

CURRICULUM



MASTERS IN UROLOGY

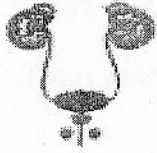
(M.S)

DEPARTMENT OF UROLOGY / NEPHROLOGY & LITHOTRIPSY

Peoples University of Medical & Health Sciences,
Nawabshah, Sindh.

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LITHOTRIPSY

PEOPLES UNIVERSITY OF MEDICAL & HEALTH SCIENCES FOR WOMEN



Five years M.S urology structure training of residency &
table of specification

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F.C.P.S, M.S (Urology)
ASSOCIATE PROFESSOR
Chairman Department of Urology
PUMHS Nawabshah

Dr Muhammad Ali Suhail

Associate professor & head of department
Urology, lithotripsy & Dialysis
PUMHS nawabshah

1/12
31/10/15



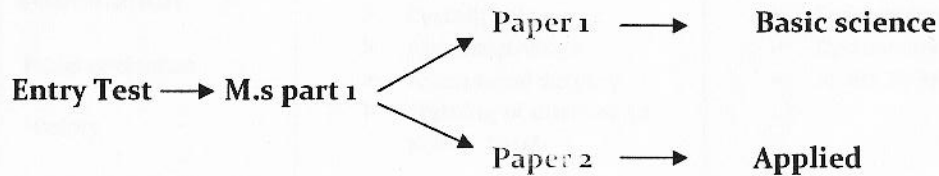
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THE TABLE OF SPECIFICATION, SYLLABI & STRUCTURED PROGRAMME FOR POSTGRADUATE STUDIES

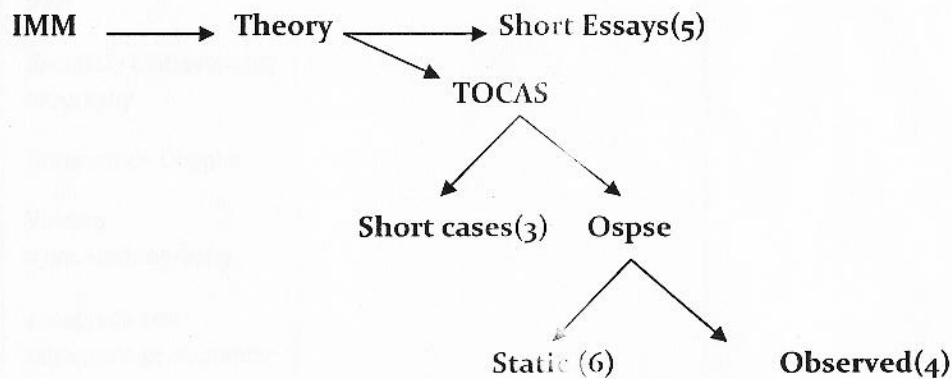
Total years of training → 5 years residency



Residency period 5 years

After R₃ → IMM → R₄₋₅ → last six months rotation to SIUT

R₃ has to clear IMM



M.S Final

PAPER-I	100 single best MCQs
PAPER-II	04 Long Essays Questions
PAPER-III	10 Short Essays Questions



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FIVE YEARS SYLLABI & STRUCTURED TRAINING PROGRAMME FOR M.S UROLOGY

year	Topics	Open procedures	Endoscopic procedures	Log book
R1	1)Urological examination Initial evaluation History Physical examination Urinalysis Cystology of Urine, cystic fluid, prostate Semen analysis (WHO standard) Imaging of the urinary tract Excretory (intravenous) urography Ultrasound+ Doppler Voiding cystourethrography Antegrade and retrograde pyelography Urethrography Computed tomography Megnetic resonance imaging Angiography Radionuclide studies (DTPA, DMSA, MAG3, Frusemide scan 2)urological & urogynea history 3)radio-daignosis of	<ul style="list-style-type: none">➤ Supra pubic cystostomy➤ CVP line➤ Cystolithotomy➤ Abscess drainge➤ Assist renal surgery➤ Training of ultrasound KUB & TRUS	<ul style="list-style-type: none">➤ Assembling of instrument➤ Endourology➤ Cystoscopy➤ Assist TURP	20%



