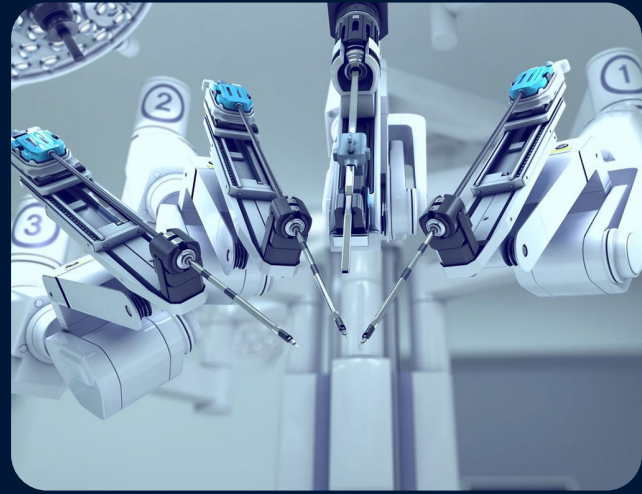


# HEAD & NECK ROBOTIC SURGERY

The Robotic surgery, or robot-assisted surgery, allows surgeons to perform many types of complex procedures with more precision, flexibility and control than is possible with conventional techniques. Robotic surgery is the most advanced form of minimally invasive surgery. Robotic surgery has been rapidly adopted by hospitals globally for use in the treatment of a wide range of conditions. The most widely used clinical robotic surgical system (Intuitive da Vinci Robotic System) includes a camera arm and mechanical arms with surgical instruments attached to them. The surgeon controls the arms while seated at a computer console near the operating table. The console gives the surgeon a high-definition, magnified, 3-D view of the surgical site.



A certified robotic Surgeon can perform Head and Neck surgical procedures with enhanced precision, improved dexterity and allowing them to optimise treatment compared with traditional techniques and other minimally invasive procedures. Using robotic surgery, surgeons can perform delicate and complex procedures that may have been difficult or impossible with other methods. The journey of a certified Robotic Head and Neck Surgeon starts with understanding and getting familiar with the advanced systems, followed by rigorous skill drill exercises and on-site training leading to a formal assessment to be certified as a Trainee Surgeon. After accomplishing this the surgeon with adequate experience and exposure to open surgery can apply for dedicated proctorship program under the guidance of Senior Robotic Surgeons to master the art of robotic surgery and to demonstrate adequate proficiency. After completing the equivalency pathway training the surgeon is given the coveted tag of a Robotic Surgeon with permanent credentialing to use the advanced robotic system as a console surgeon.

## Course Director



**Dr (Prof) U S Vishal Rao**  
Head, Department of Head & Neck  
Surgical Oncology, HCG Hospitals Bengaluru

He is an eminent clinician and researcher. He is one of the pioneers of Head and Neck Robotic Surgery in India. He has been at the forefront of innovations and has worked explicitly on various surgical techniques and robotic platform. He is a member of consultative group to Principal Scientific Advisor, Govt of India.

## Course Faculty



**Dr. Anand Subash**  
Head & Neck Surgical Oncologist  
and Robotic Surgeon &  
HCG Hospitals Bengaluru

He is among the very few Head and Neck Surgeons in India who have been given permanent credentialing as a console surgeon through the equivalency pathway. His keen area of interest include Oropharyngeal Cancers, Thyroid and Laryngeal Cancers.



**Dr. Shalini Thakur**  
Consultant, Department of  
Head & Neck Surgical Oncology,  
HCG Hospital Bengaluru

She is an experienced and dedicated oncologist with over 15 years of experience in oral onco surgery and rehabilitation. She is highly knowledgeable in her field and is passionate about providing her patients with the best care possible. With her clinical expertise, she is highly skilled in providing comprehensive and compassionate care to her patients. She is also actively involved in research projects to further improve the understanding of head and neck cancer and to help those affected by it.

## Learning Objectives:

- Defining the robotic surgical platform, its features, setup and organisational requirements, and troubleshooting measures.
- Developing the psychomotor skills required to safely operate the da Vinci robotic surgical platform  
Leveraging surgical case observation in defining how the robotic surgical platform is integrated into the operating room and how the platform can be best utilized in clinical practice.
- Developing clinical efficiency through comprehensive team training
- Guidance for Equivalency training / Fellowship opportunity

## Learning Methodologies:

During this program, your experience will include:

- Exposure to discussions on robotic technology, human factors and surgical evaluation tools
- Robotic surgical platform training
- Hands-on simulation, dry lab experiences
- Skill drill exercises
- Surgical case observation
- Development of competencies and skills to safely operate the Intuitive Surgical DaVinci Robot

## Course Contents:

Pre-Course Work

- Theoretical knowledge - [www.davincisurgicalcommunity.com](http://www.davincisurgicalcommunity.com)
- Video review - Dr. J Scott Magnuson - <https://www.youtube.com/watch?v=w3qJ3vK25Gw>  
(You can use other videos also)
- Text books

## Course Modules:

### Module 1 - Introduction to Robotic Program

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

### Hand's on Practice Sessions:

- Patient positioning & Retractor setting
- Robotic docking sequence
- Surgical procedure setup & facilitation
- Surgical teams' role & responsibilities
- Human Factors: Team dynamics

### Assessment:

- Theoretical knowledge
- Technical Skills test

### Module 3 - Technical skills development

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

### Module 4 - Non-Technical Skills development

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

**Certification GHA, INTUITIVE**

**Global Healthcare Academy (GHA)**

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