

Technology meets.  
expertise

GEM CENTRE FOR

# ROBOTIC LAPAROSCOPY

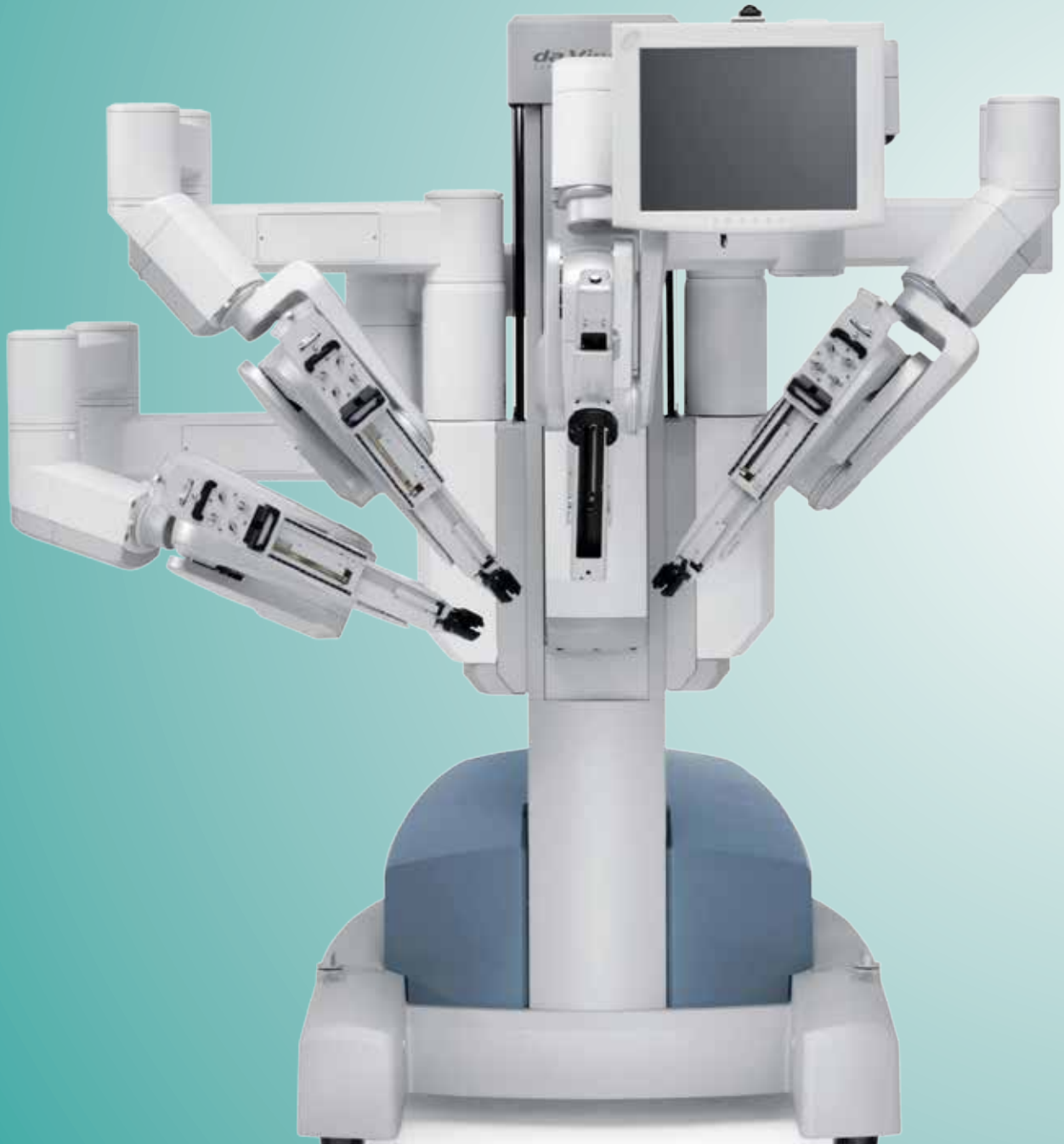


# GEM HOSPITAL

Institute of Gastroenterology & Laparoscopy

# PLACING PATIENT'S NEEDS FIRST

The Center for Minimally Invasive and Robotic Surgery at GEM Hospital is committed to placing patient's needs first. The Centre continually demonstrates excellent outcomes by utilizing highly trained surgeons, compassionate bedside care and offering the very best options in technology. Surgeons at GEM Hospital perform over 6000 minimally invasive and robotic surgery cases annually, utilizing the most advanced surgical technology and techniques available today so that patients can heal faster, suffer less pain and scarring, and get back to their lives faster than ever before.