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	<p>urological diseases.</p> <p>4) ABC of Heamodialysis.</p> <p>5)Bio- chemical diagnosis of urological diseases.</p> <p>6)ABC of diabetic & hypertensive nephropathy.</p> <p>7) BPH</p> <p>Epidemiology</p> <p>Anatomy/ natural history</p> <p>Clinical presentation/ scoring system</p> <p>Radiological evaluation</p> <p>Diagnostic tests UFM/ CYSTOMETRY</p> <p>Medical treatment</p> <p>Surgical treatment</p> <p>Surgical treatment therapy</p> <p>Open surgery</p>			
R2	<p>Stone diseases</p> <p>Epidemiology</p> <p>Etiology and pathogenesis of Urolithiasis</p> <p>Risk factors in formation of stone disease</p> <p>Calcium/ oxalate</p>	<ul style="list-style-type: none"> ➤ Open prostectomy ➤ Renal stone surgery open and close 	<ul style="list-style-type: none"> ➤ Renal biopsy ➤ Bilateral retrograde catheterization ➤ Urethral dilatation ➤ PCN 	20%



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metabolism			
Infectious/uric acid stone			
Clinical presentation/ examination			
Laboratory investigation / metabolic Evaluation			
Radiological investigations			
Treatment			
Medical treatment			
ESWL			
Minimal invasive/ Endourological treatment			
Principle of stone fragmentation			
Open surgery			
Follow up/ dietary advise			
Stone analysis			
Basic principles of chemo- Radiotherapy in urinary tract tumours			
Uro-oncology			
Renal cell carcinoma			
Adrenal tumours			
Bladder TCC			
CA prostate			
Testicular tumour			



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	Penile carcinoma Training to perform ESWL			
R3	Female urology Scope / Needs Urinary Incontinence Over Active Bladder Interstitial Cystitis Medical Treatment Surgical Treatment Urethral Stenosis / Bladder Outlet Obstruction Urological Issues in pregnancy Urological Fistulae Diagnostic Procedures Vesico-Vaginal Fistulae Uretero- Vaginal Fistulae Cystocele UFM + cystometry To deal the sticture clinic Uro-Genital trauma	<ul style="list-style-type: none"> ➤ Assist uro-genital trauma ➤ Orchidectomy ➤ Hydrocel ➤ Varicocele low and high liagation ➤ Testicular biopsy ➤ Sextant prostatic biopsy ➤ Surgery of urolithiasis ➤ Assist AVF 	<ul style="list-style-type: none"> ➤ Optical urethrotomy ➤ Cystolitholapaxy ➤ Supra pubic litholapaxy 	20%
R4	Urinary fistulea Nepho cutaneous fistula Pyelo cutaneous fistula	<ul style="list-style-type: none"> ➤ Renalsurgery(tumour ,calculus,Nephrectomy) ➤ AVF ➤ Ochiopexy ➤ Hypospadiis (assist) 	<ul style="list-style-type: none"> ➤ TURP ➤ TURBT ➤ All lower tract endourological procedures 	20%



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	<p>Vesico vaginal fistula</p> <p>Uretio vaginal fistula</p> <p>Andrology</p> <p>Pediatric urology</p> <p>Tumour clinic & followup</p> <p>Congnital disorder of uro-genital system</p> <p>Urinary diversions</p>	<ul style="list-style-type: none"> ➤ Urethral sticture surgery ➤ VVF (assist) ➤ UVF (assist) 		
R5	<p>Rules of percutaneous renal surgery</p> <p>Infertility</p> <p>To run infertility clinic male/female</p> <p>Transplantation & Immunology</p> <p>Erectile dysfunction</p> <p>Current urological</p> <p>Issues of chronic pelvic pain syndrome</p> <p>All urinary tract infection</p>	<ul style="list-style-type: none"> ➤ Urinary diversion ➤ Repair of all fistulea ➤ Urethral End to End anastomosis ➤ Reconstructive surgery ➤ Assist renal transplant(donor &reciepent) 	<ul style="list-style-type: none"> ➤ Upper tract endoscopy ➤ URS ➤ L/C ➤ Endopylotomy ➤ RIRS ➤ PCNL 	20%

