

# Fellowship in Robotic Surgery (FRS)

*"We are committed to upgrade surgeon's skill beyond Limits of the Human Hand"*

Five days intensive true "Hands On" Robotic Surgery Training for General Surgeon, Gynecologist, Urologist, Cardiac Surgeon and Pediatric Surgeon.



Despite the fast growth of robotic surgery and its clinical application, this field is still at an early stage because of lack of Good training institute. World Laparoscopy hospital, Gurgaon, Provide "Hands On" robotic surgery training on real da Vinci® high definition four arm most advanced surgical robot. This course will introduce safe robotic surgical practice to robotic surgeons, including gynecologists, general or colorectal surgeons, senior surgical residents, and MIS or colorectal and cardiothoracic fellows. Focus will include set-up and challenges unique to working with a robotic surgical system. This course will consist of a hands-on animate lab in which participants will receive instruction by experts in various robotic techniques and procedures, including foregut, bariatric, renal, colorectal, hepato-biliary, solid-organ, and revisional surgery

## Admission

World Laparoscopy hospital is the only institute in the World to confer Fellowship in Robotic Surgery (FRS) "Hands On" robotic surgery training on real da Vinci® high definition four arm most advanced surgical robot of the world.



Fellowship in Robotic Surgery (FRS) Hands On Course on da Vinci® Surgical System

## University Robotic Surgery Fellowship Recognized by World Association of Laparoscopic Surgeons

It is an established fact that robotic surgery is the only immortal and ultimate future of minimal access surgery. Within the next few years robotic surgery is going to completely replace the conventional surgery, due to fact that high precision possible with robotic surgery is beyond the reach of human hand. It is the right time now for every laparoscopic surgeon and gynecologist to make themselves ready for this extraordinary highly skilled robotic surgery.

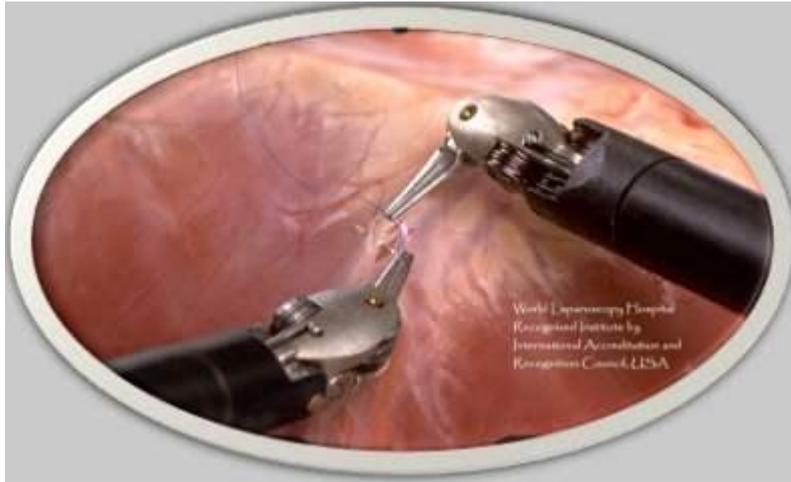
Most of the standard laparoscopic procedures may be performed more quickly and easily using the *da Vinci* Surgical System. This is because the *da Vinci* System delivers improved surgical outcomes while maintaining the same "look and feel" of open surgery. Standard laparoscopy uses small incisions to insert long-shafted instruments, but has certain limitations when the procedure, patient's anatomy, ergonomics or condition is challenging or complex.



The faculty [Prof. R. K. Mishra](#) is the Master Minimal Access Surgeon (M.MAS) from Ninewells Hospital and Medical School, United Kingdom, and **Trained in Robotic Surgery from Harvard Medical School, Boston, USA.** With extensive experience in robotic-assisted laparoscopic reconstructive and extirpative procedures, at World Laparoscopy Hospital he is conducting live operations and running didactic and laboratory sessions to teach advanced Robotic Surgery. A hands-on animal laboratory session will help participants interested in all the specialty of surgery to practice and adapt these highly advanced robotic principles to their area of surgical expertise. This robotic surgery training is designed in such a way that at the end of training surgeon can perform robotic surgery on their patient with confidence. They will also get an extraordinary university qualification **Fellowship in Robotic Surgery (FRS).**

World Laparoscopy Hospital is only specialized institute in the World providing Fellowship in Robotic Surgery (FRS). This "Hands On" robotic course is for surgeons and gynaecologist who are interested in learning techniques for performing robotic-assisted laparoscopic procedures. The techniques demonstrated are applicable to various surgical fields such as pediatric surgery, Urology, gynecology and general surgery. The training is based on didactics, videos, surgery observation and hands-on animal laboratory sessions.

Robotic surgery is one of the leading medical advances in minimally access surgery and is the next real future of advanced surgery. The da Vinci ® Surgical System is an enhanced computer which offers the surgeon high-definition 3D vision, greater precision and dexterity, and superior ergonomics, allowing the surgeon to perform beyond the limitations of human performance.



