



People of The Moncton Hospital

Annual Campaign 2016-2017

Please Give | FriendsFoundation.ca/Donate



Our healthcare teams at The Moncton Hospital save lives.

Every day.

That's true.

But, even more often, they enhance lives.

Let's think about how swiftly everything can change.

If you need your gall bladder, kidney, appendix or a cancerous growth removed; a knee replaced, or eyesight repaired...or even if you suffer from acid reflux or have problems swallowing, you will quickly discover how compromised health can have a profound effect on your enjoyment and quality of life; on your well-being.

Naturally, this has a ripple effect through families, friends, co-workers, and community.

Chances are that someday you or someone you care about will experience one of these, or similar health concerns. Perhaps this has happened already.

If so, you know that even the smallest contribution to your care can make a big difference; whether it be a smile from a stranger, an unexpected act of kindness, or the comfort that comes from knowing your healthcare team has access to the latest in medical technology.

And just as important is the assurance that you can receive this care here: In your own community. In your own hospital.

When we can improve your healthcare experience and return you to the mainstream of life faster, we all benefit, don't we?



This year, the Friends of The Moncton Hospital Foundation aims to raise \$1.1 million for the purchase of leading-edge instruments and video technology for Minimally Invasive Surgical Suites, computer navigation equipment to enhance knee surgeries, a high-tech system for evaluating and diagnosing esophageal problems and a digital marking system to improve cataract surgery.

These technological advancements will greatly improve our ability to deliver healthcare excellence, and hasten patient recovery for general, urology, thoracic and orthopedic surgeries, as well as in the Endoscopy (gastrointestinal) and Ophthalmology (eye) Clinics.

We've focused on replacing and upgrading medical equipment that most people might not envision when they think healthcare but which is vitally important to so many... *every single day*. These instruments are among the most commonly and widely used in our hospital and will make the world of difference to someone who needs them.

Will you help us?

WHEN YOU NEED SURGERY...

Surgeons at The Moncton Hospital perform about 10,000 surgeries per year on patients of all ages, ranging from removing tonsils or putting tubes in ears to complicated brain surgery. **About 20 percent of these are done with minimally invasive surgical techniques.**

Minimally Invasive Surgery (MIS) has revolutionized the way people think about surgery.

These procedures, which use tiny telescopic cameras, scopes and instruments inserted through small incisions, have become the standard of care that both patients and surgeons expect whenever possible.

Access to this type of surgery benefits patients by reducing wait times for procedures, shortening surgical time and improving outcomes and recovery, enabling them to return much sooner to the things they love to do.

Surgeons are trained in these procedures during their residencies and have come to expect access to MIS instruments within the hospital environment. Having the most progressive technology available is essential for hospitals hoping to attract and retain skilled specialists.

While availability of this specialised equipment is limited in New Brunswick, The Moncton Hospital is fortunate to have two MIS surgical suites, which were made possible through donor generosity to a previous campaign. These suites have already allowed us to attract a number of surgeons. Having new technology will help in the future recruitment of thoracic surgeons; currently there is only one on staff at TMH.

Digital technology changes with lightening speed. Consider for a moment, your own camera equipment. With the Annual Campaign 2016-2017, the Friends of The Moncton Hospital Foundation aims to replace the now aging MIS equipment in these suites with the latest in digital imagery and technological advancements as well as modern computer assisted knee replacement technology.

Did you know?

For the patient, minimally invasive surgery means less overall trauma and anxiety, less time under anesthetic, less blood loss, less risk of infection, fewer sutures (stitches), faster recovery time, and much less discomfort and scarring than with conventional surgery.

Minimally Invasive Surgical Equipment (Control Centre & Scopes)

INVESTMENT: \$447,000

Minimally Invasive Surgical Suite



MIS Control Centre

What we need

One of the fundamental principles of a safe and successful MIS procedure is the ability to maintain a clear operating field using tiny scopes to transmit images of the inner surgical site through a camera to an external monitor.

Reliable equipment is an absolute necessity. **The purchase of MIS equipment and scopes at a cost of \$447,000** will move us into the next generation of digital technology, providing surgical teams with significantly improved instruments with enhanced flex-tips (to better navigate the surgical field), anti-fogging capabilities and digital image quality.

Why we need it

The Moncton Hospital's thoracic (esophagus, chest, lungs), urology (urinary tract and reproductive organs) and general surgery programs perform procedures such as ureteroscopies (extracting kidney stones); appendix, kidney or gallbladder removals; bowel resections; hernia repairs and lung and chest surgeries—often removing cancerous growths—on about 500 patients a year.