SIX MONTHS ROTATION TO SIUT



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Table of specification for MS Urology

S.No	Topic	Percentage *
01	Stone disease and Endo – Urology	
1.1	Epidemiology	15
1.2	Etiology and pathogenesis of Urolithiasis	
1.3	Risk factors in formation of stone disease	
1.4	Calcium/ oxalate metabolism	
1.5	Infectious/uric acid stone	
1.6	Clinical presentation/ examination	
1.6.1	Laboratory investigation / metabolic Evaluation	
1.6.2	Radiological investigations	
1.6.3	Treatment	
1.6.4	Medical treatment	
1.6.5	ESWL	
1.7	Minimal invasive/ Endourological treatment	
1.8	Principle of stone fragmentation	
1.9	Open surgery	
1.10	Follow up/ dietary advise	
1.11	Stone analysis	
02	Uro-Oncology	
2.1	Adrenal carcinoma/ adenoma	
2.2	Clinical Presentation	
2.3	Diagnostic Evaluation	15
2.4	Medical Treatment	
2.5	Surgical Treatment	
2.6	Follow up	



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2.7	Renal cell carcinoma	
2.8	Epidemiology/ Genetics / Classification	
2.9	Etiology / Natural History	
2.10	Clinical Presentation	
2.11	Clinical Examination	
2.12	Diagnostic Evaluation	
2.13	Laboratory Investigation	
2.14	Radiological Investigations	
2.15	Paraneoplastic syndrome	
2.16	Treatment	
2.17	Surgical treatment	
2.18	Immunotherapy	
2.19	Angiogenesis inhibitor	
2.20	Palliative treatment	
2.21	Follow up	
03	Benign prostatic Hyperplasia	10
3.1	Epidemiology	
3.2	Anatomy/ natural history	
3.3	Clinical presentation/ scoring system	
3.4	Radiological evaluation	
3.5	Diagnostic tests UFM/ CYSTOMETRY	
3.6	Medical treatment	
3.7	Surgical treatment	
3.8	Surgical treatment therapy	
3.9	Open surgery	
04	Upper tract transitional cell carcinoma	
4.1	Epidemiology/ incidence	
4.2		



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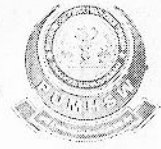


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4.3	Clinical presentation	
4.4	Laboratory radiology /investigation	
4.5	Management	
4.6	Endoscopic / minimal invasive treatment	
4.7	Open Surgery	
	Follow up	
05	Bladder cancer	
5.1	Epidemiology/ genetics	
5.2	Classification / types	
5.3	Clinical presentation	
5.4	Examination	
5.5	Diagnostic evaluation	
5.6	Laboratory investigation	
5.7	Radiological investigation	
5.8	Staging of disease	
5.9	Management	
5.10	Management of superficial disease	
5.11	Management of muscle invasive disease	
5.12	Management of locally advance disease	
5.13	Management of metastatic disease	
5.14	Surgical treatment	
5.15	Chemotherapy/ immunotherapy	
5.16	Radio therapy	
5.17	Bladder re-construction / urinary / diversion	
5.18	Follow up	
5.19		
06	Female Urology	10
6.1		