For surgeons who have also previously trained on da Vinci ®, and would like to work on their technique, we offer a procedure refinement course on a porcine model. We also offer an advanced GYN, Urologic and General surgery Super Users Course for advancing your technique. This course includes didactics, and a live procedure with our advanced robotic surgeon.

This training program is designed for laparoscopic surgeons and gynecologist. Basic laparoscopic skills are highly recommended before this course.

#### Course Objectives

The da Vinci Si System retains and builds on the core technology of advanced 3D HD visualization with up to 10x magnification and an immersive view of the operative field with endoWrist instrumentation with dexterity and range of motion far greater than even the human hand. Intuitive Motion technology, which replicates the experience of open surgery by preserving natural eye-hand-instrument alignment and intuitive instrument control. Together, these technological advancements provide unparalleled precision, dexterity and control that enable a minimally invasive approach to many complex surgical procedures. The core objective of this course is to:

- To become familiar with the function and operation of the da Vinci® Surgical System
- To become familiar with the ergonomics of the da Vinci® Surgical System robot and the available robotic instrumentation
- To understand the selection process for patient position, surgical team position and surgical approaches
- To become familiar with the technique of robotic-assisted intracorporeal suturing and knot tying
- To learn "tricks of the trade" to make laparoscopic reconstructive procedures more efficient without much complication.
- To learn robotic tissue dissection techniques using monopolar bipolar, harmonic and plasma kinetic energy in robotic surgery.
- To learn intracorporeal suturing and knotting to perform robotic surgery
- To learn scientific port position to do proper docking during robotic surgery
- To learn baseball diamond concept of port position of robotic surgery
- To learn ergonomic principle of robotic surgery for proper and trouble free surgery.

- To learn bowel anastomosis and tremor free pyeloplasty and cardiac bypass using da Vinci robot

## Overview and Course Agenda



Traditional laparoscopic surgery has never been widely used except for routine procedures. Only a selected group of highly skilled surgeons attempt complex procedures with great struggle using this approach. The *da Vinci* Surgical System allows surgeons to perform complex procedures with small learning curve using a robotic minimally invasive approach – routinely and with confidence surgeon can perform most of the minimal access surgery.

### Overview

All participants will be trained in the following:

To procedure pre-planning

- How to do proper operative room setup
- How to do patient preparation and positioning
- Fundamentals of da Vinci® Surgical System components and instrumentation
- Training of intra-corporeal suturing and knot tying
- Learn micro dissection by robot
- Learn "tricks of the trade" tips for efficient surgery

Surgery You Can Practice During Robotic Training at World Laparoscopy Hospital

Urology:

Prostaectomy, Nephrectomy, Partial nephrectomy, Pyeloplasty, Cystectomy, Donor nephrectomy, Ureterolithotomy, Pelvic lymphadenectomy, Adrenalectomy, Cystocele repair, Excision of renal cyst, Lymphadenectomy, Testicular resection, Renal cyst decortication, Ureteral transplant, Nephropexy, Ureterectomy, Rectocele repair, Varicocele, Ureteroplasty, Ureteral implantation, Vasovasostomy

Gynecology:

Hysterectomy, Myomectomy, Sacrocolpopexy, Pelvic lymphadenectomy, Tubal reanastomosis, Vaginal prolapse repair, Dermoid cyst, Endometrial ablation, Oophorocystectomy, Oophorectomy, Ovarian cystectomy, Ovarian transposition, Salpingectomy, Salpingo-Oophorectomy, Colposuspension (Burch), Tubal ligation, Tuboplasty

Cardiotharacic:

Mitral Valve Repair & Replacement, Single Vessel Beating Heart Bypass, Multi-Vessel Beating Heart Bypass, Single Vessel Arrested Bypass, Multi-Vessel Arrested Heart Bypass, Ima Harvesting,

Coronary Anastomosis, Atrial Septum Aneurysm, Atrial Septal Defect Repair, Tricuspid Valve Repair, Thrombectomy, Thymectomy, Esophagectomy, Pericardial Window, Lobectomy, Pneumonectomy, Pacemaker Lead Implantation, Mediastinal Resection, Pulmonary Wedge Resection

General surgery:

Gastric Bypass, Nissen Fundoplication, Heller Myotomy, Gastrectomy, Colon Resection, Thyroidectomy, Arteriovenous Fistula, Toupet, Pancreatectomy, Adrenalectomy, Hemi-Colectomy, Sigmoidectomy, Splenectomy, Pyloroplasty, Gastroplasty, Appendectomy, Intra-rectal Surgery, Bowel Resection, Lumbar Sympathectomy, Liver Resection, Cholecystectomy, Hernia Repair

