

William Osler Health System Osler Research Institute for Health Innovation

MedTech Task Force

November 7, 2024

*Dr. Greg Rutledge, Chief of Staff
and Executive Vice President, Medical & Academic Affairs*

*Tiziana Rivera, Executive Vice President of Quality, Research
and Chief Nursing Executive*





Dr. Greg Rutledge

- Chief of Staff and Executive Vice President, Medical and Academic Affairs
- Regional Lead of Emergency Medicine at Ontario Health West
- Former Emergency Medicine Program Director at McMaster University and Chief of Emergency Medicine at St. Joseph's Healthcare in Hamilton
- Medical Director for the Toronto Marlies and Emergency Physician for the Toronto Maple Leafs



Tiziana Rivera

- Executive Vice President, Quality, Research and Chief Nursing Executive
- Adjunct Professor, Daphne Cockwell School of Nursing, Toronto Metropolitan University
- Award of Excellence in Nursing Leadership recipient from Ontario Hospital Association
- Supporting international adoption of best practices with the Registered Nurses' Association of Ontario
- Surveyor, Accreditation Canada

Growing Community, Growing Needs

1.3M+ residents

Fast-growing, high-density
population

At least 63% visible minorities

Seniors population will double over
the next 20 years

Greater proportion of medically-
complex patients

One of the highest rates of diabetes
in Ontario



 **Brampton Civic**
 **Peel Memorial**
 **Etobicoke General**
 **Withdrawal Management Centre**
 **Reactivation Care Centre**



Osler's Sites



Brampton Civic Hospital



Etobicoke General Hospital



Peel Memorial Centre for
Integrated Health and
Wellness



Reactivation Care Unit



Withdrawal Management Centre

Osler By the Numbers 2023-24



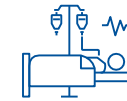
1,151,329
Patient Visits



300,962
Emergency and
Urgent Care Visits



560,777
Outpatient Clinic
Visits



52,592
Inpatients



7,953
Births



4,604
Cancer Surgeries



577,871
Diagnostic Images



72,108
Surgeries



7,154
Staff



1,108
Physicians



1,572
Learners



1,100
Volunteers

Osler is one of
the **busiest**
community
hospitals in
Canada

Going Beyond

Strategic Plan
2024-2029

for our people and communities

OSLER'S VISION

World-class health care inspired by our people and communities

OSLER'S MISSION

Innovative health care delivered with compassion

OSLER'S VALUES

- Respect
- Excellence
- Service
- Compassion
- Innovation
- Collaboration

OSLER'S PROMISE

Going beyond



< Scan to learn more



Strategic Directions

People & Culture

Inspiring a sense of belonging that supports people to be their best and do their best

Quality Excellence

Relentlessly pursuing world-class, high-quality health care

Health System Leadership

Leading and partnering to transform the health system for Osler's communities and beyond

Organizational Effectiveness

Optimizing resources to provide effective health care for the communities we serve

Research & Academics

Developing the health care providers and researchers of tomorrow



Strategic Foundations



Equity, Diversity & Inclusion



Innovation & Collaboration



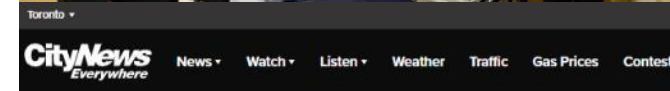
Infrastructure & Technology



Financial Stewardship

System Leadership and Firsts

- Endovascular Therapeutics Suite
- Cardiology Program including ICD implantation
- Multiple advanced surgical techniques
 - Robot-assisted knee replacement
 - Intellijoint HIP
 - MOLLI 2 System
- Repetitive Transcranial Magnetic Stimulation
- Hospital-based Paediatric Diabetes Education Centre
- Butterfly Approach to Dementia Care
- Cancer care
 - Most oncology clinical trials of any community hospital
 - Designated Centre of Integrated Oncology and Palliative Care
 - Next Generation Sequencing
 - In-house liquid biopsy for cancer testing



CityNews
GTA HOSPITAL FIRST IN CANADA TO OFFER CRITICAL CANCER TOOL

Innovation in Action


Conference Report

Barriers and Unequal Access to Timely Molecular Testing Results: Addressing the Inequities in Cancer Care Delays across Canada

