliberate practice: a prospective cohort study</i>	1 year	\$29,000
<u>Dr. S. Liauw</u> <u>Dr. A. Cheema</u> St. Michael's Hospital	<i>Long term outcomes after acute coronary syndrome in patients who are homeless: a retrospective cohort study</i>	1 year	\$20,000
<u>Dr. V. Tang</u> <u>Dr. Z. Daskalakis</u> Centre for Addiction and Mental Health	<i>Repetitive transcranial magnetic stimulation for suicidality in opioid use disorders</i>	1 year	\$30,000
<u>Dr. X. Mei</u> <u>Dr. P. Kuzyk</u> Sinai Health System	<i>Targeted delivery of fetuin using titania nanotubes for prevention and treatment of heterotopic ossification</i>	2 years	\$20,000
<u>Dr. R. Ribeiro</u> <u>Dr. B. Yanagawa</u> St. Michael's Hospital	<i>An innovative and comprehensive cardiac surgical simulation curriculum</i>	1 year	\$15,500
<u>Dr. C. Sue-Chue-Lam</u> Unity Health Toronto - St. Michaels Hospital	<i>Fall-Related and Thermal Injuries in Patients with Nonmetastatic Colorectal Cancer Treated with Oxaliplatin</i>	1 year	\$30,000

#### Healthcare Research by Community Physicians

<u>Dr. B. Devin</u> Winchester District Memorial Hospital	<i>TiC Evaluations Rural Network Study: multisite evaluation of transition in care activities across an alliance of three rural hospitals in Ontario</i>	2 years	\$196,000
<u>Dr. A. Binnie</u> <u>Dr. J. Tsang</u> <u>Dr. E. Duan</u> <u>Dr. D. Joshi</u> William Osler Health System	<i>The Comparison of Clinical Characteristics And Outcomes of Adult Critically Ill Patients With COVID-19 In Community ICUs Versus Academic ICUs In Ontario</i>	2 years	\$57,500

#### Educational Fellowship for Practising Physicians

<u>Dr. M. Ballantine</u> Queen Street Medical	<i>University of Alberta - Foundation Course in Occupational Medicine Part B</i>	1 year	\$4,500
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#### Graham Farquharson Knowledge Translation Fellowship

<u>Dr. F. Razak</u> University of Toronto	<i>2021 PSI Graham Farquharson Knowledge Translation Fellowship</i>	3 years	\$300,000
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## 2020 GRANTING ACTIVITIES

### GRANTS & PROGRAMS APPROVED (CONTINUED)

#### Research Trainee Fellowship

<u>Dr. C. Vlasschaert</u> <u>Dr. M. Rauh</u> Queen's University	<i>2021 PSI Research Trainee Fellowship</i>	2 years	\$43,500
<u>Dr. A. Champagne</u> <u>Dr. D. Bardana</u> Queen's University	<i>2021 PSI Research Trainee Fellowship</i>	2 years	\$50,000
<u>Dr. P. Zeng</u> <u>Dr. A. Nichols</u> London Health Sciences Centre	<i>2021 PSI Research Trainee Fellowship</i>	2 years	\$50,000
<u>Dr. F. Germini</u> <u>Dr. A. Iorio</u> McMaster University	<i>2021 PSI Research Trainee Fellowship</i>	2 years	\$50,000
<u>Dr. A. Zhang</u> <u>Dr. M. Loeb</u> <u>Dr. M. Miller</u> McMaster University	<i>2021 PSI Research Trainee Fellowship</i>	2 years	\$50,000
<u>Dr. B. Davidson</u> <u>Dr. N. Lipsman</u> <u>Dr. C. Hamani</u> University of Toronto	<i>2021 PSI Research Trainee Fellowship</i>	2 years	\$30,000
<u>Dr. A. Mazine</u> <u>Dr. T. Yau</u> University of Toronto	<i>2021 PSI Research Trainee Fellowship</i>	2 years	\$50,000
<u>Dr. A. Cowan</u> London Health Sciences Centre Research Inc. (LHSCRI)	<i>2021 PSI Research Trainee Fellowship</i>	2 years	\$50,000

#### PROGRAMS

<u>Queen's University</u>	<i>PSI Visiting Scholar Program 2020 – Physician Wellness Peer Support Event</i>	1 year	\$15,000
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#### **GRAND TOTAL**

**\$5,101,000**



## 2020 GRAHAM FARQUHARSON KNOWLEDGE TRANSLATION FELLOW

### Dr. Tetyana Kendzerska

*"Despite the high prevalence of sleep-disordered breathing (SDB) and the high use of opioid therapy, there are no large-scale population studies that have investigated whether opioid use and pre-existing SDB may interact synergistically to increase the risk of adverse health consequences. There is also an urgent need for both greater awareness of the sleep and respiratory effects of chronic opioid use and associated risks in individuals with SDB and a proactive approach to healthcare provider discussion about sleep disorders in individuals on opioids. This award will allow our team to improve the understanding of the relationship between opioid use and SDB, and the long-term consequences of their interaction. Further, findings from this study would inform clinical decision-making and may influence the future prescription of opioids to patients in Canada with SDB. This study may also provide data on modifiable risk factors associated with adverse long-term outcomes in this population. With this knowledge, we can develop interventions and strategies to develop effective patient-driven care." – Dr. Tetyana Kendzerska*

Dr. Tetyana Kendzerska is an Assistant Professor and Clinician Investigator in the Department of Medicine at the University of Ottawa and the Ottawa Hospital Research Institute.