## Course Agenda

<b>Day One of Robotic training at World Laparoscopy Hospital</b>	
<b>9:30 -</b>	Registration
<b>9:45 am</b>	Program overview/objectives of Robotic Training
<b>10:00 -</b> <b>11:30 am</b>	Introduction of Robotic Surgery its Advantage and Disadvantage, Patient selection, Indication and Contraindication.
<b>11:30 -</b> <b>12:00 pm</b>	Coffee Break
<b>12:00 -</b> <b>01:30 pm</b>	Ergonomics, Instrument designing and Working Principles of Robotic Arm of da Vinci® Surgical System - OT session
<b>01:30 -</b> <b>02:30 pm</b>	Lunch Break
<b>02:30 -</b> <b>04:00 pm</b>	Ergonomics, designing and Working Principles of Robotic Arm of da Vinci® Surgical System - OT session
<b>Day Two of Robotic training at World Laparoscopy Hospital</b>	
<b>10:00 -</b> <b>11:30 am</b>	Baseball Diamond Concept of Port Position used in Robotic Surgery and Docking Principle of da Vinci Robot
<b>11:30 -</b> <b>12:00 pm</b>	Coffee Break
<b>12:00 -</b> <b>01:30 pm</b>	Dissection Technique of Robotic Surgery and Demonstration of Various energy sources and method of using energy in Robotic Surgery
<b>01:30 -</b> <b>02:30 pm</b>	Lunch Break
<b>02:30 -</b> <b>04:00 pm</b>	Ergonomics, Designing and Working Principles of Robotic Cart and Robotic Console of da Vinci® Surgical System OT session Hands On and method of using motion sensor technology to overcome loss of tactile feedback
<b>Day Three of Robotic training at World Laparoscopy Hospital</b>	
<b>10:00 -</b> <b>11:30 am</b>	Troubleshooting in Robotic Surgery and strategy taken in case of emergency
<b>11:30 -</b> <b>12:00 pm</b>	Coffee Break
<b>12:00 -</b> <b>01:30 pm</b>	Hands On practice of Hand Eye Coordination Practice on Various inanimate models, and other innovative methods to teach

<b>01:30 - 02:30 pm</b>	Lunch Break
<b>02:30 - 04:00 pm</b>	Hands On practice of Robotic Dissection Technique and practice of dissection using energy sources
<b>Day Four of Robotic training at World Laparoscopy Hospital</b>	
<b>10:00 - 11:30 am</b>	Hands On practice of intracorporeal Robotic Surgeons Knot
<b>11:30 - 12:00 pm</b>	Coffee Break
<b>12:00 - 01:30 pm</b>	Hands On practice of intracorporeal Tumble Square Knot and Continuous Suturing
<b>01:30 - 02:30 pm</b>	Lunch Break
<b>02:30 - 04:00 pm</b>	Hands On practice of All type of Robotic Suturing and Knotting used for Bowel Anastomosis, Pyeloplasty, Myomectomy
<b>Day Five of Robotic training at World Laparoscopy Hospital</b>	
<b>10:00 - 11:30 am</b>	Hands on Live Surgery Practice for Surgeons and Gynecologists according to specialty of Surgeon, Gynecologist, Urologist and Cardiothoracic Surgeon
<b>11:30 - 12:00 pm</b>	Coffee Break
<b>12:00 - 01:30 pm</b>	Hands on Live Surgery Practice for Surgeons and Gynecologists according to specialty of Surgeon, Gynecologist, Urologist and Cardiothoracic Surgeon
<b>01:30 - 02:30 pm</b>	Lunch
<b>02:30 - 04:00 pm</b>	Hands on Live Surgery Practice for Surgeons and Gynecologists according to specialty of Surgeon, Gynecologist, Urologist and Cardiothoracic Surgeon

## Registration and Contact

### Fees

5000 USD for Overseas candidate and 2,00,000 Rupees for Indians. Lunch, study materials is catered for the host

Evaluation:

During the programme of da Vinci® Surgical System training, trainees will be evaluated from staffs of the Government Recognized University concerning working ability and attitude and MCQ test. At the end of the programme, they will receive a certificate of attending.

Certification

Certificate of da Vinci® Surgical System robotic training will be awarded by Government Recognized University.

## **Information and registration**

Interested Surgeons can get themselves registered by sending email directly to ([admission@laparoscopyhospital.com](mailto:admission@laparoscopyhospital.com))  
There is initial registration charge of 5000 rupees.  
Rest of the fee will be payable at the time of joining the course.  
This initial Registration charge will be deducted from the total fee.

### **World Laparoscopy Hospital**

Cyber City, DLF Phase II, Gurgaon, 122 002, India. Phones: +91(0)9811416838,  
(919899608251)

Email: [admission@laparoscopyhospital.com](mailto:admission@laparoscopyhospital.com)

**“This program helps surgeons to adapt to the real world of robotic assisted endoscopic surgery”**