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6.2	Scope / Needs	
6.3	Urinary Incontinence	
6.4	Over Active Bladder	
6.5	Interstitial Cystitis	
6.6	Medical Treatment	
6.7	Surgical Treatment	
6.8	Urethral Stenosis / Bladder Outlet Obstruction	
6.9	Urological Issues in pregnancy	
6.10	Urological Fistulae	
6.11	Diagnostic Procedures	
6.12	Vesico-Vaginal Fistulae	
6.13	Uretero- Vaginal Fistulae	
6.14	Cystocele	
07	Prostate Cancer	
6.1	Epidemiology/ Genetics	
6.2	PSA	
6.3	Clinical Presentation	
6.4	Clinical Examination including DRE	
6.5	Diagnostic Evaluation	
6.6	Laboratory investigation	
6.7	Radiological investigations	
6.8	Radionucleide Studies	
6.9	Prostatic Biopsy and Staging of disease	
6.10	TNM classification	
6.11	Management of Locally confined disease	
6.12	Surgical Treatment	
6.13	Hormonal Treatment	
6.14		

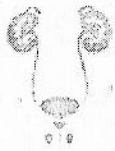


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6.15	Radiotherapy	
6.16	Bracy Therapy	
6.17	Management of Metastatic disease	
6.18	Radiotherapy	
6.19	Chemotherapy	
6.20	Hormonal therapy	
6.21	Surgical Castraion	
6.22	Supportive Treatment	
08	Testicular Cancer	
8.1	Epidemiology and Genetics	
8.2	Tumor markers	
8.3	Radiological investigations	
8.4	Staging and grading of disease	
8.5	Germ cell tumors in children and adults including seminoma and non-seminoma	
8.6	Non- Germ cell tumor	
8.7	Sex cord stromal tumor of the testis and other testicular adnexal structures and seminal vesicles	
8.8	Surgical Treatment	
8.9	Chemotherapy	
8.10	Radiotherapy	
8.11		
09	Penile Cancer	
9.1	Classification	
9.2	Management of primary tumor	
9.3	Management of regional disease	
9.4	Management of recurrent disease	
9.5	Chemotherapy	
9.6		



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	Radiotherapy	
10	Trauma of Genito urinary tract	10
10.1	Trauma of the Kidney and renal vessels	
10.2	Ureteric Trauma	
10.3	Bladder and Urethral injuries	
10.4	Trauma of the external genitalia	
10.5	Thermal chemical and electrical injuries of the external genitalia and urethra	
11	Andrology	02
11.1	Pathophysiology of male reproduction	
11.2	Aetiology and evolution of male infertility	
11.3	Medical Management of testicular dysfunction	
11.4	Surgical Treatment and investigation in infertility	
11.5	Management of ejaculatory disorders	
11.6	Pathophysiology of male sexual dysfunction	
11.7	Aetiology and Evaluation of the impotent male	
11.8	Medical and Surgical Management of impotence	
11.9	Priapism	
11.10	Peyronie's disease	
11.11	Fournier's gangrene	
11.12	Hydrocoele	
11.13	Varicocele	
11.14	Cysts of testicular adnexa	
11.15		
12	Paediatric urology	05
12.1	Renal Cyst Disease	
12.2	Renal Hypoplasia	
12.3		



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12.4	Renal vascular anomalies	
12.5	Caliceal, indundibular and pelvic anomalies	
12.6	Pelvic –ureteric junction obstruction	
12.7	Vesicoureteric reflux	
12.8	Aetiology, Classification, Pathology, Pathophysiology	
12.9	Diagnostic Procedures	
12.10	Surgical vs conservative treatment	
12.11	Reflux nephropathy	
	Megaureter	
12.12	Classification	
12.13	Diagnostic Procedures	
12.14	Treatment modalities	
12.15	Ureterocele	
12.16	Ectopic Ureter	
12.17	Anomalies of the bladder	
12.18	Bladder exstrophy, cloacal exstrophy, Epispas	
12.19	Urachal anomalies	
12.20	Imperforate anus, persistent cloaca, urogenital sinus, outlet obstruction	
12.21	Bladder duplication and congenital diverticula	
12.22	Anomalies of the Urethra and penis	
12.23	Bladder neck obstruction	
12.24	Posterior urethral valves	
12.25	Megalourethra	
12.26	Distal urethral stenosis in girls	
12.27	Urethral duplication and congenital diverticula	
12.28	Cystic Anomalies of Cowper's glands	
12.29	Hyospadias	
12.30	Epispadias	