Dr. Kendzerska is also a Sleep Physician and Associate Scientist at The Ottawa Hospital. She is an Adjunct Scientist at ICES (formerly the Institute for Clinical Evaluative Sciences).

Her current research program focuses on establishing a research platform, Ontario Sleep Data Holding, which will represent population-based real-world data collected from individuals with sleep-related problems. This platform will be built using multiple sources and will be used to translate evidence into quality medical care and health policy.

As part of this broad-based initiative, she is interested in investigating the relationship between opioid use and sleep-disordered breathing (SDB) and in translating obtained evidence into quality medical care for this population.



**Dr. Tetyana Kendzerska**





## 2020 GRAHAM FARQUHARSON KNOWLEDGE TRANSLATION FELLOW

### Dr. Peter Tanuseputro

*“There is a large gap between how end-of-life care is currently delivered and how it could be optimally delivered. This award will allow my team to use big data to improve care for the dying. This includes building and implementing prognostic tools to identify who and when individuals should be receiving palliative care. Improving the timely reach of palliative and end-of-life care will reduce unnecessary aggressive care while increasing the quality of remaining life” – Dr. Peter Tanuseputro*

Dr. Peter Tanuseputro is an Assistant Professor in the Department of Medicine and Division of Palliative Care at the University of Ottawa.

He is also an investigator at Bruyère Research Institute, Adjunct Scientist at ICES (formerly the Institute for Clinical Evaluative Sciences), and scientist at the Ottawa Hospital Research Institute.

Dr. Peter Tanuseputro’s current research program focuses on using linked health databases to develop population perspectives on health care use and outcomes associated with aging and end-of-life in Ontario.

This includes building predictive tools to provide individualized information that can be used to improve care and outcomes.



**Dr. Peter Tanuseputro**



## 2020 RESULTS OF RESEARCH

### PUBLICATIONS ON PSI-FUNDED PROJECTS

Title	Grantee	Citation
<i>Grappling with Chronic Pain and Poverty during the COVID-19 Pandemic</i>	Dr. A. Pinto	<a href="#">Canadian J of Pain. 2020; 161:10, 2229-2235.</a>
<i>Restricted Versus Liberal Intraoperative Benzodiazepine Use in Cardiac Anaesthesia for Reducing Delirium (B-Free Pilot): A Pilot, Multicentre, Randomised, Cluster Crossover Trial</i>	Dr. J. Spence	<a href="#">Br J Anaesth. 2020 May 13;S0007-0912(20)30217-8.</a>
<i>Bacteremia Antibiotic Length Actually Needed for Clinical Effectiveness (BALANCE) randomised clinical trial: study protocol</i>	Dr. N. Daneman	<a href="#">BMJ Open. 2020; 10(5): e038300.</a>
<i>Age-Related Parkinsonian Signs in Microdeletion 22q11.2</i>	Dr. E. Boot	<a href="#">Mov Disord. 2020 May 9. doi: 10.1002/mds.28080.</a>
<i>Does N-Terminal Pro-B-Type Natriuretic Peptide Improve the Risk Stratification of Emergency Department Patients With Syncope?</i>	Dr. V. Thiruganasambandamoorthy	<a href="#">Ann Intern Med. 2020 May 19;172(10):648-655.</a>
<i>Content analysis of bowel protocols for the management of constipation in adult critically ill patients</i>	Dr. J.C. Dionne	<a href="#">J Crit Care. 2020 Apr 17;58:98-104.</a>
<i>How Ineffective Interprofessional Collaboration Affects Delivery of Breast Reconstruction to Breast Cancer Patients: A Qualitative Study</i>	Dr. H. Retrouvey	<a href="#">Ann Surg Oncol. 2020 Apr 15. doi: 10.1245/s10434-020-08463-0.</a>
<i>Minocycline as Adjunctive Treatment for Treatment-Resistant Depression: Study Protocol for a Double Blind, Placebo-Controlled, Randomized Trial (MINDEP2)</i>	Dr. M.I. Husain	<a href="#">BMC Psychiatry. 2020 Apr 15;20(1):173. doi: 10.1186/s12888-020-02553-9.</a>
<i>Randomized Control Trial of Ultrasound-Guided Erector Spinae Block Versus Shoulder Periarticular Anesthetic Infiltration for Pain Control After Arthroscopic Shoulder Surgery: Study Protocol Clinical Trial (SPIRIT Compliant)</i>	Dr. M. Czuczman	<a href="#">Medicine (Baltimore). 2020 Apr;99(15):e19721. doi: 10.1097/MD.00000000000019721.</a>
<i>Improving Health and Healthcare Access for People Who Experience Imprisonment in Ontario</i>	Dr. F. Kouyoumdjian	<a href="#">Healthc Q. 2020 Apr;23(1):6-9. doi:10.12927/hcq.2020.26146.</a>