Stephanie Snow¹, Christine Brezden-Masley², Michael D. Carter³, Neesha Dhani⁴, Cassandra Macaulay⁵, Ravi Ramjeesingh¹, Michael J. Raphael⁶, Monika Slovynec D'Angelo⁵ and Filomena Servidio-Italiano^{5,*}

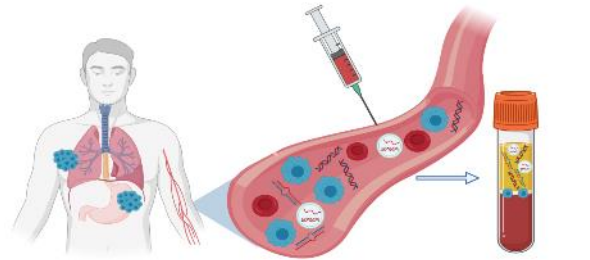
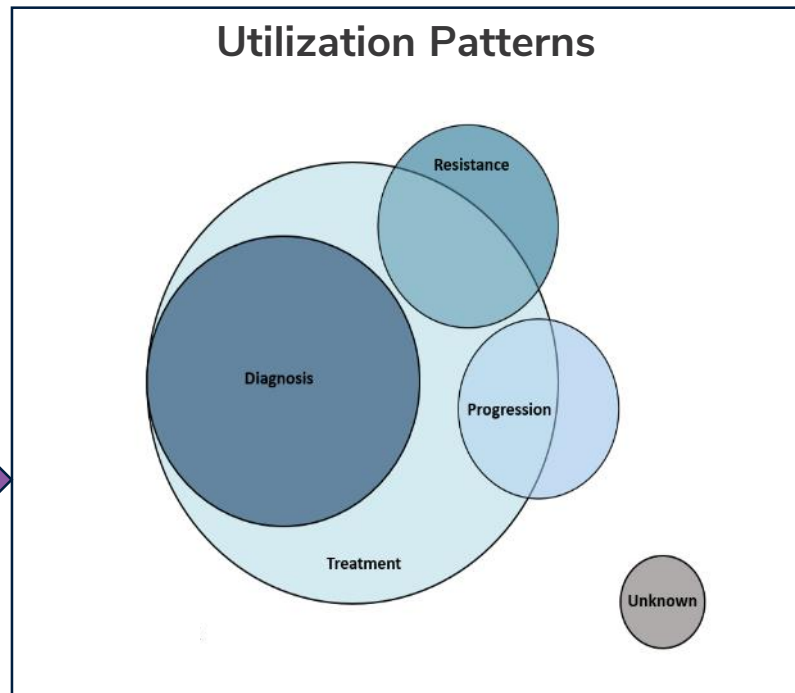
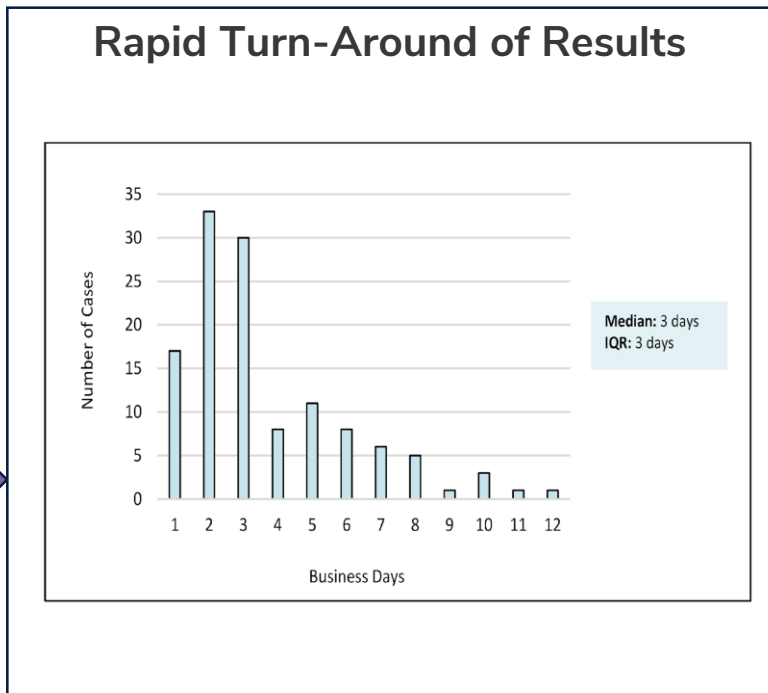
Point of Care Liquid Biopsy in Cancer Care

