



**Humber River  
Hospital  
Foundation**

Lighting New Ways  
in Healthcare™

## **Robotic Surgery Expansion Campaign**

FUNDING  
PROPOSAL



## Expanding Robotics at Humber River Hospital

We've always been proud of the trailblazing spirit that fuels everything we do. But nowhere has this been more evident than during the COVID-19 pandemic. While the coronavirus has thrust healthcare capacity into the limelight, we at Humber have always worked to solve these problems. For decades, our Department of Surgery has been at the forefront of innovations that have allowed us to treat more patients, in less time and with better outcomes using robotic surgical innovations.

Our expertise in robotic surgery ranges from urology, general surgery, gynecology to orthopaedics. The centrepiece of our robotic surgery program is the daVinci Surgical Robot – a sophisticated piece of equipment that was made possible by a transformational gift by Helen Hull and her late husband Murphy in 2012. For the past 10 years, hundreds of patients with the most complex medical needs have received treatment at the hands of our talented surgeons guiding the robot during surgery. In many of these cases, only the precision of daVinci could reach the areas that needed intervention. Last year, Humber expanded our suite of robots to include ROSA— a robot used for same-day knee replacements. Today, hundreds of patients a year undergo surgery and are back living their lives faster than ever before. This benefits the patient first and foremost, but also the entire healthcare system since complications, overnight admissions and readmissions are greatly reduced (if not eliminated). If we can expand our robotic surgery program at Humber by acquiring new and more robots, we can offer more groundbreaking procedures to patients who need them most without using up much-needed capacity in our Hospital.

Donor support today will help us upgrade our daVinci Surgical Robot to the newest Xi model, and will help bring a second ROSA to Humber. But most importantly, you will make sure every patient who comes to Humber for robotic surgery (during the pandemic and beyond) gets back to their lives sooner with a quicker recovery, minimal pain and almost no time spent in the Hospital.



**575** (by next year)

robotic procedures our teams want to perform annually, including surgeries in orthopaedics, urology, general surgery and gynaecology



**\$4,182.60**

Average cost per robotic procedure for things like probes, scopes and other consumables. This adds up to millions of dollars each year.



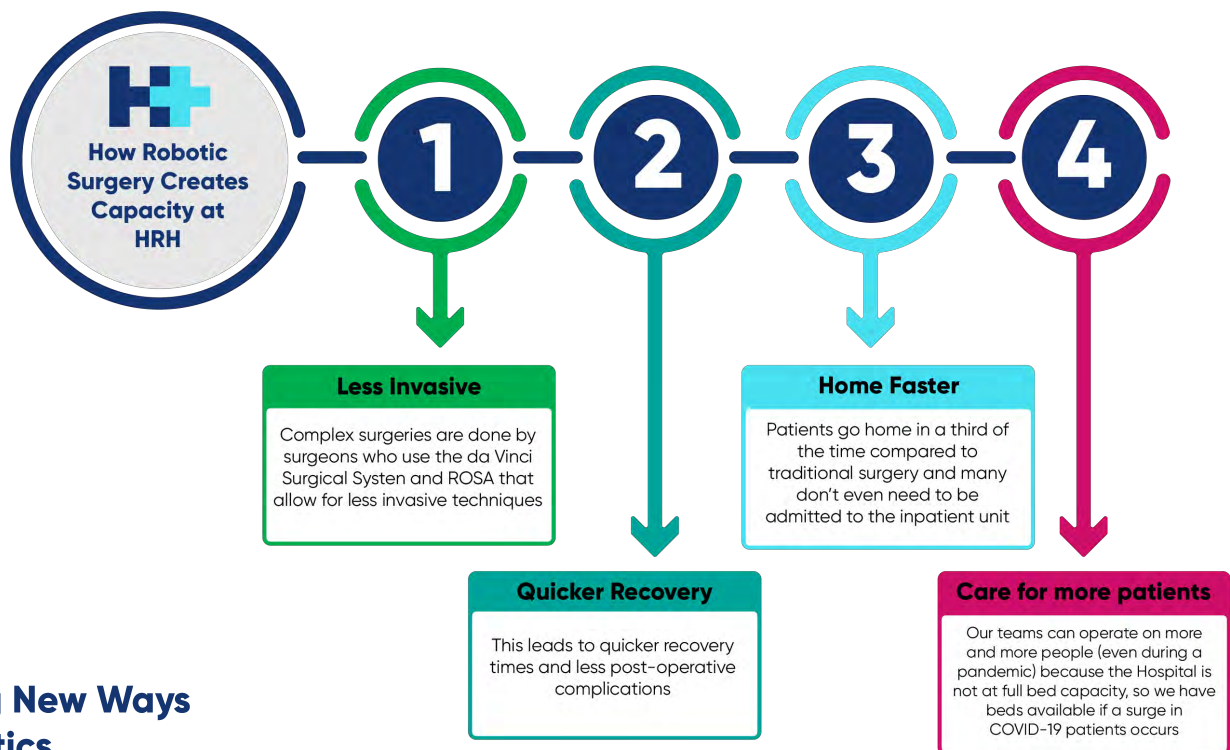
**100%** Donor funded

at Humber River Hospital, all robotic surgery is completely funded by our generous donors, which is why we need to continue to fundraise



