

# ROBOTICS IN URO-ONCOLOGY

HANDS-ON CME COURSE AND CASE OBSERVERSHIP



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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 urologic 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 Operation Theatre
- Human Factors: Errors & Violations

### 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 3 – Technical skills development

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

### Module 4 – Non-Technical Skills development

- Surgical case observation Development of competencies and skills to safely operate the Intuitive Surgical DaVinci Robot
- Team Training Workshop
- Simulation Team Training
- Briefing & Debriefing



# LEARNING OBJECTIVES

After completing the course, the learner should be able to become familiar with Robotic set up, instruments , it's use, docking of robotic system:



Describe the surgical steps involved with the safe performance of commonly performed robotic urologic surgery.



State the indications and contraindications for the robotic approach to urologic surgical procedures.



Identify errors that can occur with the system during robotic surgery conditions.



Describe the steps involved with safe operation of the daVinci Surgical System With Case Observations (Intuitive Surgery Inc, Sunnyvale, CA)



Describe complications that can occur during urologic robotic surgery and describe methods to avoid and manage the complications.

## ADVANCE YOUR SKILLS WITH DA VINCI ROBOT'S FIRM SUPPORT

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The Da Vinci surgical system gives you an advance set of instruments for performing robotic-assisted minimally invasive surgery. The term "robotic" often misleads people. Robots don't perform surgery. Surgeons perform surgery with Da Vinci by using instruments via a console. The Da Vinci system translates your hand movements at the console in real time, bending and rotating the instruments while performing the procedure. The tiny wristed instruments move like a human hand, but with a greater range of motion. The da Vinci vision system also delivers highly magnified, 3D high-definition views of the surgical area. The instrument size makes it possible for surgeons to operate through one or a few small incisions.



### 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.

## COURSE DIRECTOR



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