## 2020 RESULTS OF RESEARCH

### PUBLICATIONS ON PSI-FUNDED PROJECTS (CONTINUED)

Title	Grantee	Citation
<i>Association Between Depression and Anxiety With Skin and Musculoskeletal Clinical Phenotypes in Systemic Lupus Erythematosus</i>	Dr. Z. Touma	<a href="#">Rheumatology (Oxford). 2020 Mar 28;keaa098. doi: 10.1093/rheumatology/keaa098.</a>
<i>Tackling the burden of neurological diseases in Canada with virtual care during the COVID-19 pandemic and beyond</i>	Dr. R. Appireddy	<a href="#">Can J Neurol Sci. 2020 May 12;1-9. doi: 10.1017/cjn.2020.92.</a>
<i>The role of biceps loading and muscle activation on radial head stability in anterior Monteggia injuries: An in vitro biomechanical study</i>	Dr. A. Badre	<a href="#">J Hand Ther. 2020 Jun 26;S0894-1130(20)30043-0. doi: 10.1016/j.jht.2020.03.012.</a>
<i>Addressing financial strain through a peer-to-peer intervention in primary care</i>	Dr. A. Pinto	<a href="#">Fam Pract. 2020 Jun 15;cmay046. doi: 10.1093/fampra/cmay046.</a>
<i>Reproductive patterns, pregnancy outcomes and parental leave practices of women physicians in Ontario, Canada: the Dr Mom Cohort Study protocol</i>	Dr. A. Simpson	<a href="#">BMJ Open. 2020; 10(10): e041281.</a>
<i>Feasibility of a school-based vision screening program to detect undiagnosed visual problems in kindergarten children in Ontario</i>	Dr. A. Wong	<a href="#">CMAJ. 2020 Jul 20;192(29):E822-E831. doi: 10.1503/cmaj.191085.</a>
<i>Qualitative investigation of trace-based communication: how are traces conceptualised in healthcare teamwork?</i>	Dr. C. Watling	<a href="#">BMJ Open. 2020 Nov 4;10(11):e038406. doi: 10.1136/bmjopen-2020-038406.</a>
<i>Health Services Utilization Is Increased in Poor Perceivers of Bronchoconstriction and Hyperinflation in Asthma</i>	Dr. D. Loughheed	<a href="#">J Allergy Clin Immunol Pract. 2020 Sep;8(8):2643-2650.e2. doi: 10.1016/j.jaip.2020.03.045.</a>
<i>Modeling oncolytic virus dynamics in the tumor microenvironment using zebrafish</i>	Dr. D. Mealiea	<a href="#">Cancer Gene Ther. 2020 Jul 10. doi: 10.1038/s41417-020-0194-7.</a>
<i>Reduced Flow in Delayed Graft Function as Assessed by IVIM Is Associated With Time to Recovery Following Kidney Transplantation</i>	Dr. D. Yuen	<a href="#">J Magn Reson Imaging. 2020 Jun 29. doi: 10.1002/jmri.27245.</a>
<i>Risk Factors for Bowel Injury in Hysterectomy for Benign Indications</i>	Dr. I. Chen	<a href="#">Obstet Gynecol. 2020 Oct;136(4):803-810. doi: 10.1097/AOG.0000000000004007.</a>



## 2020 RESULTS OF RESEARCH

### PUBLICATIONS ON PSI-FUNDED PROJECTS (CONTINUED)

Title	Grantee	Citation
<i>Hospital-Associated Cost of Endometriosis in Canada: A Population-Based Study</i>	Dr. I. Chen	<u>J Minim Invasive Gynecol. Jul-Aug 2020;27(5):1178-1187. doi: 10.1016/j.jmig.2019.09.771.</u>
<i>Minocycline as adjunctive treatment for treatment-resistant depression: study protocol for a double blind, placebocontrolled, randomized trial (MINDEP2)</i>	Dr. I. Husain	<u>BMC Psychiatry. 2020 Apr 15;20(1):173. doi: 10.1186/s12888-020-02553-9.</u>
<i>Economic evaluation alongside the Probiotics to Prevent Severe Pneumonia and Endotracheal Colonization Trial (E-PROSPECT): study protoco</i>	Dr. J. Johnstone	<u>BMJ Open. 2020; 10(6): e036047.</u>
<i>Local oral and nasal microbiome diversity in age-related macular degeneration</i>	Dr. J. Rullo	<u>Sci Rep. 2020 Mar 2;10(1):3862. doi: 10.1038/s41598-020-60674-3.</u>
<i>Peri-Complication Diagnosis of Hepatitis C Infection: Risk Factors and Trends over Time</i>	Dr. L. Lapointe-Shaw	<u>Liver Int. 2020 Sep 21. doi: 10.1111/liv.14670.</u>
<i>Diagnosis of Chronic Hepatitis B Peri-Complication: Risk factors and Trends over Time</i>	Dr. L. Lapointe-Shaw	<u>Hepatology. 2020 Sep 15. doi: 10.1002/hep.31557.</u>
<i>Effectiveness of Iodophor vs Chlorhexidine Solutions for Surgical Site Infections and Unplanned Reoperations for Patients Who Underwent Fracture Repair: The PREP-IT Master Protocol</i>	Dr. M. Bhandari	<u>JAMA Netw Open. 2020 Apr 1;3(4):e202215. doi: 10.1001/jamanetworkopen.2020.215.</u>
<i>Carbohydrate Counting App Using Image Recognition for Youth With Type 1 Diabetes: Pilot Randomized Control Trial</i>	Dr. M. Palmert	<u>JMIR Mhealth Uhealth. 2020 Oct 28;8(10):e22074. doi: 10.2196/22074.</u>
<i>KODA score: an updated and validated bowel preparation scale for patients undergoing small bowel capsule endoscopy</i>	Dr. M. Sey	<u>Endosc Int Open. 2020 Aug; 8(8): E1011–E1017.</u>
<i>Frailty as a predictor of outcomes in patients undergoing head and neck cancer surgery</i>	Dr. M. Sklar	<u>Laryngoscope. 2020 May;130(5):E340-E345. doi: 10.1002/lary.28222.</u>
<i>Evaluation of Pharmacy Model in a Trial of Free Essential Medicine Access</i>	Dr. N. Persaud	<u>J Prim Care Community Health. Jan-Dec 2020; 11:2150132720923938. doi: 10.1177/2150132720923938.</u>