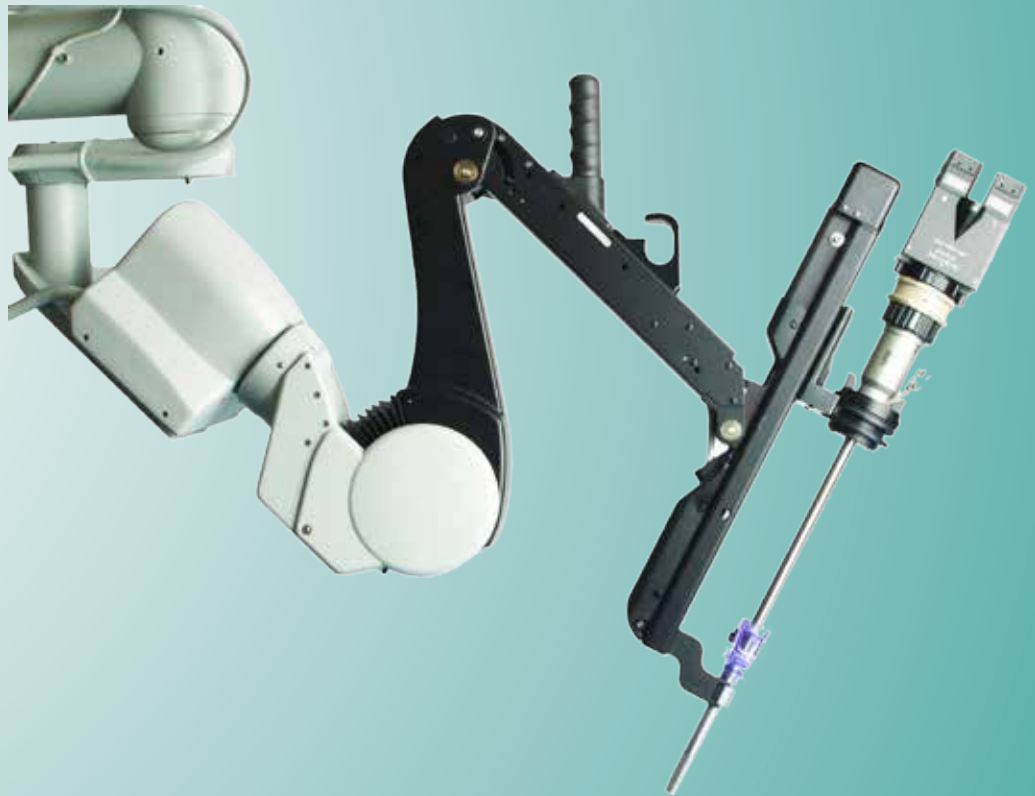


*HUMAN COMPASSION*  
**ROBOTIC PRECISION**

*COMPLEX OPERATIONS ARE MADE EASIER AND SAFE*

# WHAT IS MINIMALLY INVASIVE ROBOTIC SURGERY?

Minimally invasive surgery means that traditional large open incisions are not necessary. Instead, small incisions are made to access the area of the body requiring treatment so that surgeons specially trained in laparoscopic techniques can use tiny devices containing cameras to view the area, manipulate the tissue and perform the necessary surgical intervention. Taking that one step further is robotic surgery in which the surgeon views the body's intricate anatomy under high-powered magnification while using the robot's superior tools and maneuverability, smaller and more flexible than the human hand, at a separate console to perform the entire procedure. The addition of robotic technology provides surgeons with revolutionary instruments enabling them to perform more complex procedures using a minimally invasive approach than ever before.



## WHAT IS ROBOTIC SURGERY?

The da Vinci Robotic Surgical System is designed to provide surgeons with enhanced capabilities, including high-definition 3D vision and a magnified view. The surgeon controls the robot as it translates his or her hand movements into smaller, more precise movements of tiny instruments inside the patient's body.

Though it is often called a robot, it cannot act on its own. Instead, the surgery is performed with unmatched precision entirely by the surgeon. Together, the robotic technology, highly skilled surgeon and surgical team perform complex procedures through just a few tiny openings.



# WHAT ARE THE BENEFITS OF ROBOTIC SURGERY COMPARED WITH TRADITIONAL (OPEN) METHODS OF SURGERY?

Benefits experienced by patients may include:

- Significantly less pain
- Less blood loss and fewer blood transfusions
- Minimally invasive surgical option for women with large, numerous or difficult to access fibroids
- Fewer complications and risk of infection
- Shorter hospital stay
- Faster recovery and return to normal activities
- Small, dime-sized incisions for minimal scarring

Surgeries that can be performed

- GI Cancer (eg. oesophagus, stomach, liver, pancreas, intestine, uterus, kidney, prostate)
- Hysterectomy (Removal of the uterus)
- Bariatric Surgery (Surgery for Obesity & Diabetes)
- Hernia Repairs (inguinal / incisional)
- Cholecystectomy (Gallbladder removal)
- Living Donor Liver Transplantation



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