

ANNUAL REPORT 2015-16



40
YEARS
ANS



UNIVERSITY OF OTTAWA
HEART INSTITUTE
INSTITUT DE CARDIOLOGIE
DE L'UNIVERSITÉ D'OTTAWA



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MESSAGE FROM OUR LEADERS



It has already been one year since the launch of our [Strategic Plan: Stronger Together](#). This comprehensive plan is meant to guide us for the next few years. And we are pleased to report that Year 1 has been rigorous, intense, but highly successful.

Over the last year, we have focused our energy on laying a foundation for this plan, doing so literally as we also poured the slabs of concrete for the foundation of our new expansion.

Significant projects have been achieved over the last year, including the formation and launch of three Heart Teams, investments in high-impact, technology-driven projects such as myOttawaHeart, advancing further the [ORACLE](#) research plan, and a new website and intranet. This has been made possible thanks to the unwavering support of our teams, our donors and the members of our community, but also our valuable partners including the University of Ottawa, The Ottawa Hospital, the Champlain LHIN, and the Government of Ontario.

Throughout this year-long journey, we have made great achievements by continually ensuring that our patients come first. They are, and will always remain, at the core of everything that we do.

2016 marks our [40th anniversary](#). This represents a significant milestone that we will celebrate all year as we prepare for another 40 years of outstanding patient care, transformative research, and impactful training.

We want to sincerely thank you for your support, and we invite you to join us in this new chapter as we continue to shine, innovate, and deliver world-class care.

[Thierry Mesana](#), MD, PhD, FRCS(C)
President and CEO

[Lawrence Soloway](#)
Chair, Board of Directors

PARTNERING IN THE DELIVERY OF
OUTSTANDING CLINICAL SERVICES



OUR BOARD OF DIRECTORS

The Heart Institute governance structure is unique and provides solid ground to promote organizational development.

Its commitment to the measurement of outcomes and its steady engagement in our pursuit of excellence across all areas have helped us reach new heights.

ELECTED MEMBERS

Lawrence Soloway

Elected Director, Chairman of the Board

Paul LaBarge

Elected Director, Vice-Chairman of the Board

Donald Bayne

Elected Director

Latifa Belmahdi

Elected Director, Chair, French Language Committee

Graham Bird

Elected Director
Chair, Redevelopment Committee

Sylvain Chalut

Elected Director

Robert Cushman

Elected Director

Graham Fox

Elected Director
Chair, Communications Committee

Richard L'Abbé

Elected Director

Tom Manley

Elected Director, Chair, Joint Finance & Audit Committee (UOHI/OHIRC)

Lori O'Neill

Elected Director

Alan Rottenberg

Elected Director

HONOURARY ASSOCIATE

Donald S. Beanlands

Honourary Associate

EX-OFFICIO MEMBERS

Katherine Cotton

Vice-Chair
The Ottawa Hospital Board of Governors

Jacques Edmond

Chair
UOHI Foundation

Robert Giroux

Chair, Board of Governors
University of Ottawa

Bernard Jasmin

Vice-Dean, Research, Faculty of Medicine
University of Ottawa

Coralie Lalonde

Chair, OHIRC Board of Directors
Quality Committee

Stéphane Lambert

President
Medical and Scientific Staff

Thierry Mesana

President and CEO

James McCracken

Chair
The Ottawa Hospital Board of Governors

Mona Nemer

Vice President, Research
University of Ottawa

Heather Sherrard

Executive Vice President Clinical Operations
Chief Nursing Officer

Jeffrey Turnbull

Chief of Medical Staff
The Ottawa Hospital

WHO WE ARE



VISION

To be a world-class, patient-centred Heart Institute in Canada.

MISSION

Inspired by a unique culture of excellence and innovation, we promote heart health and lead in patient care, research and education.

VALUES

PATIENTS COME FIRST

By relentlessly demonstrating a strong commitment to world-class care and health promotion, our team creates a unique environment for our patients and their families, exceeding their expectations and offering the best care through integrated clinical practice, education and research in a bilingual setting.

TEAM WORK

We build and foster interdisciplinary teams with blended skills that work well together, and improve outcomes and efficiency, while recognizing the contributions of all.

EXCELLENCE

We are committed to uncompromised excellence, which means believing in the power of innovation, achieving the highest standards by continually measuring quality, seeing change as opportunity, and being a resource to influence health care, education and research beyond our borders.

INTEGRITY

We are committed to transparency, adhering to the highest moral principles and standards of professionalism, making our institution accountable and worthy of trust.

PARTNERING

Guided by openness and good communication, we build solid collaborations with other health care facilities, research institutions, universities, regional stakeholders, industry and government in Canada and abroad.