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12.31	Congenital curvature of the penis/ shor urethra	
12.32	Concealed penis/ webbed penis	
12.33	Phimosis	
12.34	Anomalies of the testes	
12.35	Anorchidism, cryptorchidism and ectopy	
12.36	Hydrocele in the infant, inguinal hernia	
12.37	Testicular torsion / spermatic cord torsion	
12.38	Disorders of sexual differentiation	
12.39	Differential diagnosis and evaluation of sexual ambiguity	
12.40	Management of intersexuality	
12.41	Anomalies of epididymis, vas and seminal vesicles	
12.42	Prune – Belly syndrome	
12.43	Spina bifida management of urinary problems	
12.44	Oncology see 16	
13	History Anatomy Physiology of urogenital system	02
13.1	History of Urology	
13.2	Anatomy of and surgical approach to the urogenital system	
13.3	Retroperitoneum	
13.4	Adrenal glands	
13.5	Renal Vessels	
13.6	Kidney and Ureter	
13.7	Bladder and Urethra	
13.8	Prostate and seminal vesicles	
13.9	Penis	
13.10		



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13.11	Perineum	
13.12	Scrotum, testes, epididymis, and spermatic cord	
13.13	Physiology of adrenal glands and/ kidneys/ male reproductive system	
13.14	Endocrinology of the adrenal glands	
	Normal renal Physiology (including rennin-angiotensin-aldosterone system	
13.15	Physiology and Pharmacology of renal pelvis and ureter	
13.16	Physiology of urinary Bladder and urethra (micturition and continence)	
13.17	Physiology of male reproduction	
13.18	Hypothalamic – pituitary function	
13.19	Spermatogenesis and endocrine function of the testes	
13.20	Epididymis , vas deferens, prostate and seminal vesicles	
13.21	Erection and ejaculation	
14	Clinical Examination and diagnostic procedure	04
14.1	Initial evaluation	
14.2	History	
14.3	Physical examination	
14.4	Urinalysis	
14.5	Cystology of Urine, cystic fluid, prostate	
14.6	Semen analysis (WHO standard)	
14.7	Imaging of the urinary tract	
14.8	Excretory (intravenous) urography	
14.9	Ultrasound+ Doppler	
14.10	Voiding cystourethrography	
14.11	Antegrade and retrograde pyelography	
14.12	Urethrography	
14.13	Computed tomography	
14.14	Magnetic resonance imaging	



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14.15	Angiography	
14.16	Radionuclide studies (DTPA, DMSA, MAG3, Frusemide scan	
14.17	Diognostic urological instrumentation	
14.18	Catheterisation and urethral calibration	
14.19	Endoscopic procedures	
14.20	Urethrocystoscopy	
14.21	Ureterorenoscopy	
14.22	Pyeloscopy	
14.23	Biospy of Kidney, Prostate, bladder, Testis, Lymph nodes etc	
14.24	Urodynamic studies of upper and lower urinary tract	
15	Transplantation and immunotherapy	07
15.1	Classification, Pathology and Pathophysiology, diagnosis and principles of treatment of renal vascular lesions and renovascular hypertension	
15.2		
15.3	Renal Transplantation, immunology, surgery and management of complications	
16	Urological Infections	03
16.1	Microbiology of genitourinary infections, including the role of bacterial adherence in urinary tract infections	
16.2	Pathogenesis and predisposing factors	
16.3	Pathology and pathophysiology, including immunobiological response	
16.4	Localization of the site of urinary tract infection, including imaging techniques in UTI	
	Diagnostic procedures and treatment in:	
16.5	Nosocomial and catheter acquired infections	
16.7	Urinary Tract infection in infants and childrens	
16.8	Urinary Tract infection in (pregnant) women	
16.9	Asymptomatic bacteriuria	
16.10	Septicaemia and Septic shock	
16.11	Cystitis	



