

Government Medical College Srinagar
Post-Doctoral Department of Urology, Uro-oncology & Renal Transplantation
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Syllabus for Assistant Professor Urology

1. Basic Sciences Relevant to Urology

- Anatomy of the genitourinary system (kidneys, ureters, bladder, prostate, urethra, penis, testes)
- Physiology of urine formation, micturition, and male reproductive system
- Pathophysiology of urological diseases (UTIs, renal failure, obstructive uropathy, etc.)
- Pharmacology of drugs used in urology (antibiotics, alpha-blockers, 5-alpha reductase inhibitors, chemotherapy)

2. Clinical Urology*

- Urinary Tract Infections (UTIs): Cystitis, pyelonephritis, prostatitis, urethritis
- Obstructive Uropathy: BPH, urethral strictures, ureteropelvic junction (UPJ) obstruction
- Stone Disease: Nephrolithiasis, ureteric stones, medical & surgical management (ESWL, URS, PCNL)
- **Urological Cancers:**
 - Renal cell carcinoma
 - Bladder cancer (TURBT, radical cystectomy)
 - Prostate cancer (screening, biopsy, radical prostatectomy)
 - Testicular cancer (orchietomy, RPLND)
 - Penile cancer

3. Pediatric Urology

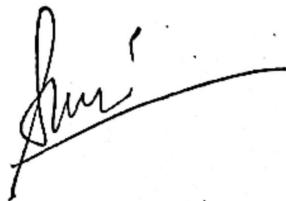
- Congenital anomalies (hypospadias, vesicoureteral reflux, posterior urethral valves)
- Undescended testes (cryptorchidism)
- Neurogenic bladder (spina bifida, myelomeningocele)

4. Andrology & Male Infertility

- Erectile dysfunction (medical & surgical management, penile implants)
- Male infertility (semen analysis, varicocele, azoospermia)
- Peyronie's disease, priapism

5. Reconstructive Urology

- Urethral stricture (urethroplasty, dilation)
- Urinary diversion (ileal conduit, neobladder)
- Genitourinary trauma (renal, bladder, urethral injuries)



6. Minimally Invasive & Robotic Urology

- Laparoscopic nephrectomy, pyeloplasty
- Robotic-assisted prostatectomy (RARP)
- Endourology (URS, PCNL, cystolithotripsy)

7. Renal Transplantation

- Donor & recipient evaluation
- Immunosuppression protocols
- Post-transplant complications

8. Recent Advances in Urology

- Focal therapy for prostate cancer (HIFU, cryotherapy)
- MRI-guided prostate biopsy
- Artificial urinary sphincters & neuromodulation

9. Academic & Research Methodology

- Biostatistics & research methodology
- Thesis & dissertation guidance
- Teaching techniques for medical students/residents
- Recent advances

