



GHA
GLOBAL HEALTHCARE
ACADEMY

Aster
HOSPITAL

ROBOTICS IN GASTROINTESTINAL

HANDS-ON CME COURSE BY GLOBAL HEALTHCARE ACADEMY



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ABOUT GHA

Global Healthcare Academy (GHA) is India's first Med Ed Tech Academy. GHA has been instituted with a mission to develop Competent and Compassionate Human Resources for the Healthcare sector. GHA has adopted Technology as an enabler in every learning process. Our Core purpose is to bridge the skill & knowledge gap between formal education and needs of the Healthcare Industry. GHA has 06 verticals: (1) Continuing medical education for doctors and other healthcare professionals. (2) Skill development for young aspirants and upskilling, in the paramedical and nursing. (3) Promoting select university courses for their innovativeness and employability potential. (4) Global Healthcare Publishing (GHP) and Global Healthcare Journals (GHJ) – It has been instituted to assist the scientific community in publishing journals of significant discoveries. (5) Global Lawyers for Doctors. (6) Conferences.

The distinguishing features of GHA training include the following: Intense collaboration at every stage between practitioners and tutors – from conception and formulation of training programmes; enlisting of faculty with sufficient work experience; case-based learning from real-life situations and practice-oriented learning methodologies. GHA is lead, managed, and advised by reputed Doctors and Healthcare professionals.

THE COURSE OVERVIEW

The desired result from this educational activity is that the learner increases or enhances his knowledge and competence in GI robotic surgery including discussing the surgical technique for safe and effective robotic surgery, indications and contraindications, and methods to manage complications.

Module 1

Introduction to Robotic Program

- Fundamentals of Robotic Surgery (FRS)
- Human Factors: Situational Awareness in robotic OR
- Human Factors: Errors & Violations

Module 3

Technical skills development

- Dry lab (skill development model)
- Retractor setting on Mannequin
- Simulation Skill Development

Module 2

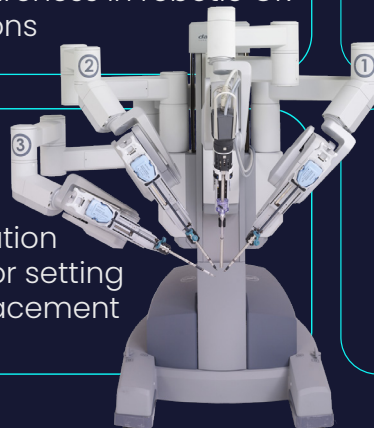
Robot set-up

- Start up and calibration
- Docking sequence, Instrumentation
- Types of retractors and retractor setting
- Patient cart positioning, port placement
- Troubleshooting

Module 4

Non-Technical Skills development

- Team Training Workshop
- Simulation Team Training
- Briefing & Debriefing
- Communication Skill Development



ADVANCE YOUR SKILLS WITH DA VINCI ROBOT'S FIRM SUPPORT

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Innovations in robotic technology are transforming the way surgeons operate in the 21st century. Robotic surgical platforms grant surgeons access to modern-world defining robotic engineering and computer programming, which enhance the surgeon's operative view and augment his or her manual dexterity. These surgical tools were developed with the goal of helping surgeons overcome the limitations of laparoscopy and to facilitate the broader adaptation of minimally invasive surgery to include more complex abdominal procedures. The technologic superiority of robotic surgical platforms over existing open and laparoscopic instruments is undisputed, with the potential to harvest significant advantages for the surgeon and, ultimately, translate them for improved patient outcomes. As with all new technology, however, robotic surgery poses novel challenges for general surgeons as we begin to define its role in our clinical practices, discern its optimal application for our patients, and determine its benefits and disadvantages. Familiarity with robotic surgical systems, the current uses of their optimum utilization, and potential future applications can facilitate the employment of robotic surgical platforms for gastrointestinal procedures. In this module, we will cover the development of robotic surgical technology and the inherent advantages of da Vinci Surgical Systems. The results of existing studies focus on the clinical outcomes of these select robotic gastrointestinal surgeries alone and in comparison to open and laparoscopic approaches. Finally, the module will highlight a few distinct features of robotic surgery and possible future applications.



SURGEON CONSOLE

The surgeon console is where your surgeon sits during the procedure, has a crystal-clear 3DHD view of your anatomy, and controls the instruments.



PATIENT CART

The patient-side cart is positioned near the patient on the operating table.



VISION CART

The vision cart makes communication between the components of the system possible and provides a screen for the care team to view the operation.

Today, the application of robotic surgery in gastrointestinal surgery is increasing as one of the most promising types of minimally invasive surgeries. Minimally invasive surgery is now widely used for gastrointestinal cancer, including esophageal cancer, gastric cancer, hepatopancreatobiliary cancer, and colorectal cancer, and comprises endoscopic surgery such as laparoscopic surgery and thoracoscopic surgery. In the field of gastrointestinal cancer, robotic surgery is performed using a robot-assisted surgery system. In this system, the robot does not operate automatically but is controlled by the surgeon. Currently, the surgery assistant robot used in clinical practice around the world is the leader-follower type of surgery assistant robot, the da Vinci Surgical System.



COURSE DIRECTOR



DR. JAGANNATH DIXIT
SENIOR CONSULTANT
ASTER GROUP OF HOSPITAL

Dr. Jagannath Dixit is a renowned Surgical Oncologist, and he joins Aster Hospitals, Bengaluru as a Senior Consultant in Surgical Oncology. He did his MBBS from KIMS, Bengaluru, and MS (General Surgery) in 1995 from Bengaluru Medical College. Then he completed M.Ch. from the prestigious Kidwai Memorial Institute of Oncology, Bengaluru in 2000. Dr. Dixit's commitment to surgical excellence and patient-centric care is evident through his additional credentials, including FIAGES (Fellow of the Indian Association of Gastrointestinal Endo Surgeons), FICS (Fellow of the International College of Surgeons), and FMAS (Fellowship in Minimal Access Surgery).

He has more than 25 years of experience in the field of surgical oncology, with a specialization in Organ-Specific surgical work, especially in the Gastrointestinal system. His main passion is Minimally Invasive Surgery and Robotic Surgery. It has given him a good platform for teaching, as a mentor and demonstrated complex surgeries with greater efficiency. His initial learning was as a Robotic Surgeon at the Samsung Medical Centre, South Korea in 2015, Asan Medical Center, South Korea in 2016, then National University Hospital, Busan, South Korea in 2017, and subsequent training in China and Japan in 2018 and 2020. He was trained in HIPEC at the National Cancer Institute in Milan, in 2016.



Dr. Jagannath Dixit is a highly accomplished and dedicated medical professional with a diverse and extensive background in the field of oncology. He embarked on his medical journey in 2001 with a PB Desai fellowship at Tata Memorial Hospital in Mumbai. Following this, he served as a consultant at Malanad Hospital and Institute of Oncology in Shivamogga, Karnataka, from 2003 to 2007. Dr. Dixit's career then progressed to a faculty position at Vydehi Medical College and Research Centre in Bengaluru, concurrently consulting at BGS Global (Glen Eagle) Hospital in Bengaluru until 2011. Since 2011, he has been a Senior Consultant at HCG Hospitals in Bengaluru, showcasing unwavering dedication to the field till Nov 2023.

Dr. Dixit has an impressive record, having successfully completed over 500 robotic surgeries and more than 150 laparoscopic surgeries for upper and lower gastrointestinal tract complications. Recognized for his meticulous attention to detail, accurate diagnoses, and compassionate patient care, he has adeptly handled numerous complex medical cases.



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