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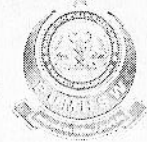


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16.12	Pyelonephritis	
16.13	Prostatis (acute and chronic)	
16.14	Nonbacterial Prostatis and Prostatodynia	
16.15	Urephritis	
16.16	Epididymitis and orchitis	
16.17	Seminal vesiculitis	
16.18	Sexually transmitted disease	
16.19	Parasitic disease	
16.20	Fungal Infection	
16.21		
17	Urinary Diversion	05
17.1	Methods, indication and contra indication of temporary diversion	
17.2	Permanent diversion	
17.3	Undiversion	
17.4	Continent / incontinent diversion	
17.5	Problems and complications related to urinary diversion and undiversion	
18	Urological Surgeries	08
18.1	Pre-peri and post-operative care	
18.2	Principles of anesthesia in urology	
18.3	Principles of surgical urological instruments and their technology	
18.4	Principles of urological surgical procedures including laparoscopy	
18.5	Indication and contra indication, complications, follow up and evaluation in the following surgical procedures:	
18.6	Retroperitoneum Surgery of Retroperitoneal fibrosis	



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18.7	Surgery of Retroperitoneal tumours
18.8	(Nerve spring) Retroperitoneal lymph node dissection
18.9	Adrenals
18.10	Surgery of adrenal tumours
18.11	Renal vessels and transplantation
18.12	Surgery of renal vessels(arteries, veins and lymphatics)
18.13	and for renovascular hypertension
	Renal transplantation
18.14	Kidney
18.15	Principles of surgical procedures
18.16	Nephrectomy(simple, partial, radical)
18.17	Nephroureterectomy
18.18	Operations of renal cysts
18.19	Open Nephrectomy
18.20	Surgery for renal calculous disease
18.21	Surgical management of pelvi-ureteric junction obstruction (pyeloplasty and calicoplasty)
18.22	Surgery for renal trauma
18.23	Prcutaneous and endoscopic procedures (for drainage, treatment of renal cysts, urolithiasis, caliceal or pelvi-ureteric junction obstruction and calicopelvic tumours)
18.24	Ureter
	Implantation of ureter in bladder
18.25	Implantation with psoas hitch, bladder flap (boari)
18.26	Surgical management of megaureter, reflux and ureterocele
18.27	Surgery for extrinsic and intrinsic ureteric stenosis
18.28	Surgery for ureteric lithiasis
18.29	Surgery for ureteric trauma
18.30	Ureterostomy cutaneous Ureterostomy and transurepero Ureterostomy



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18.31	Ureteroplasty and ureteric substation
18.32	Ureterectomy
18.33	Ureterointestinal diversion
18.34	Ureterosigmoidostomy
18.35	Ureterocutaneous diversion
18.36	Continent urinary diversion
18.37	Undiversion
18.38	Endoscopic and Percutaneous procedures (for drainage, treatment ureteric lithiasis ureteric stenosis and obstructions, reflux and ureterocele as well
18.39	as ureteric tumours)
18.40	Bladder Cystostomy, cutaneous vesicostomy Surgery for rupture of bladder
18.41	Partial, total and radical cystectomy
18.42	Surgery for bladder diverticula
18.43	Surgery for bladder fistulae
18.44	Pelvic lymph nodes dissection
18.45	Use of intestinal segments
18.46	Augmentation cystoplasty
18.47	Continent urinary diversion
18.48	urinary undiversion
18.49	Surgery for bladder exstrophy
18.50	Endoscopic and Percutaneous procedures (for drainage, treatment of bladder tumours, stones and diverticula)
18.51	Female bladder neck and urethra
18.52	Urethrotomy and urethroplasty
18.53	Surgical treatment of urethral diverticulum
18.54	Surgical treatment of urethrovaginal fistulae
18.55	treatment of cystocele



