

# CERTIFIED FELLOWSHIP IN URO ONCOLOGY

[Syllabus Approved by Board of Studies, Medical & Health Sciences]

<b>Programme Code</b>	:	HLTH14A24
<b>Programme Details</b>	:	2-YEARS HBNI CERTIFIED FELLOWSHIP IN URO ONCOLOGY
<b>Programme Learning Outcomes (PLOs / PSOs)</b>	:	MENTIONED [COMMON FOR ALL 2 YRS HBNI CERTIFIED FELLOWSHIPS OFFERED AT TMC]
<b>Eligibility Criteria</b>	:	MCH/DRNB (SURGICAL ONCOLOGY) OR MS/DNB (GENERAL SURGERY).
<b>Duration of the Course</b>	:	2 YEARS
<b>Programme Structure (Credit-Based)</b>	:	NA
<b>Detailed Course Syllabus</b>	:	ATTACHED
<b>Teaching–Learning Methodologies</b>	:	2 YEARS PROGRAM
<b>Examination &amp; Evaluation System</b>	:	ANNUAL APPRAISAL FOLLOWED BY UNIVERSITY FINAL EXAMINATION
<b>Internship / Project / Dissertation Guidelines</b>	:	NA
<b>Program In Charge</b>	:	PROF. GAGAN PRAKASH ( <a href="mailto:gagan2311@gmail.com">gagan2311@gmail.com</a> )

## CERTIFIED FELLOWSHIP (URO ONCOLOGY)

*Programme Code: HLTH14A24*

*Programme Outcome:*

- The HBNI Fellowship Programmes at Tata Memorial Centre are designed to develop competent, ethical, and academically oriented healthcare professionals with advanced knowledge and skills in their respective specialties and subspecialties.
- At the completion of the fellowship, candidates are expected to demonstrate excellence in clinical practice, patient-centered care, multidisciplinary teamwork, communication, professionalism, and evidence-based decision-making.
- Fellows shall acquire the ability to independently evaluate, diagnose, plan, and manage patients while adhering to institutional protocols, quality standards, patient safety practices, and ethical principles in healthcare delivery.
- The fellowship programmes also aim to foster academic growth, research aptitude, lifelong learning, and leadership qualities among trainees.
- Fellows are expected to actively participate in teaching, seminars, journal clubs, conferences, audits, and research activities, thereby contributing to the advancement of medical science and institutional development.
- Upon successful completion of the programme, the fellow should be capable of functioning independently as a skilled specialist/subspecialist with competence in clinical services, academics, research, and collaborative healthcare practice in tertiary care and oncology-focused settings.

# DETAILED SYLLABUS

## Program Philosophy

The HBNI Fellowship in Uro-Oncology is designed as an integrated, longitudinal 2-year training program with continuous exposure to all genitourinary malignancies throughout the fellowship period.

The trainee will progressively evolve from:

Observation → Assisted participation → Independent clinical decision-making → Supervised operative autonomy.

## Program Duration

- Duration: 2 Years (24 Months)
- Training Format:
  - Integrated clinical exposure across all uro-oncology services
  - Longitudinal operative training
  - Concurrent academic and research activities
  - Multidisciplinary participation throughout training

## Overall Training Goals

At the end of training, the fellow should be able to:

1. Independently evaluate and manage uro-oncology patients
2. Understand multidisciplinary management strategies
3. Perform standard and advanced uro-oncological procedures under supervision
4. Interpret oncological imaging and pathology
5. Participate effectively in tumor boards
6. Conduct and interpret clinical research
7. Teach residents and allied healthcare personnel
8. Deliver holistic cancer care including survivorship and palliative care

## Disease Sites Covered Throughout the 2 Years

- Prostate cancer
- Bladder cancer
- Kidney cancer
- Upper tract urothelial carcinoma
- Testicular cancer
- Penile cancer
- Adrenal tumors
- Rare GU malignancies

## **Clinical Training**

### **A. Outpatient Services**

- New patient evaluation
- Follow-up clinics
- Survivorship clinics
- High-risk clinics
- Counseling sessions

#### **Competencies:**

- Clinical examination
- Risk stratification
- Treatment planning
- Counseling regarding surgery/systemic therapy/radiotherapy
- Follow-up protocols
- Survivorship care