In recent years, thoracic and urology surgeries have been complicated by equipment issues with excessive fogging and loss of image.

Such impediments prolong the surgical time (patient remains under anesthesia longer), and sometimes create delays, or even downtime, in the surgical suite.

This aging equipment should be replaced as soon as possible.

When you help us upgrade to the latest in technological advancements, you'll enable The Moncton Hospital to offer a higher standard of care for patients, and a seamless surgical experience for staff. You never know when you or someone you love may need a surgical procedure.

Well over half of all lung cancer patients in New Brunswick are treated at The Moncton Hospital. We have been at the forefront in the development of modern thoracic techniques here in the Maritimes. Video-assisted thoracoscopic surgery (VATS), has undergone significant evolution over the last few years. In fact, we did the very first VATS lung resection in the Maritimes in 2009. It is time to replace equipment that is becoming worn out and outdated. The technology continues to evolve, making the operation safer, easier and less invasive.

Dr. Paul Dubois, Thoracic Surgeon



Various scopes that will be purchased for MIS

Portable Video-Assisted Surgical Technology

INVESTMENT: \$126,000



What we need

This portion of our campaign will fund several systems consisting of portable scopes and cameras, as well as the computer hardware essential to MIS procedures. The beauty of these 'towers' is their seamless integration with the 'fixed in place' surgical instruments described above, and their portability, which allows them to be used in any of the surgical suites.

Why we need it

The Moncton Hospital's general, gynecology, ENT (ear, nose & throat) and orthopedic surgery divisions perform minimally invasive surgery (MIS) on approximately 1,000 patients each year.

The surgical teams use this portable video-assisted surgical equipment for both diagnosing problems and performing surgical repairs on shoulders, hips, knees, sinuses, reproductive organs (hysterectomies and tying fallopian tubes), and removal of kidney stones, among others.

This equipment receives high usage, but surgeons have expressed concern over the state and picture quality of the existing equipment. The scopes, cameras and associated video components, which include monitors, hard drives, and equipment to capture, transmit and record the operating procedures are becoming obsolete and need replacing.

The enhanced digital technology of the new systems will provide a clearer, magnified view of the procedures for the surgical team, improving their ability to provide necessary care for the patient. The portability of the equipment means it can be shared with other surgical suites.

Failure to replace this equipment will result in significant downtime for the suites, and delays for patients awaiting diagnoses and surgery.

We all know the stress of waiting for a diagnosis. It is often simply a comfort to know what you are dealing with. Let's work together to return patients to healthy, productive lives as quickly as possible, shall we?

Computer Navigation System for Knee Replacement

INVESTMENT: \$220,000

What we need

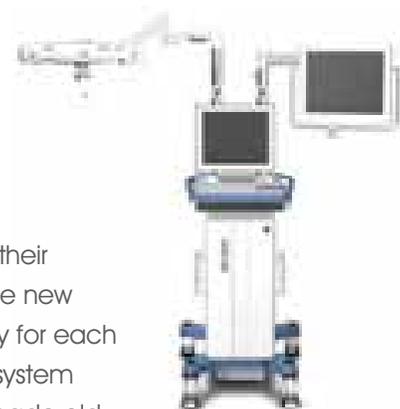
Total knee replacement is one of the most successful procedures in orthopedic medicine, enabling most people to live richer, more active, pain-free lives.

Proper alignment during the surgery is essential to lessen premature wear and tear, and reduce the requirement for revision surgery (second occurrence of knee replacement surgery).

Two orthopedic surgeons at The Moncton Hospital use a specialized computer navigation system

to help them pre-plan their approach and align the new artificial joint accurately for each individual patient. The system currently in use is a decade old, and must be replaced.

With an investment of \$220,000, we can upgrade outdated computer-assisted knee replacement equipment to take advantage of the next evolution in software and hardware, allowing surgeons to simplify and customize knee alignment.



QUICK FACTS: Knee replacement surgery is most often performed on those over the age of 65, but during the past decade, Canadian statistics show a 280% increase in the requirement for this surgery in the 45 to 54 age group. This is partly due to a dramatic increase in occurrences of osteoarthritis, which is the primary reason for total knee replacement.

Here in New Brunswick, we have a significant population over the age of 65 needing the surgery, and the demand is growing exponentially in middle-aged and obese persons. In other words, we are doing more knee replacements than ever before on a younger population. This affects both the patient's work and family life, as well as their expectation for mobility as they age.

Why do people have knee replacement surgery?

For the majority of people who have knee replacement surgery, the procedure results in:

- a decrease in pain
- increased mobility
- improvements in activities of daily living
- improved quality of life.