**\$1,400**

Cost savings by reducing a patient's length of stay in the hospital by one day - this adds up to millions of dollars each year



## Lighting New Ways in Robotics

Humber's Robotic Surgery Program is a perfect example of what can happen when innovation and philanthropy intersect in healthcare. Our donors fuel our surgeons' fight for every patient, even when most surgeons at other hospitals can't proceed due to the complexity of the patient's care. At Humber, our surgeons see the most complicated and risky cases in the province because of our da Vinci. Some patients travel far and wide to have their surgeries here since da Vinci and ROSA can get to the most remote parts of the body.

When the da Vinci first arrived at Humber almost 10 years ago, it was used predominantly for urology procedures like prostatectomies. Today, many programs use the robot for a variety of minimally invasive procedures including hysterectomies and complex ventral hernia repairs. In the future once we upgrade to the next generation da Vinci Xi Surgical System, our teams have big plans to expand even further and increase volume in our current procedures and expand to other procedures such as colorectal cancer. Acquiring another ROSA will help us double our robotic knee replacements to 400 each year.

On a more systemic level, treating patients in less time and with better outcomes using robotic surgery innovations allows us to expand internal capacity in the Hospital. This allows more beds to be used for acute care all year round, and in special circumstances like a pandemic. In a publicly funded system, creating capacity and leading the innovation curve presents great economic benefits to the healthcare system as a whole. When we reduce length of stay by just one day, the system savings are approximately \$1,400 per day, per patient. When we reduce one readmission to hospital, the system savings are approximately \$5,000 to \$12,000 or more depending on the complication.

"After two surgeries to treat my colorectal cancer at another Toronto hospital, I developed a hernia at my incision site. My doctors referred me for robotic surgery with Dr. Steven MacLellan. I was very impressed with his professionalism. When I was with him, I felt like I had his full attention. He left no questions unanswered. Post-surgery, I stayed overnight at Humber in a single patient room. With the exception of some discomfort when trying to sit up, I was surprised to find that I experienced much less pain than I had anticipated. The next morning, my wife Eve and I were in our car on the way back to our home in Orillia by 11am. We stopped for lunch, and were delighted that I felt well enough to spend some of the afternoon at a neighbour's birthday party."

**Gordon, Grateful Patient** (and life of the party!)



## The Future of Robotics at Humber

As with all innovation, robotic surgery requires commitment, determination and investment. Our physicians, nurses, program directors and Hospital administration are ready to do their part to save and change even more lives in our community. But they can't do that without donor support.

An investment from donors today will help us acquire a brand new da Vinci Xi Surgical System – the best surgical robot on the market today – and a second ROSA robot to help perform robotic knee replacements. This will allow our robotics program to expand in terms of the number of patients we see, but also the procedures we are able to perform. This will also position Humber as a training hub for new surgeons, or those who wish to be trained on the best surgical robots available in the GTA. One more example of how you can be the light that shines brightly at Humber and beyond.

Here are more details on the da Vinci Xi Surgical System and a second ROSA:



### da Vinci Xi Surgical System

The most versatile surgery robot on the market, the new da Vinci Xi will be an upgrade from our current da Vinci Si model and will help us operate on more patients and expand our surgery offering to patients to include treatment for:

- + Prostate Cancer (Radical Prostatectomy)
- + Colorectal Cancer
- + Renal Cancer

**NOW**

**76**

Total cases a year

**THEN**

**175**

Total cases a year



### ROSA (x2)

ROSA is the next generation in surgical planning and execution and Humber will be the first hospital in Canada to acquire two of these robots. Surgeons are robotically-guided during total knee replacements. This allows more accuracy in positioning the ROSA artificial knee implant that comes in standard and narrow sizes to match the shape and size of various patient ethnicities, genders and statures. After surgery, patients have greater range of motion and less complications.