OUR INSTITUTE BY THE NUMBERS *

1,348 staff

114,926 patient visits

59,875 diagnostic tests

1,613 complex cardiac surgical interventions

11,384 non-surgical interventions

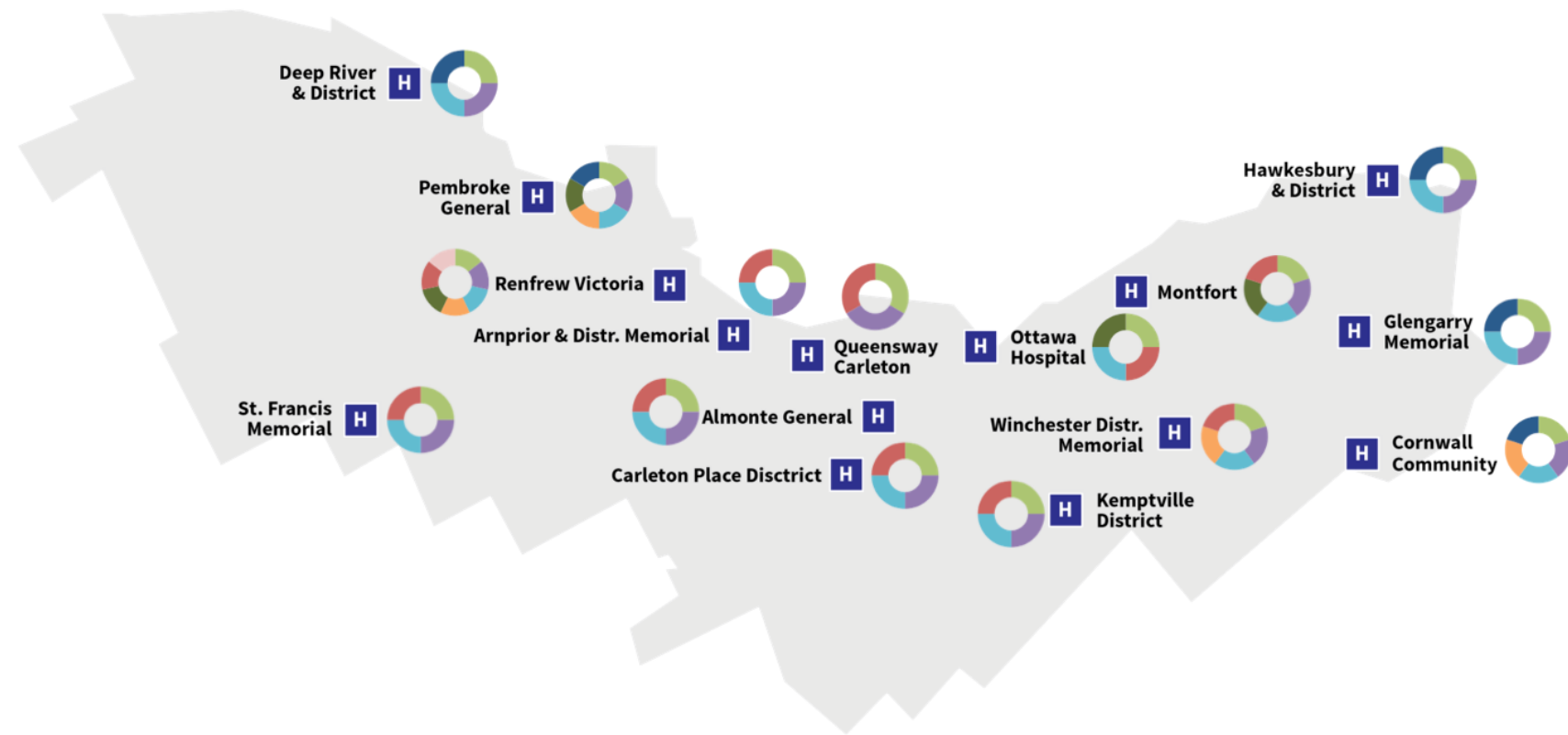
1,251 pacemaker and defibrillator implantations

\$12.8 million awarded in peer reviewed grants

** For a full breakdown of our procedure and diagnostic test volumes, see page 20.*

OUR HEART BEATS IN OTTAWA

For the past 40 years, the Heart Institute has cared for patients from across the Champlain region and the four corners of our country, always providing outstanding care no matter where our patients came from. In fact, our patient satisfaction speaks for itself as, survey after survey, it remains in the high nineties.



Champlain LHIN hospitals who have adopted UOHI best practices under the “Guidelines Applied In Practice” (GAP) program

● Telehome Monitoring ● IVR CHF ● IVR ACS ● EMS Remote ECHO ● Pharmaco PCI ● Primary PCI ● ACS GAP ● HF GAP



WORLD-RENOWNED VISITING PROFESSORS INCLUDING:

- **5 lecturers from the United States**, including Professor Joseph Sabik, Head of Cardiac Surgery at the Cleveland Clinic, and 2 Professors of Cardiology from Harvard Medical School
- **1 lecturer from Europe:** Professor Gilbert Habib, President of the European Society of Cardiac Imaging
- **1 lecturer from Canada:** Professor Pabhat Jha of St. Michael’s Hospital in Toronto, who gave a lecture under the guise of the Anand & Saroj Aggarwal South Asian Heart Health Endowed Lectureship

OUR VISION TOUCHES THE WORLD

Through the years, we have become an internationally recognized hub in cardiovascular research. The Heart Institute has teamed up with high-calibre scientists and clinicians studying cardiovascular disease and other related fields of health research.

Our cardiovascular disease research enterprise, comprised of extensive collaborative international activities, brings together this immense talent, maximizes the efficient use of resources and capitalizes on our multidisciplinary expertise.