### **B. Inpatient & Perioperative Care**

- Preoperative optimization
- ICU care
- Postoperative management
- ERAS protocols
- Complication management

#### **Competencies:**

- Fluid/electrolyte management
- Nutrition in cancer surgery
- Stoma care
- Management of postoperative complications
- Clavien-Dindo grading

### **C. Multidisciplinary Oncology**

Mandatory participation in:

- Tumor boards
- Joint clinics
- Radiology review meetings
- Pathology discussions

### **D. Rotational Exposure (optional):**

- Medical oncology
- Radiation oncology
- Nuclear medicine
- Pathology
- Radiology
- Palliative medicine

### **E. Exchange for 1-2 months with other TMC center fellows**

## **Surgical Training**

The fellowship provides graded operative responsibility.

### **A. Endoscopic Procedures**

- Diagnostic cystoscopy
- TURBT
- Channel TURP in oncological settings
- Ureteroscopy for UTUC evaluation
- Stent placement

### **B. Open Surgical Oncology**

- Radical cystectomy
- Radical nephrectomy
- Partial nephrectomy
- RPLND
- Penectomy
- Inguinal lymphadenectomy
- Adrenalectomy

### **C. Minimally Invasive & Robotic Surgery**

- Robotic radical prostatectomy
- Robotic cystectomy
- Robotic partial nephrectomy
- Laparoscopic nephrectomy
- Robotic RPLND

#### **Training Focus:**

- Port placement
- Docking
- Bedside assistance

### **D. Reconstructive Uro-Oncology**

- Ileal conduit
- Orthotopic neobladder
- Uretero-enteric anastomosis
- Complex urinary reconstruction

## **Academic Curriculum**

### **Core Knowledge Areas:**

- Cancer biology
- Molecular oncology
- Tumor immunology
- Precision medicine
- CT/MRI interpretation
- mpMRI prostate

- PSMA PET
- Histopathological classification
- Variant histology
- Biomarkers
- Clinical trial interpretation
- Guideline appraisal
- Meta-analysis basics
- Critical appraisal

## **Guideline-Based Training**

Regular structured teaching based on:

- EAU Guidelines
- NCCN Guidelines
- AUA Guidelines

## **Research Training**

Research Curriculum Topics:

- Biostatistics
- Study design
- Clinical trials
- Survival analysis
- Database management
- Research ethics
- Manuscript writing

## **Teaching Responsibilities**

The fellow will participate in:

- Resident teaching
- Journal clubs
- Case discussions
- Allied healthcare education

## **Logbook Requirements**

Mandatory maintenance of:

- Surgical logbook
- Academic presentations
- Conferences attended – Encouraged to present Posters, Video and Paper presentations- USICON, USI UROONCOCON, SOGOCON and other national and international
- Conferences
- Research activities
- Publications
- Complications and outcomes

## **Academic Activities**

- Tumor board

- Journal club
- Grand rounds
- Radiology meeting
- Pathology review
- Morbidity & mortality meeting
- Research review meeting
- Internal assessment
- Research presentation
- Operative skill assessment

## **Assessment System**

### **A. Subjective Assessment**

- Workplace-based assessment
- Direct observation
- Surgical assessment
- 360-degree feedback
- Academic participation

### **B. Objective Assessment**

- Written examination
- Clinical examination
- Viva voce

## **Expected Surgical Competencies**

- TURBT – Independent
- Radical nephrectomy – Independent
- Radical cystectomy – Assisted to supervised independent
- Urinary diversion – Assisted to supervised independent
- Partial nephrectomy – Assisted to supervised independent
- RPLND – Assisted to supervised independent
- Robotic uro-oncology – Bedside assistance

## **Professional Development**

Training will also focus on:

- Communication skills
- Ethical oncology practice
- Leadership
- Team-based care
- Breaking bad news
- Survivorship counseling

## **Suggested Fellowship Deliverables**

- $\geq 1$  indexed publication
- $\geq 2$  conference presentations

- Structured surgical logbook
- Independent tumor board presentation experience

## **Recommended Learning Resources**

- **Journals:**
  - European Urology
  - Journal of Urology
  - Urologic Oncology
  - BJU International
- **Standard Textbooks:**
  - Campbell-Walsh Urology
  - Hinman's Atlas of Urologic Surgery
  - Smith's General Urology
  - AJCC Cancer Staging Manual