## 2020 RESULTS OF RESEARCH

### PUBLICATIONS ON PSI-FUNDED PROJECTS (CONTINUED)

Title	Grantee	Citation
<i>Cost-effectiveness of Endoscopic Polypectomy in Clinic compared to Endoscopic Sinus Surgery: A modelling study</i>	Dr. S. Kilty	<u>Clin Otolaryngol. 2020 Jul;45(4):477-485. doi: 10.1111/coa.13533.</u>
<i>End-of-Life Skills and Professionalism for Critical Care Residents in Training: The ESPRIT Survey</i>	Dr. S. Shaikh	<u>J Intensive Care Med. 2020 Sep 10;885066620946316. doi: 10.1177/0885066620946316.</u>
<i>Defining the Digital Self: A Qualitative Study to Explore the Digital Component of Professional Identity in the Health Professions</i>	Dr. T. Chan	<u>J Med Internet Res. 2020 Sep 29;22(9):e21416. doi: 10.2196/21416.</u>
<i>Good practices in harnessing social media for scholarly discourse, knowledge translation, and education</i>	Dr. T. Chan	<u>Perspect Med Educ. 2020 Aug 20;1-10. doi: 10.1007/s40037-020-00613-0.</u>
<i>Developing ClerkCast: An Emergency Medicine Clerkship Needs Assessment Project</i>	Dr. T. Chan	<u>Cureus. 2020 Mar; 12(3): e7459.</u>
<i>The Integrated Parkinson's disease Care Network (IPCN): Qualitative evaluation of a new approach to care for Parkinson's disease</i>	Dr. T. Mestre	<u>Patient Educ Couns. 2020 Jul 8;S0738-3991(20)30353-0. doi: 10.1016/j.pec.2020.07.002.</u>
<i>Development of the User Experience (UX) and Video Quality Evaluation (VQE) Instruments for Assessment of Intraoperative Video Capture Technology</i>	Dr. T. Saun	<u>J Surg Educ. 2020 Jun 26;S1931-7204(20)30204-X. doi: 10.1016/j.jsurg.2020.06.011.</u>
<i>Cost-effectiveness analysis of MR-guided focused ultrasound thalamotomy for tremor-dominant Parkinson's disease</i>	Dr. Y. Meng	<u>J Neurosurg. 2020 Aug 7;1-6. doi: 10.3171/2020.5.JNS20692.</u>
<i>Early Radiographic Union Score for Hip Is Predictive of Femoral Neck Fracture Complications within 2 Years</i>	Dr. M. Bhandari	<u>J Orthop Trauma. 2019 Nov 22. doi: 10.1097/BOT.0000000000001713. [Epub ahead of print]</u>
<i>A novel non-invasive method to detect excessively high respiratory effort and dynamic transpulmonary driving pressure during mechanical ventilation</i>	Dr. E. Goligher	<u>Crit Care. 2019 Nov 6;23(1):346. doi: 10.1186/s13054-019-2617-0.</u>