- Australia
- Belgium
- Brazil
- Chile
- China
- Denmark
- Finland
- Germany
- Greece
- India
- Israel
- Korea
- Netherlands
- Romania
- South Africa
- Spain
- Sweden
- United Kingdom
- United States

40 YEARS OF EXCELLENCE

RESPECTED FOR OUR EXCELLENCE. RECOGNIZED FOR OUR CARE.

The date was May 11, 1976. The Heart Institute officially opened its doors. Over the last four decades, we have become a heart health leader, providing outstanding care to patients from across Canada and impacting the well-being of people around the world through groundbreaking research and by training the next generation of cardiovascular professionals.



“A leader in heart health around the world. A place for healing, learning, and caring”

- *The Right Honourable Justin Trudeau, Prime Minister of Canada*

“Since 1976, the Heart Institute has contributed to the high quality health care we enjoy in Ontario”

- *The Honourable Kathleen Wynne, Premier of Ontario*



STRATEGIC PLAN 2015 - 2016 YEAR 1

Strategic Direction No. 1

REINVENTING CARDIAC CARE

This year, we created and launched three Heart Teams further advancing our multidisciplinary approach of patients.

Heart Teams ensure better and faster access to care and focus on what is best for each patient by integrating the combined expertise of highly skilled healthcare professionals from various specialties. By measuring immediate and long-term outcomes and looking at results beyond the hospital walls in order to optimize the patient experience, Heart Teams will make decisions that are informed by their patients. This is the best way to deliver personalized medicine.



COMPLEX ARRHYTHMIA HEART TEAM

TRIAGE MODEL

- A virtual clinic model and algorithm to triage patients with atrial fibrillation (AF) to the appropriate provider, to improve access to care and education for patients including supports for emergency department and family physicians

HYBRID AF ABLATION MODEL

- A collaborative model combining surgical and catheter ablation of AF

STOP AFIB PROGRAM

- An AF preoperative prophylaxis protocol to reduce onset of post-op AF in surgery patients and a postoperative AF treatment algorithm to standardize care

STANDARDIZATION OF ANTI-COAGULATION

- An AF anticoagulation algorithm to standardize care and identify novel ways to increase patient compliance

EDUCATION

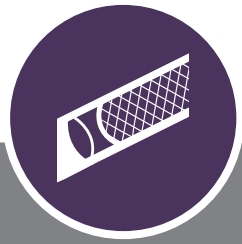
- Programs and tools for both providers and patients

RESEARCH

- A study to improve outcomes from concomitant surgical MAZE
- A study to improve outcomes from surgical stand-alone MAZE procedures
- A study to examine the utility of cardiac MRI to assess percutaneous and surgical ablation lesion sets

LONG-TERM OUTCOME FOLLOW-UP

- A model to assess outcomes of all ablation patients (percutaneous and surgical), including quality of life



COMPLEX REVASCULARIZATION HEART TEAM

TRIAGE MODEL

- A model in which a multi-disciplinary team triages patients to most appropriate patient-centred care procedure/treatment (percutaneous, surgical, medical therapy)

HYBRID CORONARY REVASCULARIZATION MODEL

- A collaborative model which combines the best advances in cardiac surgery and interventional cardiology best approached in a hybrid OR

EDUCATION

- Education programs and tools for all revascularization patients with coronary artery disease requiring intervention

RESEARCH

- A feasibility study of coronary physiology and effect of coronary revascularization in patients with diabetes mellitus and coronary artery disease

LONG-TERM OUTCOME FOLLOW-UP

- A model to assess outcomes of all coronary revascularization patients including quality of life



WOMEN'S HEART HEALTH TEAM

WOMEN@HEART

- A peer-to-peer support group for women with established heart disease who need to deal with psychosocial issues before they can consider lifestyle changes

CARDIOPREVENT

- A 12-month regional primary prevention program targeting women at medium-high risk of heart disease through primary care. Patients undergo risk factor screening, receive tailored education and programming supported by behavioural-based counselling, follow-up and referral, and community resource linkages.

VIRTUAL CARE

- An online cardiovascular health management system that provides the best practice strategies for the control and management of risk factors related to heart disease

RESEARCH - ACCESS

- A study to assess if women in the Champlain region are under-referred and if there are disparities in access and referral patterns

RESEARCH - RISK

- Early Vascular Aging in Women at Risk for Cardiovascular Disease: The EVA Study



CANADIAN WOMEN'S HEART HEALTH CENTRE

The [Canadian Women's Heart Health Centre](#) (CWHHC) draws on the expertise of the Heart Institute to build programs to improve care, raise awareness of heart disease in women and deepen knowledge through research specifically targeted to women. This year, the CWHHC held the first [Canadian Women's Heart Health Summit](#) in April 2016.

The Summit brought together local, national and international experts to plan collaborative strategies in order to reduce sex-disparities in cardiovascular disease prevention and management, with the ultimate objective of transforming and enhancing women's lives through research, awareness and policy.