**NOW**

**200**

Total cases a year

**THEN**

**400**

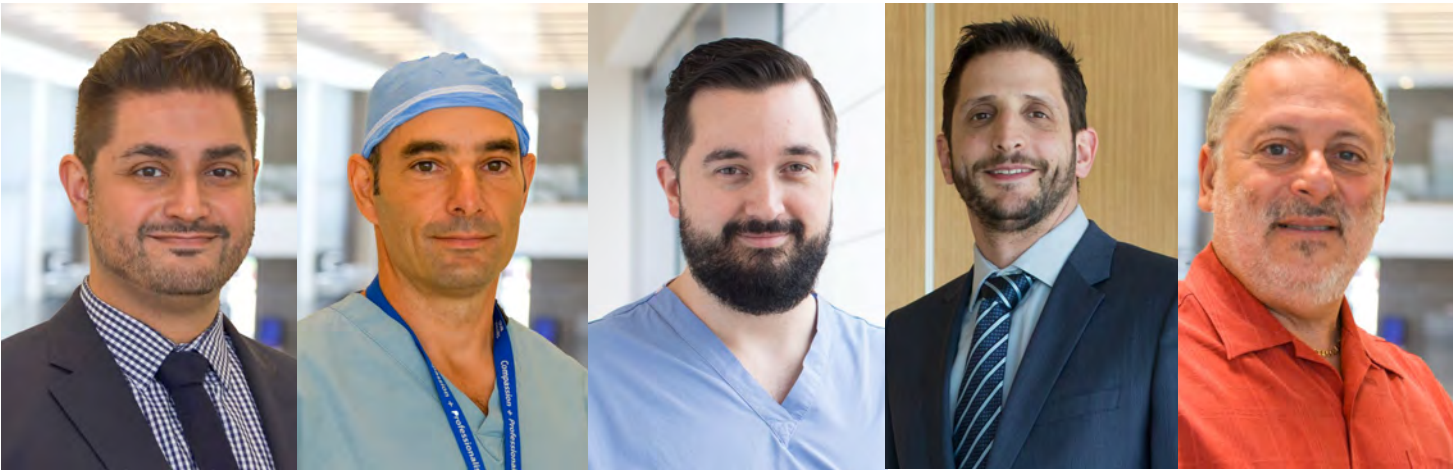
Total cases a year



"My mom was referred to see an OBGYN just outside Toronto. The OBGYN performed a biopsy and discovered that she had Grade 1 cancer in her uterus. She told us that she could perform a traditional hysterectomy for my mom, but because of her age and health conditions, she recommended that we consider robotic surgery with Dr. Andre LaRoche at Humber River Hospital. She said the surgery with Dr. LaRoche would be less invasive and have a faster recovery time.

After bringing mom home, I was amazed to see how mobile she was. She experienced a little cramping, but no real pain and never took any pain medication beyond Tylenol. She was up on her feet, washing her face and brushing her teeth the next day. There is no way she would have been able to do that without the robotic surgery. When I looked at her incision, there was nothing there except three tiny spots! We are forever in Dr. LaRoche's debt."

**Sylvia**, Grateful Daughter (to patient Miren)



## Make an Impact Today: Donate to our Robotic Expansion Campaign



**\$10 million**

**\$6 million** for the da Vinci Xi Surgical System\*

**\$4 million** for a second ROSA Robot\*

These funds will cover acquiring the equipment, training clinical teams and funding consumables for up to 5 years.

An investment from our donors will allow our Hospital to expand robotic surgery for patients who need it the most. Without this funding, our robotic surgery program is at risk of remaining stagnant or, even worse, becoming obsolete. Many people across the province with complex health needs would be left with fewer options.

We believe funding is always needed for the next innovation as much as the first. Donor support will help us upgrade our robotic tools with the new da Vinci Xi Surgical System and expand with a second ROSA – meaning all knee surgery performed at HRH will be performed using the precision of a robotic approach, setting yet another industry standard in Orthopaedics.

As with all innovation, each surgery comes with a cost for probes and other consumable items that can only be used once per patient. Donor investment will also go towards the ongoing costs of robotic surgery for patients who often have no other surgical options available to them. Until robotic surgery is funded by the province, our Foundation will continue to raise funds to cover all the costs associated with robotic surgery.

Your support today will help us save lives and give patients a second chance at life. Humber River Hospital is working hard every day to light new ways in healthcare. Without our generous donors this would not be impossible. Together we can turn on a light that will never, ever go out.

This chart shows how we envision the robotics program at Humber starting next year and then annually after that.

**Be the light. Be the change. Be a Humber River Hospital donor. Please give generously today.**

Specialty	Types of Cases	Number of Cases
Urology	Robotic Radical Prostatectomy, Nephrectomy, Pyeloplasty	75
General Surgery	Robotic Hernia Repair (Ventral, Umbilical, Incisional), Colorectal Cancer, Gastric Cancer, Bariatric Indications	50
Gynaecology	Robotic Total and Partial Hysterectomy	50
Orthopaedics	Robotic Total Knee Replacement	400
<b>Total Robotic Surgeries Annually</b>		<b>575</b>

\* or a similar robotic surgery system



# Contact me today and let's start making an impact.



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The information, statistics and funding priorities included in this document are accurate at time of distribution and are subject to change and verification by Humber River Hospital Foundation.



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**Lighting New Ways in Healthcare™**