## 2020 RESULTS OF RESEARCH

### PUBLICATIONS ON PSI-FUNDED PROJECTS (CONTINUED)

Title	Grantee	Citation
<i>Diagnosis of Pulmonary Embolism with d-Dimer Adjusted to Clinical Probability.</i>	Dr. K. de Wit	<a href="#">N Engl J Med. 2019 Nov 28;381(22):2125-2134. doi: 10.1056/NEJMoa1909159.</a>
<i>Routine identification of patients with disabilities in primary care: A mixed-methods study</i>	Dr. A. Pinto	<a href="#">Disabil Health J. 2019 Nov 26;100872. doi: 10.1016/j.dhjo.2019.100872. [Epub ahead of print]</a>
<i>Untargeted metabolomic analysis of plasma from relapsing-remitting multiple sclerosis patients reveals changes in metabolites associated with structural changes in brain</i>	Dr. R. Aviv	<a href="#">Brain Res. 2019 Dec 6;1732:146589. doi: 10.1016/j.brainres.2019.146589. [Epub ahead of print]</a>
<i>Opioid use and initiation of positive airway pressure treatment in adults referred for sleep disorder assessment: An explanatory population-based study</i>	Dr. T. Kenzerska	<a href="#">Can Respir J. 2019; Dec 9 [Epub ahead of print].</a>
<i>Risk factors, costs and complications of delayed hospital discharge from internal medicine wards at a Canadian academic medical centre: retrospective cohort study</i>	Dr. A. Bai	<a href="#">BMC Health Serv Res. 2019 Dec 4;19(1):935. doi: 10.1186/s12913-019-4760-3.</a>
<i>Using bioimpedance analysis to assess intensive care unit patients with sepsis in the post-resuscitation period: a prospective multicentre observational study</i>	Dr. B. Rochweg	<a href="#">Can J Anaesth. 2019 Dec 20. doi: 10.1007/s12630-019-01557-8. [Epub ahead of print]</a>
<i>Seizure Detection Algorithms in Critically Ill Children: A Comparative Evaluation</i>	Dr. C. Hahn	<a href="#">Crit Care Med. 2019 Dec 24. doi: 10.1097/CCM.0000000000004180. [Epub ahead of print]</a>
<i>Neighborhood Income and Cesarean Section Rates at a Tertiary Care Center in Canada.</i>	Dr. I. Chen	<a href="#">J Womens Health (Larchmt). 2019 Dec;28(12):1721-1726. doi: 10.1089/jwh.2018.6971. Epub 2019 Feb 7.</a>
<i>Effect of bilateral scalp nerve blocks on postoperative pain and discharge times in patients undergoing supratentorial craniotomy and general anesthesia: a randomized-controlled trial.</i>	Dr. A. Rigamonti	<a href="#">Can J Anaesth. 2019 Dec 26. doi: 10.1007/s12630-019-01558-7. [Epub ahead of print]</a>



## 2020 RESULTS OF RESEARCH

### PUBLICATIONS ON PSI-FUNDED PROJECTS (CONTINUED)

Title	Grantee	Citation
<i>Does the Neurological Examination Correlate with Patient-Perceived Outcomes in Degenerative Cervical Myelopathy?</i>	Dr. N. Duggal	<a href="#">World Neurosurg. 2019 Dec;132:e885-e890. doi: 10.1016/j.wneu.2019.07.195. Epub 2019 Aug 2.</a>
<i>Significantly greater prevalence of DICER1 alterations in uterine embryonal rhabdomyosarcoma compared to adenosarcoma.</i>	Dr. J. Yoon	<a href="#">Mod Pathol. 2020 Jan 3. doi: 10.1038/s41379-019-0436-0. [Epub ahead of print]</a>
<i>Comparison of the effects of perineural or intravenous dexamethasone on low volume interscalene brachial plexus block: a randomised equivalence trial</i>	Dr. P. McHardy	<a href="#">Br J Anaesth. 2020 Jan;124(1):84-91. doi: 10.1016/j.bja.2019.08.025. Epub 2019 Oct 5.</a>
<i>Thirty-day readmission after medical-surgical hospitalization for people who experience imprisonment in Ontario, Canada: A retrospective cohort study</i>	Dr. F. Kouyoumdjian	<a href="#">PLoS One. 2020 Jan 10;15(1):e0227588. doi: 10.1371/journal.pone.0227588. eCollection 2020.</a>
<i>Validity of the Comprehensive High-Level Activity Mobility Predictor in a heterogeneous population with lower extremity amputations</i>	Dr. A. Anton	<a href="#">Prosthet Orthot Int. 2020 Jan 16:309364619887559. doi: 10.1177/0309364619887559. [Epub ahead of print]</a>
<i>Role of primary care enrolment in advanced cervical cancer diagnosis: a population-based case-control study.</i>	Dr. L. Bernard	<a href="#">Int J Gynecol Cancer. 2020 Jan;30(1):29-34. doi: 10.1136/ijgc-2019-000713. Epub 2019 Nov 27.</a>
<i>Surgical Outcomes for Transgender Men Undergoing Hysterectomy</i>	Dr. I. Chen	<a href="#">J Obstet Gynaecol Can. 2020 Jan;42(1):25-30. doi: 10.1016/j.jogc.2019.05.009. Epub 2019 Oct 31.</a>
<i>Understanding helping behaviors in an interprofessional surgical team: How do members engage?</i>	Dr. C. Watling	<a href="#">Am J Surg. 2020 Feb;219(2):372-378. doi: 10.1016/j.amjsurg.2019.12.014. Epub 2019 Dec 17.</a>
<i>Effect of ulnar angulation and soft tissue sectioning on radial head stability in anterior Monteggia injuries: an in vitro biomechanical study</i>	Dr. A. Badre	<a href="#">J Shoulder Elbow Surg. 2020 Feb 7. pii: S1058-2746(19)30755-4. doi: 10.1016/j.jse.2019.10.025. [Epub ahead of print]</a>