CARDIOPREVENT®

- **740** Referrals
- **501** Patients

WOMEN@HEART

- **3** Training workshops and **21** trained peer leaders
- **12** Groups launched across the region and **134** patients enrolled

Strategic Direction No. 2

BUILDING UP OUR INFRASTRUCTURE

The Life Support Capital Project represents the most significant [expansion](#) in the life of the Heart Institute. With the support of the Ministry of Health and Long-Term Care and the community, more than 145,000 sq. ft. of new space will be added to our current facilities to ensure the continued provision of world-class specialized cardiac care in our region.

The superstructure for the new tower, which will house expanded procedure and patient rooms to deal with the urgent issues of cardiac patients, is now rising at a rate of a floor per month. The shell will be completed by the Fall of 2016, with final finishings taking an additional year or so. We are on track for turnover of space by January 2018 and a grand opening later that Spring.

NEW FEATURES

- More than 145,000 sq. ft. of new space
- Five operating rooms and one shelled-in operating room
- Nine catheterization/electrophysiology labs
- An additional surgical critical care unit for 27 beds
- A central registration area in the lobby
- Escalator access to upper and lower floors
- A shelled-in floor for future expansion

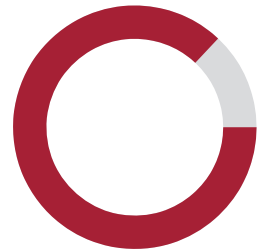


Strategic Direction No. 3

GROWING OUR INSTITUTE MODEL

HEWITT STAFF ENGAGEMENT SURVEY RESULTS

Our strategic plan is anchored in teamwork and in putting patients first. This is reflected in the most recent Hewitt survey:



RECOMMENDING THE HEART INSTITUTE

87% of employees said that given the opportunity, they would recommend the Heart Institute as a place for loved ones to be cared for and believed that patients come first.



TEAM DECISIONS

91% of staff believed that better decisions can be made by a team rather than by an individual.



STAFF ENGAGEMENT

The overall staff engagement went up by one point, from 69% to **70%**. The Institute remains at the top for staff engagement among all hospitals in Canada surveyed by Hewitt. The national average is 47%.



AT THE HEART OF PATIENT CARE

930+ Clinical staff including:

- **500+** Nursing staff
- **160+** Health professionals
- **250+** Support staff

A PASSION FOR INNOVATION AND LIFESAVING PROCEDURES

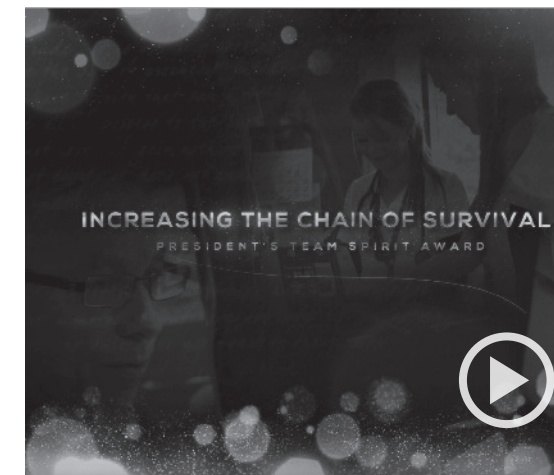
- STEMI – Pioneering heart attack program in Canada
- ROSC – A standardized, multidisciplinary regional program for patients having out-of-hospital cardiac arrests
- Advanced trans-catheter ablation of atrial fibrillation
- Heart transplantation and ventricular assist devices
- Complex valve repair – Leading program in Canada
- Canadian leader in advanced arterial conduit for surgical coronary revascularization
- Percutaneous valve replacement (TAVI) and repair (MitraClip)
- Percutaneous left atrial appendage closure to prevent stroke
- High risk percutaneous coronary intervention
- Multimodality cardiac imaging (MRI, PET, CT, 3D echo) for personalized medicine
- Canadian leader in prevention for smoking cessation and women's heart health

PRESIDENT'S TEAM SPIRIT AWARD

The President's Team Spirit Award promotes the spirit of teamwork between departments, groups and units who have come together on a project, event or initiative or ongoing collaboration. This year, the winning team is:

A Multidisciplinary Approach to the Development and Implementation of Best Practices for the Management of Cardiac Arrest Patients: Increasing the "Chain of Survival"

Out-of-hospital cardiac arrests (OOHCA) affect 40,000 Canadians annually, with 7% surviving to discharge. UOHI has worked with regional leaders and emergency personnel in the Champlain Region, to develop an evidence-based resuscitation program ensuring that every OOHCA patient is provided with state-of-the-art care. Eighteen individuals, from nurses, to dietitians, physiotherapists, occupational therapists and cardiologists took part in this great enterprise.



We recently held the 2016 Long Service Awards ceremony to recognize devoted staff members that celebrated from five to an impressive 40 years of service! (From left: [Dr. Thierry Mesana](#), [Josephine Donaldson](#) and [Dr. James Robblee](#))

MEASURING AND EVALUATING QUALITY AND OUTCOMES

The University of Ottawa Heart Institute prides itself on its quality of care and high levels of patient satisfaction. As we see more patients every year, our patient satisfaction ratings remain among the very best in Ontario.