Invasive Biopsy



Bone marrow biopsy Excisional biopsy Sentinel node biopsy Needle biopsy

Liquid Biopsy

Medical Education at Osler

- As a community teaching hospital, Osler is a site of learning for medical students, residents and fellows enrolled in a Canadian medical school
- A unique three school affiliation model: Toronto Metropolitan University, McMaster, University of Toronto
- Success elements include: engaged staff, tremendous clinical teaching opportunities, diverse patient and provider populations
- Exponential (9x) rise in medical trainee days anticipated over next five years



Medical Education Ecosystem and Innovation

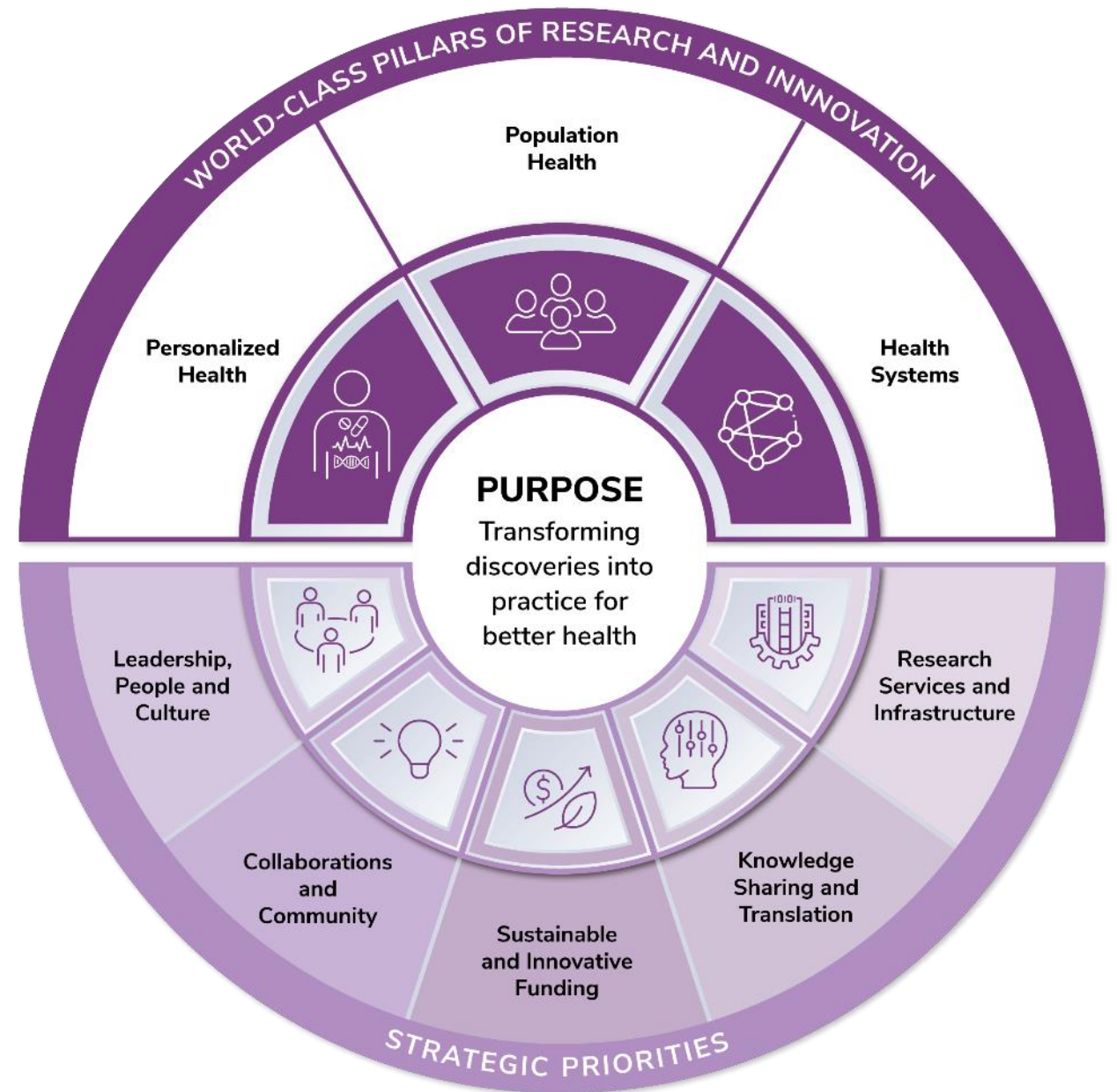
- Talent pipeline for local healthcare and life sciences
- Recruitment of academic physicians, clinician-scientists into Brampton, supported by medical learners
- Enhanced platform for community partnerships, research and industry collaborations
- Deepen the culture of inquiry
- Presence of more medical learners will enhance Brampton's reputation as a life sciences hub and foster synergies with University innovation centres