## 2020 RESULTS OF RESEARCH

### PUBLICATIONS ON PSI-FUNDED PROJECTS (CONTINUED)

Title	Grantee	Citation
<i>Reduced Global Efficiency and Random Network Features in Patients with Relapsing-Remitting Multiple Sclerosis with Cognitive Impairment.</i>	Dr. R. Aviv	<u><a href="#">AJNR Am J Neuroradiol. 2020 Feb 20. doi: 10.3174/ajnr.A6435. [Epub ahead of print]</a></u>
<i>Axon Degeneration Is Rescued with Human Umbilical Cord Perivascular Cells: A Potential Candidate for Neuroprotection After Traumatic Brain Injury</i>	Dr. A. Baker	<u><a href="#">Stem Cells Dev. 2020 Feb 15;29(4):198-211. doi: 10.1089/scd.2019.0135. Epub 2019 Dec 10.</a></u>
<i>Incidence of intracranial bleeding in seniors presenting to the emergency department after a fall: A systematic review</i>	Dr. K. de Wit	<u><a href="#">Injury. 2020 Feb;51(2):157-163. doi: 10.1016/j.injury.2019.12.036. Epub 2019 Dec 26.</a></u>
<i>Ability of a single negative ultrasound to rule out deep vein thrombosis in pregnant women: A systematic review and meta-analysis.</i>	Dr. K. de Wit	<u><a href="#">J Thromb Haemost. 2020 Feb;18(2):373-380. doi: 10.1111/jth.14650. Epub 2019 Oct 16.</a></u>





# 2020 FINANCIAL REPORT

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## OVERVIEW

- Original investment by the doctors of Ontario: \$16.7 million in 1970
- Net Assets (Total assets less liabilities and grants payable, i.e. equity) at December 31, 2020 was \$108.4 million (2019 - \$106.5 million)
- Increase in Net Assets over prior year \$1.9 million (2019 – increase of \$10 million)
- Total rate of return achieved on investments was approximately 8.7% consisting of dividends, interest and realized and unrealized capital gains/losses (2019 – 18.2%)
- Grants and Program Activity approved in 2020: \$5.07 million (net refunds) (2019 - \$6.53 million)
- Total grants paid since inception: \$149.9 million
- Future grant commitments at 2020 year-end: \$9.6 million, with \$5.4 million payable in 2021, \$1.9 million payable in 2022, \$2.3 million payable thereafter (2019 - \$9.7 million)
- Operating costs including investment management fees: \$1.28 million (2019 - \$1.37 million), year over year decrease is due primarily to postponing in person events due to the COVID-19 pandemic
- Operating costs as a percentage of assets under management: 1.1% (2019 – 1.17%)

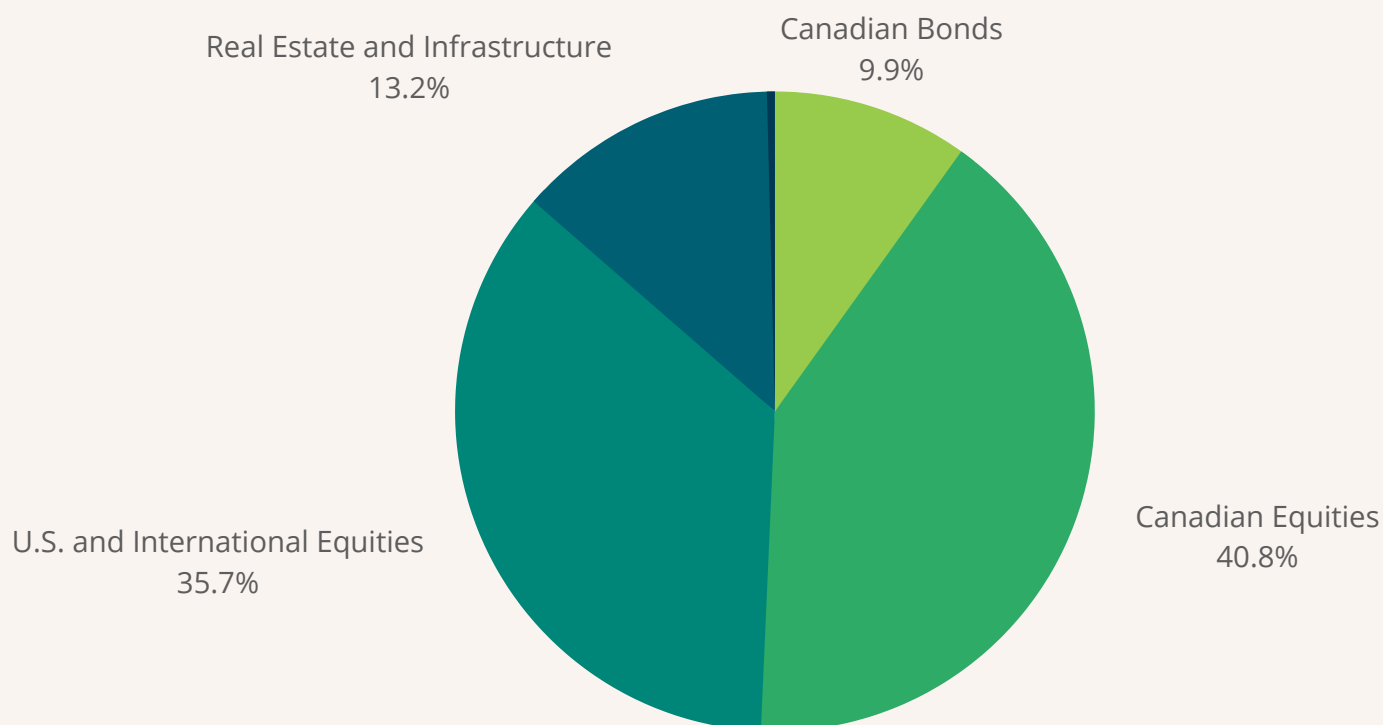


## 2020 FINANCIAL REPORT

### ASSET ALLOCATION AT YEAR END

	2020	2019
Canadian bonds	9.9%	7.5%
Canadian equities	40.8%	48.5%
U.S. and International equities	35.7%	30.9%
Real estate and infrastructure	13.2%	11.2%
Cash	0.4%	1.9%
	100%	100%