PATIENT SATISFACTION



EXPANDING OUR CLINICAL SERVICES

PROCEDURE AND DIAGNOSTIC TEST VOLUMES

PROCEDURE	2013-14	2014-15	2015-16
Coronary Artery Bypass Grafts (CABG) & Other	719	792	833
Valve/CABG (combined)	226	227	223
Valve Surgery	518	543	516
Transplants	29	26	29
Ventricular Assist Devices	9	15	12
Total Surgical Procedures	1,501	1,603	1,613
Catheterizations	6,043	6,030	6,415
PCI (Angioplasty)	2,606	2,541	2,518
Electrophysiology Studies	574	517	505
Ablations	588	585	578
Pacemakers	631	659	791
Defibrillators	443	430	460
TAVIs (Percutaneous valve replacement)	68	97	92
Mitraclip (Unfunded procedure)	20	25	25
Total Non-Surgical Interventions	10,973	10,884	11,384
Total Diagnostic Tests	50,253	51,020	59,875



CARING IN BOTH OFFICIAL LANGUAGES

As a public service agency designated by the Ministry of Health and Long-Term Care, under the French Language Services Act, the Heart Institute must guarantee access to quality services in French for designated services on a permanent basis, including:

- Permanence and quality of services
- Guaranteed access to services
- Adequate representation of Francophones
- Responsibility for French language services (Accountability)

Every three years, designated agencies must show how they have maintained this level of service. In June 2016, the Heart Institute has submitted a report to the Ministry, detailing how this was achieved. In addition, an annual report was submitted to local networks and internal committees.

PUTTING PATIENTS FIRST WITH MYOTTAWAHEART.CA

The new **myOttawaHeart** patient portal, to be launched in 2016, is a secure online information system that enables patients to access their personal health information and use educational information, resources and tools to support self-care from home or anywhere else. The platform can also be shared with caregivers and physicians.

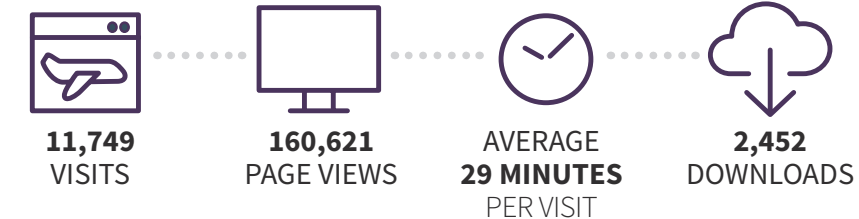


SHARING OUR STORY

NEW WEBSITE (JANUARY 1 TO MARCH 31, 2016)



HEARTHUB (6 MONTHS SINCE LAUNCH)



SOCIAL MEDIA



NEW WEBSITE

The new website was launched in early January 2016. New and updated information throughout, a simplified structure and a fresh new look all make the site an excellent place to learn about heart disease, cardiovascular care, research and education, and the Heart Institute itself. Importantly, the site is now mobile-friendly and complies with accessibility guidelines.



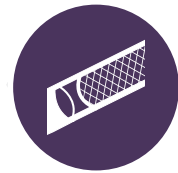
THE HEART HUB

The Heart Hub, our new and revamped intranet, was launched in September 2015.

It is the go-to place for staff to access up-to-date, timely information and resources at the Institute.

ENHANCING OUR GLOBAL RESEARCH IMPACT

ALIGNING OTTAWA REGION FOR ADVANCED CARDIOVASCULAR RESEARCH EXCELLENCE (ORACLE) INNOVATION CLUSTERS WITH HEART TEAMS



HEART FAILURE CLUSTER ► THE WOMEN'S HEART HEALTH TEAM

Heart Failure: Led by [Dr. Lisa Mielniczuk](#) and co-led by Dr. Balwant Tuana (University of Ottawa)

The incidence and prevalence of heart failure (HF) are on the rise, remains one of the most common reasons for hospital admission and is associated with significant morbidity and mortality. This Cluster is engaged in generating knowledge to better understand, manage, prevent and treat HF.



ATRIAL FIBRILLATION CLUSTER ► COMPLEX ARRHYTHMIA HEART TEAM

Atrial Fibrillation: Led by [Dr. David Birnie](#)

Atrial fibrillation is a growing epidemic and this Cluster aims to address many knowledge gaps including: early intervention in the disease process and prevention and how to direct individual tailored therapy for patients with established disease.



THE CARDIOVASCULAR PERCUTANEOUS INTERVENTION TRIAL (CAPITAL) CLUSTER AND THE PERSONALIZED INNOVATIVE PERI/OPERATIVE CARE AND LONG-TERM OUTCOMES RESEARCH (PINNACLE) CLUSTER ► COMPLEX REVASCULARIZATION HEART TEAM

Cardiovascular Percutaneous Intervention Trial (CAPITAL): Led by [Dr. Derek So](#)

The practice of interventional cardiology has evolved beyond a procedural specialty isolated to coronary disease. Accordingly, it is integral to form a network of researchers with common goals in improving outcomes among patients undergoing interventional procedures.

Personalized INNovative peri/operAtive Care and Long-Term outcomes rEsearch (PINNACLE): Led by [Dr. Marc Ruel](#) and co-led by [Drs. Munir Boodhwani](#), [David Glineur](#), [Bernard McDonald](#), [Louise Sun](#) and [Diem Tran](#)

This Cluster is dedicated to supporting personalized innovative perioperative and surgical care in order for the Heart Institute to maintain its cardiac surgical and anesthesia innovation leadership, build upon its research tradition, and address important knowledge gaps.