Although there are several conditions which may lead to the need for knee replacement, arthritis (whether it be osteoarthritis, rheumatoid arthritis or traumatic arthritis) is the most common reason. A number of other factors contribute to joint disease including genetics, developmental abnormalities, repetitive injuries and obesity.

Why we need it

In the past ten years, approximately 40% of knee replacement surgeries (approximately 200 patients annually) at The Moncton Hospital have been aided by the use of a computer navigation system. Surgeons at The Moncton Hospital are convinced it leads to improved patient outcomes, and reduces the requirement for revision surgery later.

Think about the astounding level of computer advancements you've witnessed in your own life during the past decade. It is no different for medical equipment.

A new computer navigation system will enable greater precision in the alignment of the artificial knee joint, and also prove beneficial during more complex orthopedic surgeries when plates, rods and screws are necessary to repair femur or tibia bones in the thigh or shin.

These enhancements translate into faster recovery, better quality of life and future mobility prospects for patients. With new technology, we know we can reduce the instances of revision surgery, resulting in fewer overall surgeries and hospital stays. It means significant cost savings for our healthcare system. As well, it will better equip our surgeons as demand for this surgery increases.

Performing a total knee replacement using this sophisticated navigation system gives me the ability to accurately achieve target alignment which increases my confidence that patients will get better results, giving them the ability to enjoy a more active lifestyle with less pain.

**Dr. Will Allanach,
Orthopedic Surgeon &
Chief of Orthopedics**

In addition to helping our local populations, your contribution towards this equipment will also benefit patients from Prince Edward Island, northern Nova Scotia, and northern New Brunswick who are referred to The Moncton Hospital for this surgery. The improved data collection, research and reporting capabilities of the system will also aid in future research.

What is revision surgery?

Revision surgery is a second occurrence of knee replacement surgery on the same patient, usually due to poor alignment of the knee joint, or other complications. It is a longer, more complex procedure than the original replacement, costing in the range of \$60,000 to \$100,000. This surgery is much harder on the patient, and often results in longer recovery periods. This means younger patients are off work longer, older patients require longer hospital stays and may experience significantly reduced mobility. The more we can do to reduce the necessary for revision surgery, the better for both the patient and their ability to regain mobility, and the healthcare system.

What is an esophageal motility test?

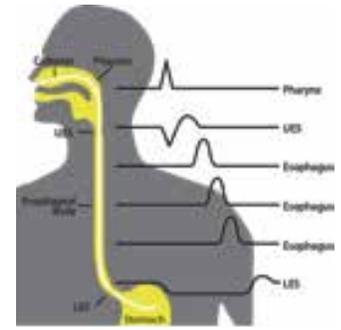
An esophageal motility test measures the strength and coordination of the esophagus, which moves food from your mouth to your stomach. It involves inserting a thin, pressure-sensitive tube through the nose, along the back of the throat, down the esophagus and into the stomach to help locate any areas of difficulty. It can also be used in pre-op evaluations to determine if surgery is actually necessary, and to diagnose unspecified chest pain.



Esophageal Motility System

INVESTMENT: \$115,000

When it works well, the act of eating is a pleasure (and a necessity) we often give little attention. But for people who have difficulty swallowing, or who suffer acid reflux or heartburn, eating can be an uncomfortable and arduous chore. This is when an esophageal motility test can help us discover the root of the problem.



What we need

The purchase of a new **Esophageal Motility System** for Endoscopy Clinic E, at a cost of \$115,000, is a necessity for pre-op surgical evaluations and the assessment of patients experiencing swallowing disorders, as well as ruling out digestive causes when investigating unspecified chest pain.

Why we need it

Each year, physicians at The Moncton Hospital typically refer about 100-130 patients for this procedure, which is performed with leased equipment that is 10 years old and seriously out-of-date. Some parts are difficult to obtain, resulting in delays in assessment, diagnosis and treatment, leaving patients with few options for relief.

The equipment failure has created a backlog of patients awaiting surgery who cannot be scheduled until a motility assessment verifies that surgery is indeed the best choice for them.

If the current device ceases to function before a new system can be purchased, physicians will have no choice but to refer patients to Saint John or Fredericton hospitals to have the procedure done, resulting in delayed treatment and the hardship of travel costs for the patient.

Your generous contribution towards the purchase of this essential **Esophageal Motility System** will help us diagnose and treat those with swallowing disorders quickly and efficiently and speed up the associated surgical wait times.