### DISTRIBUTION OF ASSETS AT MARKET VALUE





# 2020 FINANCIAL REPORT

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## 2020 IN DETAIL

The COVID-19 pandemic dominated 2020, and for PSI it was no different. We are pleased to report that PSI's Finance Committee and Board of Directors held true to our investment principles and beliefs, allowing the Foundation to weather the financial markets uncertainty and volatility to end the year in a strong financial position. In 2020, we continued with a diversified mix of equities, fixed income, real estate and infrastructure investments.

The Finance Committee continues to monitor PSI's asset allocation carefully and ensure the Board of Directors is aware of this allocation's risk profile. Management ensures PSI's cash flow requirements are included in the asset allocation, as PSI draws operating funds from the fixed income portfolio.

The COVID-19 pandemic affected PSI operating budget, with several expense lines coming in less than plan. Specifically, PSI held less in-person meetings, hosted the 2020 Annual General Meeting and Research Symposium fully remote, and postponed hosting the Health Research Alliance meeting.

At the request of the Grants Committee, the 2020 Grants and Program Activity budget totaled \$5.7 million, an increase of \$500,000 over the 2019 budget of \$5.2 million. The Grants Committee was able to meet its granting objectives within budget, while funding a special COVID-19 grants competition.

Mr. John Sharp retired as Finance Committee Chair and Board of Directors in March 2020. He joined the Committee and Board of Directors in 2010 and became the Finance Committee's Chair in 2013. PSI thanks John for his informed and steady leadership.

PSI would like to acknowledge and thank all members of the Finance Committee: Paul Richardson – Chair, Giselle Bodkin – Vice Chair, John Eby, Andrea Horan, Jim McGill, and Dr. Robert McMurtry, as well as Drs. William Hemens and Robin Walker, PSI President and Vice President, respectively.