RESEARCH BY THE NUMBERS

- **250** research staff, including **69** scientists and clinician investigators
- **\$12.8 million** awarded in peer reviewed grants
- **246** published research articles including 32% with international collaborations
- Over **100** international speaking engagements
- **7** cutting-edge core facilities, including the Ruddy Canadian Cardiovascular Genetics Centre
- Hosted **3** international conferences, including the Ottawa Heart Research Conference, the Conference on Smoking Cessation and the Women's Heart Health Summit
- **248** active clinical research studies
- **50%** success rate for Heart and Stroke Foundation funding competition, compared to 20% national average

COLLABORATING WITH KEY PARTNERS TO MAXIMIZE KNOWLEDGE TRANSLATION

- 40% of applications to the Canadian Institutes of Health Research (CIHR) open competitions were funded. National average was 15%.
- \$2 million from Ottawa Region for Advanced Cardiovascular Research Excellence ([ORACLE](#)) plan for scientist recruitment
- \$5.8 million from the Ontario Research Fund–Large Infrastructure initiative for the Centre for Original Medical Target Evaluation & Translation (COMET-α) project. This large-scale infrastructure grant will enable the Institute to transform research space to fast-track first-in human research and invest in more state-of-the-art equipment.
- [Dr. Munir Boodhwani](#), Cardiac Surgeon, co-hosted the very successful 1st North American Aortic Valve Repair Symposium in Philadelphia in May 2015, in collaboration with the University of Pennsylvania.
- [Dr. Emilio Alarcon](#) received a Wellcome Burroughs Fund to collaborate with the Wellman Center for Photomedicine at Harvard University.
- [Dr. Katey Rayner's](#) collaboration with New York University researchers resulted in funding from the US National Institutes of Health. The total project budget is US\$2.5 million.
- [Dr. Rob Beanlands](#) received the Canadian Cardiovascular Society Research Achievement Award in recognition of his important contributions to cardiovascular research throughout his career.
- [Dr. Thais Coutinho](#) received the Canadian Cardiovascular Society Young Investigator Award for her achievements in clinical research.
- [Dr. Wenbin Liang](#) won the Gordon K. Moe Young Investigator Award at the American Heart Association Northeast Affiliate Cardiac Electrophysiology Society Meeting.

For full details of our highly successful year in research, see the annex [Our Research Enterprise](#).

OUR MEDICAL DIVISIONS



CARDIAC ANESTHESIOLOGY | Chief: [Dr. Jean-Yves Dupuis](#)

[Cardiac Anesthesiology](#) at the Heart Institute is a multi-faceted division dedicated to preoperative cardiovascular care, education and research. The Cardiac Anesthesiology team has established a model that is unique in Canada. The division encompasses preoperative assessment and preparation of all patients prior to surgery, intra-operative anesthesia services, intra-operative echocardiography imaging, post-surgical intensive care management and all other respiratory care.



TEAM MEMBERS

- 15 Anesthesiologists
- 3 Fellows and 4 Residents



PUBLICATIONS

- 18, including in the *Journal of the American Medical Association* and the *Journal of Cardiothoracic and Vascular Anesthesia*



AWARDS

- [Dr. Michael Bourke](#): Clinical Practitioner Award of the Canadian Anesthesiologists' Society
- [Dr. Christopher Hudson](#): Education Innovation Award of the World Federation of Societies of Anesthesiologists
- [Dr. Robert Chen](#): UOHIAMO [Dr. Martin Green](#) Postgraduate Teaching Award



INTERNATIONAL COLLABORATIONS

- 15, including collaborations with Germany, the United States, the United Kingdom, Australia and Brazil

CARDIAC SURGERY | Chief: [Dr. Marc Ruel](#)

Over the years, the Division of [Cardiac Surgery](#) grew its clinical activity by nearly 200 open-heart operations per year, to more than 1,600 operations per year; expanded its renowned focus on first-class clinical care, top-quality outcomes, patient satisfaction, long-term follow-up, heart transplant, research, innovation and education; and boasts the lowest mortality rate reported by the Canadian Institute for Health Information. The Division of Cardiac Surgery continued to have a strong presence on international panels of global leaders.



TEAM MEMBERS

- 11 Cardiac Surgeons
- 3 Scientists
- 5 Associate Cardiac Surgeons
- 4 Fellows and 7 Residents



PUBLICATIONS

- 51, including in *Circulation* and the *Annals of Thoracic Surgery*, the *American Journal of Thoracic and Cardiovascular Surgery*, the *European Journal Cardio-Thoracic Surgery*



AWARDS

- [Dr. Tofy Mussivand](#): Nominated to Canadian Medical Hall of Fame, 2015
- [Dr. Fraser Rubens](#): Program Director Award - Department of Surgery, 2015 Program Director of the Year Award, Royal College of Physicians and Surgeons of Canada
- [Dr. Marc Ruel](#): Robert Roberts Award of Research Excellence (best publication in 2014-15 from the UOHI), 2015 Award of Excellence in Clinical Research from UOHIAMO



INTERNATIONAL COLLABORATIONS

- 17, including collaborations with China, Sweden, Japan, Chile and the United States

CARDIOLOGY | Chief: [Dr. Rob Beanlands](#)

[Cardiology](#) at the Heart Institute is a model of excellence in all realms of cardiovascular medicine. Its clinical programs serve among the largest patient volumes in Canada in electrophysiology, interventional cardiology and heart attack management, cardiac critical care, advanced heart failure, and multimodality cardiac imaging. The cardiology residency program is the most sought-after training program in the country. Fellowship training programs attract fellows from six continents and across Canada. The Division conducts state-of-the-art research to understand disease and to develop the therapies of tomorrow.