Osler Research Institute for Health Innovation (ORIH) Strategy-At-A-Glance



Osler Research Institute
FOR HEALTH INNOVATION



ORIH By The Numbers

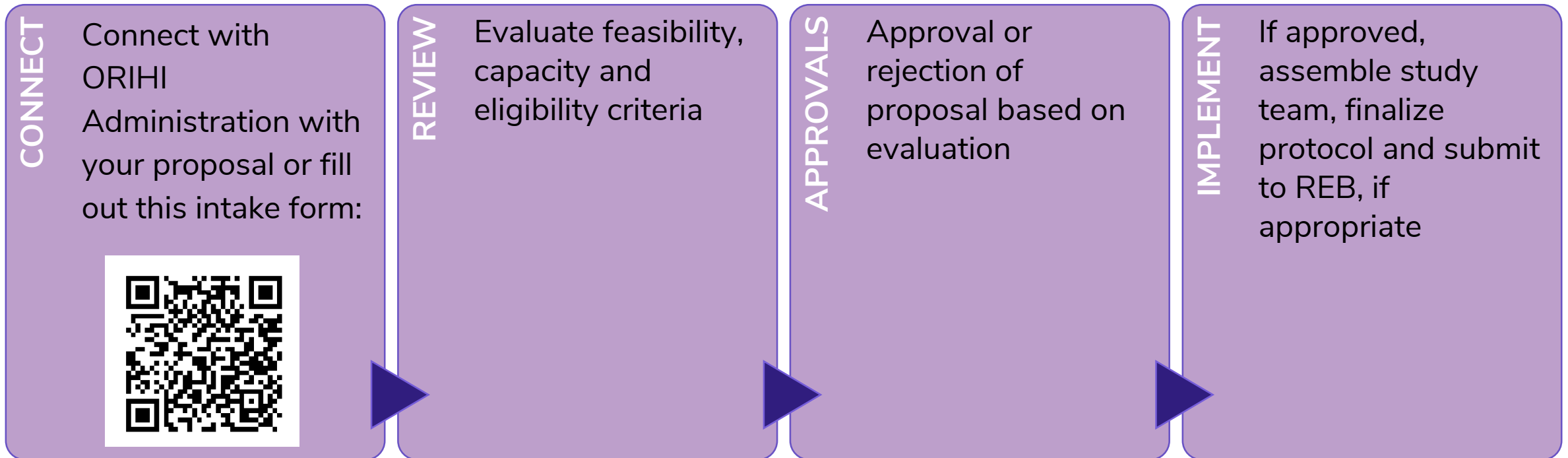


Osler Research Institute
FOR HEALTH INNOVATION

FY2023-2024	OVER THE LAST DECADE
76 Clinical Trials	591 Publications
1,150 Subjects Enrolled In Studies	252 Conference Abstracts
34 Full Time Staff	>50 Programs Areas Conducted Research
TOP 5 RESEARCH PROGRAMS	537 Studies
<ol style="list-style-type: none"> 1. Oncology 2. Infectious Disease 3. Cardiology 4. Hepatology 5. Ophthalmology 6. Pediatrics 	259 Individuals have lead research projects

How Can ORIHl Contribute to the Innovation Ecosystem ?