# 2020 FINANCIAL REPORT

## FINANCIAL SUMMARY

### THE PHYSICIANS' SERVICES INCORPORATED FOUNDATION

#### FINANCIAL SUMMARY

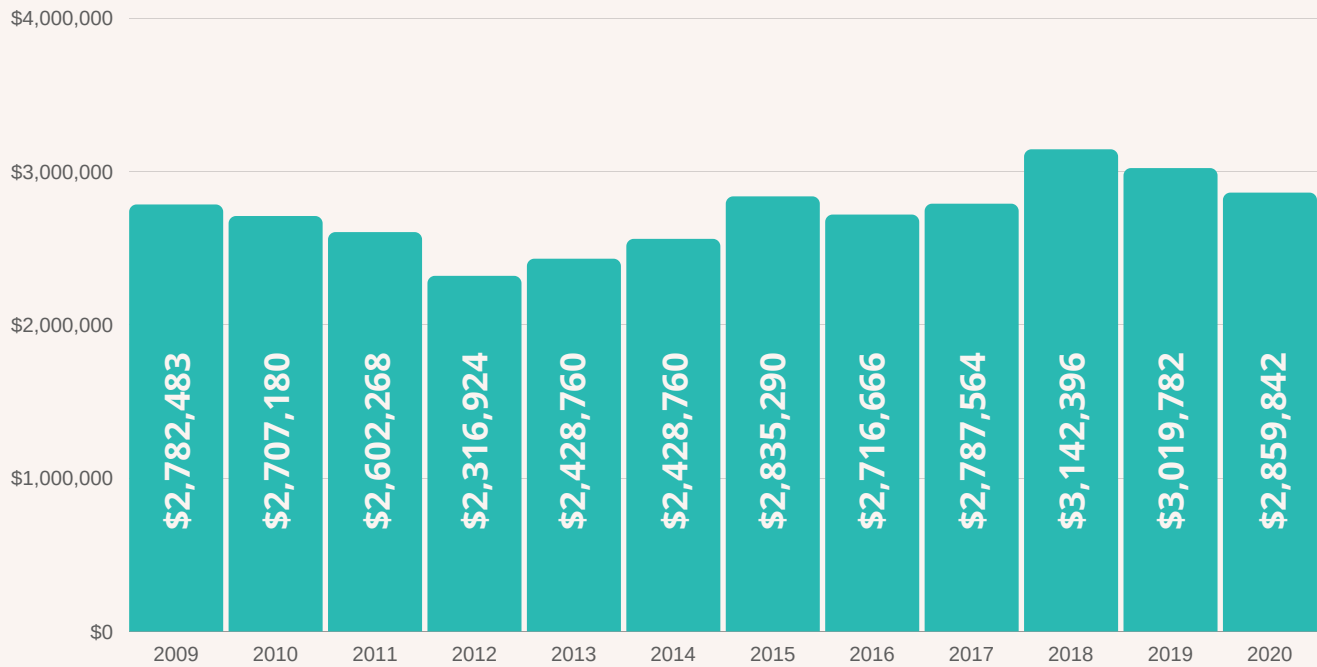
1971 - 2020

Donated Capital		\$ 16,693,123
Plus Capital appreciation	\$ 144,486,144	
Revenue earned	<u>136,856,644</u>	<u>281,342,788</u>
		298,035,911
Less: Charitable contributions	\$ 151,836,458	
Pension Adjustment	374,924	
Investment & administrative expense	<u>37,389,131</u>	<u>189,600,513</u>
		<b>108,435,398</b>
Net assets, December 31, 2020		108,435,398
Less: Net assets, December 31, 2019		106,538,593
Pention adjusting December. 2020		-
Increase/(Decrease) for year		<u><b>\$ 1,896,805</b></u>
Consisting of:		
Deficit for year		- 3,087,572
Capital appreciation on investments		<u>4,984,377</u>
		<u><b>\$ 1,896,805</b></u>

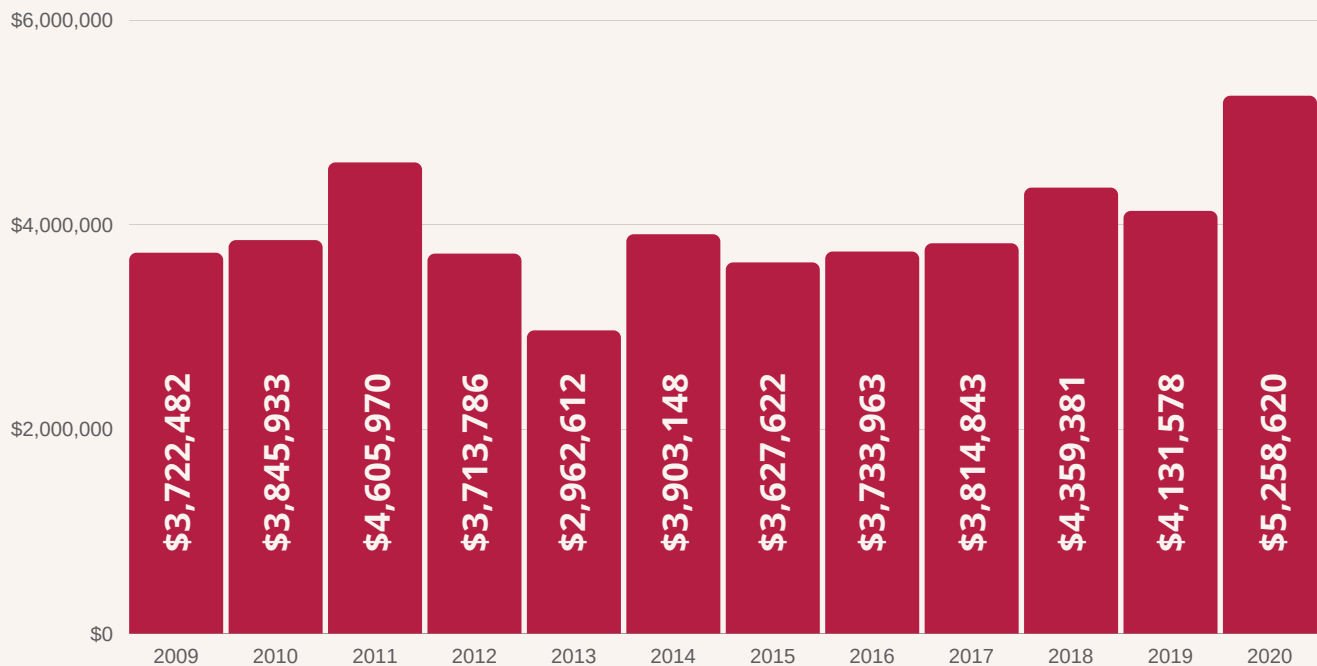


# 2020 FINANCIAL REPORT

## REVENUE 2009 - 2020



## GRANTS PAID NET OF REFUNDS 2009 - 2020



# VISION STATEMENT

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## **Background**

When the Foundation was established in 1970 it was agreed that it should primarily be a granting agency rather than an operating agency and it continues to be managed by the physicians of Ontario. It was mandated by the Board of the new foundation, and the participating physicians, that the Foundation's prime objective should be the provision of funds solely within the health field. To meet this mandate the Board of the new Foundation agreed that a diversified portfolio should be held consisting of equities and income-producing securities to permit a consistent level of granting.

## **The Vision**

The Foundation seeks to build upon its unique situation in the health research community, as a physician sponsored granting agency, and is based on the belief that continued support of peer reviewed, innovative research, will bring new and improved benefits to clinical practice. The vision of the Foundation is to seek to address the unparalleled challenges that will face physicians in providing effective health care for their patients in the years to come. The essential supporting structure of this vision is to encourage the research efforts of the new investigator, as well as providing funding for the education of practising physicians.



# **Research & Education Funded by the Physicians of Ontario**