TEAM MEMBERS

- 40 Cardiologists
- 15 Associate Cardiologists
- 10 Clinician Scientists
- 5 PhDs
- 18 Fellows and 12 Residents



PUBLICATIONS

- 220, including in *Nature Genetics*, the *Journal of the American College of Cardiology*, *Circulation* and the *New England Journal of Medicine*



AWARDS

- [Dr. Rob Beanlands](#): Canadian Cardiovascular Society Research Achievement Award and Department of Medicine Vision Award
- [Dr. Thais Coutinho](#): Canadian Cardiovascular Society Young Investigator Award
- [Dr. Girish Dwivedi](#): Canadian Society of Echocardiography Top Abstract Award and CIHR New Investigator Award



INTERNATIONAL COLLABORATIONS

- 15, including collaborations with Germany, the United States, the United Kingdom, Australia and Brazil

PREVENTION AND REHABILITATION | Chief: [Dr. Andrew Pipe](#)

The Division of [Prevention and Rehabilitation](#) provides state-of-the-art approaches to the prevention of cardiac disease: preventing patients from having additional cardiac events and helping patients return to their lives following cardiac events and procedures. Our programs are informed and enhanced by our ongoing research activities which address an array of issues pertinent to the prevention of heart disease. Our Prevention & Wellness Centre provides a variety of resources and programs to our patients and their families. The Division of Prevention and Rehabilitation is home to the internationally-renowned Ottawa Model for Smoking Cessation and the Canadian Women's Heart Health Centre.



TEAM MEMBERS

- 6 Physicians and Fellows
- 77 Allied Health Care Professionals
- 3 PhDs and 8 Research Staff



PUBLICATIONS

- 20, including in the *European Journal of Preventive Cardiology*; *Tobacco Control*; the *Journal of Consulting and Clinical Psychology*; and *Applied Physiology, Nutrition and Metabolism*



AWARDS

- Katelin Gresty: Canadian Association of Cardiovascular Prevention & Rehabilitation Scholarship
- Dr. Stephanie Prince Ware: CIHR post-doctoral fellowship, UOHI Endowed Fellowship and Graduate Award, 2015 UOHI Cardiovascular Trainee of the Year
- [Dr. Jennifer Reed](#): CIHR Research Travel Award



INTERNATIONAL COLLABORATIONS

- Numerous international affiliations, including collaborations with the United States, the United Kingdom, Netherlands, Romania, Uruguay, China, Greece and India

OUR FOUNDATION

The generous support from our community enabled [our Foundation](#) to realize several successful fundraising milestones in 2015-16, including \$15 million in donations for the first time in its history, its first crowdfunding campaign which raised over \$500,000, and the celebration of *February Is Heart Month* which raised a record \$437,000. Its cost for every dollar raised remains the lowest for Ottawa healthcare foundations.

This year, the Foundation hopes to raise \$4 million for the new hybrid operating room to be housed in the new expansion. This new procedure room will enhance the efforts of the clinical team with a state-of-the-art collaborative and patient-centred environment.

39 PIECES OF EQUIPMENT SECURED FOR NURSES, DOCTORS AND TECHNICIANS

TWO PORTABLE HEART LUNG SYSTEMS

During heart surgery this life-saving piece of cardiac care equipment acts as both lungs and heart. Without it, many patients could not survive an intricate and lengthy operation.

SIX PATIENT DEFIBRILLATORS

Defibrillators are found throughout the Heart Institute. They are often used when a patient has had a cardiac arrest. It can also correct or remove an abnormal arrhythmia.

FIVE ECHOCARDIOGRAPHY TEE PROBES

A must-have piece of equipment for patients undergoing surgery or in the Intensive Care Unit. Advanced sound wave technology allows medical staff to quickly and accurately determine the best course of treatment for patients.

26 MOBILE TREATMENT CARTS

Treatment carts are used in all areas of the Heart Institute to house and store the everyday supplies that clinicians need to provide, prompt, safe, and effective patient care.



"I had open heart surgery at the Heart Institute on November 24, 2006, for a replacement of my aortic valve. The surgery was performed by Dr. Mesana who was chief of cardiac surgery at the time. Since my surgery and the post-surgical care which includes physical exercise at the Heart Institute, I have led a very healthy life.

I am 73 years old and whatever help I have provided since then and continue to provide to the Heart Institute through monetary donations cannot come anywhere near the gratitude that I feel for the staff. Thank you."