Partnership Pathway



Requirements & Considerations

Requirements for device or drug studies at ORIH as laid out in Health Canada Division 5 Regulations.

Minimum requirements are as follows:

- **Device** - Investigational Testing Authorization (ITA) from Health Canada
- **Drug** - No Objection Letter (NOL) from Health Canada

Requirements of Study Teams:

- Require an Osler staff or physician to be a Principal Investigator
- Require all study staff to have their TCPS2, GCP and Health Canada Division 5 certifications

Types of Studies ORIH conducts:

- Clinical Trials Phase 2,3,4 (No Phase 1, pre-clinical studies or animal studies at this time)
- AI/machine learning studies
- Qualitative Studies



ORIH Service Offerings

Pay-for-Use





- Research Study Staff
 - Protocol development and consent forms
 - Recruitment and participant consent
 - Data collection
 - Study specific assessments
 - Coordinate clinical research
 - Timelines and budgets
- Research Ethics Board
 - Pre-Consultation
 - Application
 - Delegated and Full Board Review
- Laboratory and Diagnostic Services

Additional offerings at no charge

- Identifying an Osler Principal Investigator
- Consultation or working with ORIH Community-Based Research Advisory Committee – access to community voices and perspectives



Celebrate Research Week – November 18-22

Milestone Moments	Unique Moments		
<p>Official launch of Osler Research Institute for Health Innovation (ORIH)</p> <p>Release of ORIH Strategic Plan 2025-2030</p> <p>City-wide proclamation of Celebrate Research Week</p>	<p>ORIH Banner Reveals across Osler's sites</p>  <p>Osler Research Institute FOR HEALTH INNOVATION</p>	<p>Art/Science Exhibit: Daniela Brill Estrada's "Our Celestial Bodies" and local Brampton artists</p> 	<p>TMU Immersive Experience of the School of Medicine</p> 
<p>Full Agenda:</p> 	<p>Keynote: Dr. Parneet Cheema, Head of Cancer Research, Osler</p> <p>Panel: Health Systems Transformation at City Hall Conservatory</p>	<p>Keynote: Equitable Healthcare for Diverse Communities</p> <p>Community Research Fair and Networking Event at City Hall Conservatory</p>	<p>Panel: How Technology is Advancing Health Research</p>

Celebrate Research Week Schedule

Date	November 18	November 19	November 20	November 21	November 22
Theme	Celebration Day	Partnership Day	Health Systems Transformation Day	Innovation and Technology Day	Community Health, Wellbeing & Education Day
Location	Brampton Civic Hospital	Etobicoke General Hospital	Peel Memorial Centre for Integrated Health and Wellness	Brampton Civic Hospital	Brampton Civic Hospital
ORIH Banner Reveal	10:00 a.m.	2:00 p.m.	10:00 a.m.		
Keynote speaker and panels	10:45 a.m. Dr Parneet Cheema Head of Cancer Research	2:30 p.m. Dr Sergio Borgi Infectious Disease Specialist	10:30 a.m. Panel: Dr. Martin Chasen, Dr. Marco lafolla, Tiziana Rivera moderated by Rishika Thakur, Central West Ontario Health Team	10:00 a.m. Panel Discussion moderated by Dr. Hina Marsonia, Pharmacist 2:00 p.m. Panel Discussion hosted by Brampton Venture Zone and Altitude Accelerator	10:00 a.m. Keynote: Leah Stephenson, All.CAN Strategic Lead 12:00 p.m. Dr. Teresa Chan, Dean, Toronto Metropolitan University School of Medicine
Research Open House	12:00-1:30 p.m.	12:00-1:30 p.m.	12:00-1:30 p.m.		
Community		Community Research Fair @ City Hall	Panel "Health Systems Transformation" @ City Hall		



**Thank you
Questions and Discussion**