Esophageal motility disorders encompass a broad class of diseases. Symptoms are quite variable and can manifest as the sensation of food sticking, regurgitation or chest pain. These disorders are notoriously difficult to assess on the basis of symptoms. Precise, reliable testing is critical to make the correct diagnosis.

Dr. Robert Berger, Gastroenterologist
Chief of Gastroenterology

Digital Marking System to Improve Cataract Surgery

INVESTMENT: \$92,000

What we need and why we need it

Like our ability to eat, our eyes are also taken for granted until our sight is compromised. As we age, the lens in our eye may become cloudy. This is called a cataract. Cataracts can be corrected by removing the cloudy lens and replacing it with an artificial lens, resulting in clear vision for the patient. This is a common procedure which takes about 15 minutes. Physicians at The Moncton Hospital perform up to 1700 cataract surgeries a year.

Approximately 400 of these cataract patients also have an eye condition called an astigmatism, (a curvature of the eye lens causing even further distortion and blurring of the vision) and choose to have a specialized toric lens that will correct both the cataract and the astigmatism at the same time.



The insertion of a specialized toric lens requires careful measurement by the surgeon. Right now, the surgeon does this manually using a measuring instrument and an ink marker to ensure accurate alignment on the eye. Markings must be exact to

provide optimum visual outcomes for the patient, but they are subject to

human error. The Moncton Hospital needs digital cutting-edge technology to reduce—and in most cases eliminate—the margin for error. A computer-assisted toric marking system communicates precise measurements to the intra-operative microscope used during the procedure, reducing time involvement and increasing vision sharpness and clarity for the patient.

“The digital marking system will definitely improve the precision of our toric lens placement during cataract surgery on those patients with an astigmatism, optimizing patient outcomes with improved vision.”

Dr. Gilles Cormier, Ophthalmologist

An investment of \$92,000 will allow us to purchase the latest in digital marking technology for the Ophthalmology Clinic. It will help surgeons with the precise placement of a toric lens during cataract surgery on those patients with an astigmatism, thus improving visual acuity and satisfaction for those patients who need it. Your contribution towards this equipment will not only help The Moncton Hospital’s ophthalmology team improve the vision for patients after cataract surgery, but will also help us better align The Moncton Hospital’s services with those offered at other Atlantic Canadian hospitals.



The Need is Right Now – \$1.1 Million Goal

CAMPAIGN EQUIPMENT BREAKDOWN AND COSTS	
Minimally Invasive Surgical Equipment (Control Centre & Scopes)	\$447,000
Portable Video-Assisted Surgical Technology	\$126,000
Computer Navigation System for Knee Replacement	\$220,000
Esophageal Motility System	\$115,000
Digital Marking System to Improve Cataract Surgery	\$92,000
Total	\$1,100,000 includes 10% cost of fundraising

You can help enhance lives

By enabling us to reach this year's goal of \$1.1 million, you will be supporting a healthcare team that works diligently *every day of the year* to keep our community *active, healthy and happy*.



None of us want to be held back from enjoying all that life has to offer. When physicians have access to the latest technological breakthroughs, it can mean a quick and successful procedure, and a faster recovery time for each of us and the people we care about. We all want to return quickly to the activities in life that are important to us.

The generous support of our donors in the past has enabled us to provide skilled specialists with the very latest in technology. Every day we witness the difference this makes to the patient experience in our hospital environment, and in their return to normal life.

It is imperative that we keep moving and improving.

Be part of the team. Together, we can take advantage of the medical advancements available. Your donation today will help us return thousands of individuals each year back into the mainstream of life.

Our Friends of The Moncton Hospital Foundation Annual Campaign 2016-2017 runs from October 2016 through to April 2017. We could not manage campaigns such as this without the valuable support of our dedicated team of volunteers, co-chaired this year by Lorne Mitton and Pat Armour. These vital community members inspire us with their heart for community service. Many others assist by canvassing donors, holding fundraisers and performing other support roles to help us reach our financial goal.

We are grateful beyond words for them. And for you. Please donate today to the Friends of The Moncton Hospital Foundation Annual Campaign 2016-2017.

STRENGTHEN CARE.
TO LEARN MORE



-  **Call 506.857.5488**
 -  **Click FriendsFoundation.ca/Donate
Email Friends@HorizonNB.ca**
 -  **Come in 135 MacBeath Avenue
Moncton, NB E1C 6Z8**
-

The Friends of The Moncton
Hospital Foundation
has raised
close to \$40 million
in the past 10 years to
enhance patient care.



Donate online www.FriendsFoundation.ca/Donate

Email us Friends@HorizonNB.ca