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18.56	Cervico- urethroplasty
18.57	Urethral reconstruction
18.58	Suspension and sling type procedures for incontinence
18.59	Artificial sphincter prosthesis
18.60	Urethrectomy
18.61	Endoscopic procedure treatment of obstruction incontinence, tumours, male bladder neck and prostate
18.62	Open Surgery of bladder neck, including Y-V plasty
18.63	Treatment of fistulae
18.64	Open prostatectomy for BPH
18.65	Radical prostatectomy + lymph node dissection
18.66	Perineal prostatectomy
18.67	Surgery for male incontinence
18.68	Endoscopic procedure
18.69	Male Urethra
18.70	Surgery for meatal stenosis
18.71	Urethrotomy, Urethrostomy
18.72	Surgery for urethral fistula
18.73	Surgery for urethral rupture
18.74	Surgery for urethral strictures
18.75	Diverticulectomy
18.76	Surgery for hypospadias and Epispadias
18.77	Incontinence in male and female
18.78	Suspension type procedures
18.79	Sling procedures
18.80	Artificial sphincter prosthesis
18.81	Bladder neck surgery
18.82	Transurethral surgery



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18.83	TURP
18.84	TURBT
18.85	Optical urethrotomy
18.86	Cystolitholapaxy, Cystolithotripsy
18.87	Transurethral management of ureteric calculi
18.88	Intravesical chemotherapy
18.89	Transurethral ureteroscopy
18.90	Testis
18.91	Radical orchidectomy
18.92	Subcapsular orchidectomy
18.93	Orchidopexy
18.94	Surgical management of intra-abdominal testis
18.95	Surgery of hydrocele
18.96	Surgery for testicular trauma
18.97	Testicular prosthesis
18.98	Surgery for varicocele
18.99	Epididymis and vas deferens
18.100	Epididymectomy
18.101	Surgery for epididymal cyst
18.102	Vesico-epididymostomy
18.103	Vasectomy and Vasectomy reversal
18.104	Penis
18.105	Circumcision
18.106	Surgery for penile trauma
18.107	Management of priapism
18.108	Management of penile chordea
18.109	Surgery for peyronie's disease
18.110	Management of BXO



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18.111	Penile prothesis	
18.112	Penile Reconstruction	
18.113	Intersex and transsexual surgery	
18.114	Treatment of surgical complications	
18.115		
18.116		
18.117		
19	Special non-Surgical Technique	02
19.1	Catheterisation dilatation	
19.2	Fulguration and electrocoagulation	
19.3	Laser (specific use in urology)	
19.4	Hyperthermia thermotherapy	
19.5	Cryo procedures/ HIFU	
19.6	ESWL	
20	Laparoscopy in urology	02
21	Pathophysiology Genitourinary tract	02
21.1	Pathophysiology of obstructive uropathy	
21.2	Effects of complete obstruction on renal function	
21.3	Effects of partial obstruction on renal function	
21.4	Renal metabolic changes in hydronephrosis	
21.5	Compensatory renal growth	
21.6	Supravesical obstructive disorders	
21.7	Pathophysiology of chronic pyelonephritis/ reflux nephropathy	
21.8	Pathophysiology of ureter	
21.9	Lower urinary tract dysfunction	
21.10	Aetiology, classification, Pathophysiology, diagnostic procedures,	



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21.11	management and treatment of :	
21.12	Urinary incontinence	
21.13	Nocturnal enuresis	
21.14	Neuropathic bladder	
21.15	Dysfunctional voiding	
21.16		
		100