- Grateful patient and donor

UOHI AUXILIARY

The [UOHI Auxiliary](#) consists of approximately 170 men and women ranging from 17 to 90 years old, dedicated to providing support to patients and families as well as raising funds for UOHI projects. Early this year, the University of Ottawa Student Foundation, part of the Auxiliary, hosted its first annual Winter Gala. The Gala was held at the Marriott Hotel in Ottawa and raised over \$7,000. Congratulations to these inspiring young people.

Marnie Armstrong, a volunteer for over 40 years, received the Patient Alumni Volunteer Award and Patrick Power was given the Heart of Gold pin.

➕ **20,000** volunteer hours a year

➕ **6** work areas

➕ **170** volunteers

➕ Raised more than **\$1 million** for UOHI equipment and projects



PATIENT ALUMNI ASSOCIATION

The last year has been a milestone for the [University of Ottawa Heart Institute Patient Alumni Association](#). While the Alumni continues to fund many projects aimed at improving patient comfort and support, it has also created and delivered innovative new initiatives such as an online patient support community. It has also contributed to the delivery of the new Healthy Foods Program at the Institute's Tickers Cafeteria and has supported the availability of "meds bags" given to all discharged patients.

The Alumni has been significantly involved in major UOHI patient engagement initiatives on several fronts. A vital turning point was the joint announcement last fall by [Dr. Thierry Mesana](#) and Alumni President [Jean Bilodeau](#) that all UOHI patients would automatically become Alumni members, without a membership fee. This "new Alumni" model is aligned with the strategic partnership between the Alumni and the UOHI.

Association contributions to equipment and projects over the last year include:

- Patient financial support: **\$45,000**
- Direct patient support: **\$110,000** (water bottles, med bags)
- Alumni support: **\$55,000** (website, telehome)
- Patient specialized equipment: **\$25,000** (wheelchairs, vital signs equipment)
- General equipment for patient support: **\$85,000**

FINANCIAL STATEMENTS

GUIDING PRINCIPLES

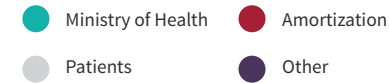
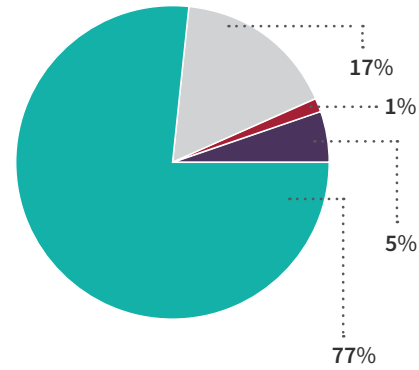
We are held **accountable** for the use of public funds and our financial statements are audited yearly by PriceWaterhouse Coopers.

We are **transparent** to all stakeholders including all Canadians.

We give taxpayers **value for money** by managing responsibly.

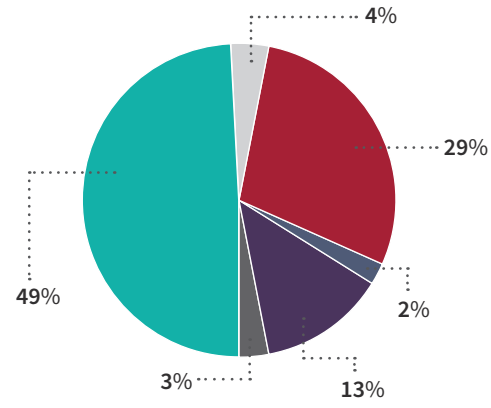
UNIVERSITY OF OTTAWA HEART INSTITUTE

REVENUE 2015-16



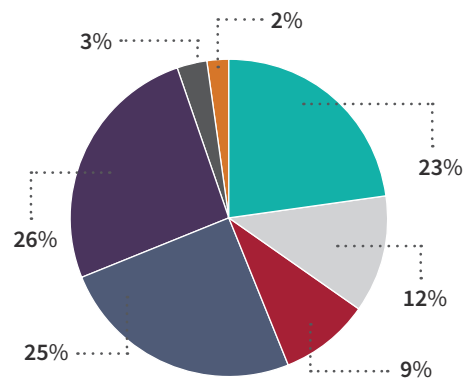
TOTAL BUDGET \$170.9 MILLION

EXPENSES 2015-16



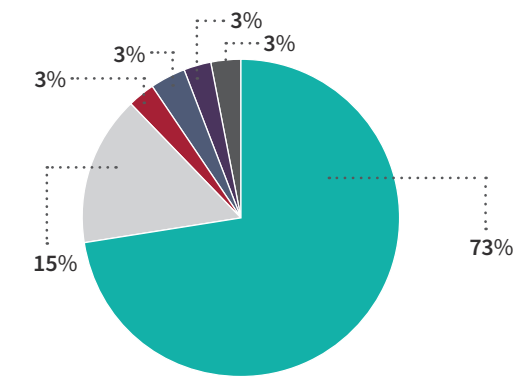
OTTAWA HEART INSTITUTE RESEARCH CORPORATION

REVENUE 2015-16



TOTAL BUDGET \$33.8 MILLION

EXPENSES 2015-16





40
YEARS
ANS



UNIVERSITY OF OTTAWA
HEART INSTITUTE
INSTITUT DE CARDIOLOGIE
DE L'UNIVERSITÉ D'OTTAWA