

POST – DOCTORAL FELLOWSHIP PROGRAMME IN
ENDO – UROLOGY

DURATION OF THE COURSE : **ONE YEAR**

SYLLABUS

The basic Knowledge needed to underpin of Endo – Urology will be outlined. This should be used as an indicative guide rather than an exhaustive list. It is assumed that all knowledge obtained during training for M.Ch./DNB Urology will have been retained.

I. ANATOMY

Knowledge

Anatomy of Kidney , Ureter and Retroperitoneum.

Pelvic anatomy with emphasis on the Bladder, Prostate and Urethra.

Clinical skills

- Access to Kidney and the Retroperitoneum including Percutaneous and Laproscopic access.
- Instrumentation of Ureter.
- Principles of Laproscopic access to pelvic organs.

II. PHYSIOLOGY, INSTRUMENTATION AND PHARMACOLOGY

Knowledge

Physiology of Pneumoperitoneum, Pharmacology of drugs used for lithiasis, Bladder over activity, Bladder outflow obstruction. Understanding the operational mechanisms of ESWL, Laser , Lithoclast and other Energy Devices.

Clinical Skills

- Appropriate use of commonly used drugs recognizing common side effects, interactions and contraindications.
- Safe use of all energy devices.

3. SURGICAL PATHOLOGY

Knowledge

Aetiology, Pathology, Investigation and Treatment of Congenital, Traumatic, Inflammatory, Infective and Neoplastic problems of Kidney, Ureter, Bladder, Prostate and Urethra.

4. URO RADIOLOGY AND DIAGNOSTICS

Knowledge

Principles of CT, MRI and Nuclear imaging relevant to General Urology and Endo Urology.

Clinical Skills

- Interpretation of various imaging studies
- Active role in organizing and active participation in Multi Disciplinary Meetings.

5. KNOWLEDGE OF STERILIZATION / DISINFECTION OF INSTRUMENTS AND MAINTAINENCE OF INSTRUMENTS

6. OPERATIVE PROCEDURES

A.Endo-Urology

Knowledge

Knowledge of admission process, indications for surgery, preoperative preparation, outcomes and complications of proposed procedure.

Anatomy relevant to the procedure, steps involved in procedure, potential complications & outcomes of procedure; Likely post operative progress, physiological and pathological changes in condition as a result of this procedure.

Clinical skills

- PCNL – Awareness of access techniques and active participation in the procedure
- Upper Tract Obstruction – Insertion of nephrostomies and ureteric stents
- Ureteroscopy – Ability to safely pass and manipulate ureteroscope both flexible and semirigid scopes. Advanced skills enabling safe treatment of complex urinary calculi.
- Lower urinary tract Endoscope techniques – Use of Various techniques to deal with Bladder outflow obstruction , Bladder Calculi and Urethral problems.

B. Laparoscopy

Techniques for transperitoneal access routes, techniques of Laparoscopic suturing and instruments usage.

Clinical Skills

- Practice in dry lab.
- Active participation in all laparoscopic surgeries in Kidney, Ureter , Badder and Prostate.
- Use of different methods of dissection, methods of vascular control and ability to manage complications and convert to open procedure.

7. BIO STATISTICS

Knowledge

Common statistical methodology, theory and design of clinical trials.

Application of test like multivariate analysis. Chi square analysis etc.

- **Clinical Skill**
- Application of methodology to Clinical setting.
- Active paper submission and participation in regional, national and international meetings.

Training Schedule & Postings

One year Programme

Six months each in Endo -Urology and Laproscopic urology.

Suggested Books

- 1.Cambel – Walsh Urology
- 2.Smiths's Text book of Endo – Urology
- 3.All Urology Journals