

Block L (Renal-2+Endocrine & Reproduction-2 Modules)

Fourth Year Mbbs course content for Kmu

By Modular Medical Circle

Pathology/Microbiology (Mcqs=23)

S.No.	Topics	Pathoma 2021 edition /Levinson 16 th edition	Robbins 10 th Edition
Renal-2 Module [Mcqs=11]			
1	Basic terms: Azotemia, uremia, Nephrotic syndrome, Nephritic syndrome, asymptomatic hematuria, rapidly progressive glomerulonephritis, Acute kidney injury, chronic kidney disease, end-stage renal disease (ESRD), Renal tubular defects, Nephrosclerosis, UTI, urolithiasis, Hydronephrosis, Oncocytoma and carcinoma, pathogenesis of Nephrotic and Nephritic syndrome	Better to see from Robbins or any other source	P#549-550 [Chapter 14]
2	Glomerular Disease: Nephritic syndrome and Nephrotic syndrome, minimal change disease, segmental glomerulosclerosis, membranoproliferative glomerulonephritis, IgA nephropathy, secondary nephropathies	Page#127-131 [Chapter 12]	page 550-563 [Chapter 14]
3	Acute Tubular Injury (ATI)	Page#126-127 [Ch#12]	page 567 [Chapter 14]
4	Vascular events: Nephrosclerosis, malignant hypertension and Renal Artery stenosis	Not Found	page 569-571 [Chapter 14]
5	Renal function test	Not Found	Not Found
6	Acute kidney injury	Page#125-126 [Ch#12]	page 550+567 [Ch# 14]
7	Chronic Renal Failure	Page#132-133 [Ch#12]	Page#572 [Chapter 14]
8	Interstitial and Glomerulonephritis	P#127 [CH#12] interstitial present only	page 564 [Chapter 14]
9	Pyelonephritis	Page#132 [Ch#12]	page 564 [Chapter 14]
10	Cystic Diseases of the Kidney	Page#125 [Ch#12] PKD only	page 573-575 [Chapter 14]
11	Urolithiasis	Not Found	page 576 [Chapter 14]
12	Neoplasms of the Kidneys: Renal cell carcinoma, Wilm's Tumor, Diagnosis and management of renal tumors	Page#133-134 [Ch#12]	page 578 [Chapter 14]

13	Congenital anomalies of bladder	Not Found	Not Found
14	Acute Cystitis	Page#131 [Ch#12]	page 702 [Chapter 18]
15	Chronic Cystitis	Same but both deficient	page 702 [Chapter 18]
16	Obstructive Uropathy {Hydronephrosis}		page 577 [Chapter 14]
17	Tumors of urinary bladder	Page#135 [Ch#12]	page 702 [Chapter 18]
18	BPH	Page#155 [Ch#14]	page 698 [Chapter 18]
19	Carcinoma prostate	Page#156-157 [Ch#14]	page 699 [Chapter 18]
Endocrine & Reproduction-2 Module [mcqs=12]			
1	Pituitary gland- Physiological anatomy	Consult Physiology Book	page 750 [Ch#20]
2	Hyperpituitarism/Pituitary adenomas	Page#159 [ch#15]	page 750-753 [Ch#20]
3	Hypopituitarism	Page#159-160 [ch#15]	page 754 [Ch#20]
4	Hyperthyroidism including Grave`s disease	Page#161-162 [ch#15]	page 756+760 [Ch#20]
5	Hypothyroidism	Page#162 [ch#15]	page 757 [Ch#20]
6	Thyroiditis	Page#163 [ch#15]	page 758 [Ch#20]
7	Multinodular goiter	Page#162 [ch#15]	page 762 [Ch#20]
8	Thyroid malignancies	Page#163-164 [ch#15]	page 763 [Ch#20]
9	Diabetes Mellitus • Classification • Diagnosis • Insulin resistance • Beta cell dysfunction • Complications: Acute & Chronic	Page#166-168 [ch#15]	page 772 [Ch#20]
10	Pancreatic neuroendocrine tumors	Page#168 [ch#15]	page 784 [Ch#20]
11	Hypercortisolism and Cushing`s syndrome	Page#169 [ch#15]	page 785 [Ch#20]
12	Hyperaldosteronism	Page#169 [ch#15]	page 788 [Ch#20]
13	Adrenogenital syndrome		page 789 [Ch#20]
14	Adrenal insufficiency • Primary (Acute and Chronic) • Secondary	Page#170 [ch#15]	page 790 [Ch#20]
15	Adrenal neoplasms	Not Found	page 792 [Ch#20]
16	Pheochromocytoma	Page#170 [ch#15]	page 793 [Ch#20]
17	Multiple Endocrine Neoplasia syndromes (MEN)		page 795 [Ch#20]
18	Testicular tumors	Page#153-154 [ch#14]	page 693 [Chapter 18]
19	Prostatic disorders • Prostatitis • Benign prostatic hyperplasia (BPH) • Prostatic carcinoma	Page#155-157 [ch#14]	page 697-700 [Chapter 18]
20	Sexually transmitted diseases (STDs) • Syphilis • Gonorrhoea	Levinson: P#196-199 [ch#24] & P#127-129 [Ch#16]	Page 704-708 [Ch#20]
21	Introduction to gynecological cancers	See lecture Slides	See lecture Slides
22	Cervical carcinoma	Page#140 [ch#13]	page 717 [Ch#19]
23	Endometritis	Page#142 [ch#14]	page 721 [Ch#19]
24	Uterine fibroids	Page#143 [ch#14]	page 725 [Ch#19]
25	Endometriosis	Page#142 [ch#14]	page 721 [Ch#19]
26	Endometrial hyperplasia and endometrial carcinoma	Page#143 [ch#14]	page 723-724 [Ch#19]

27	Polycystic ovarian disease	Page#144 [ch#14]	page 727 [Ch#19]
28	Tumors of the ovary	Page#145-146 [ch#14]	page 727 [Ch#19]
29	Fibrocystic changes (in breast) • Cysts and fibrosis • Epithelial hyperplasia • Adenosis	Page#172-173 [Ch#16]	page 738 [Ch#19]
30	Fibro-adenoma	Page#173 [Ch#16]	page 738 [Ch#19]
31	Papilloma	Page#172 [Ch#16]	
32	Carcinoma of the breast	Page#173-176 [Ch#16]	page 739 [Ch#19]
33	Gynecomastia	Not Found	page 737 [Ch#19]

Pharmacology (Mcqs=9)

S.No.	Topics	Lippincot 8 th Edition	Tara 4 th Edition	Mini Katzung 12 th Edition
Renal-2 Module [Mcqs=02]				
1	Urinary Tract Infection (UTI)	See lecture slides	See lecture slides	See lecture slides
2	Drugs for benign prostatic hyperplasia	Page#560(Ch#41)	Page#318 (Ch#9)	Page#342(Ch#40)
3	Carcinoma of prostate	page#337(Ch#25)	Page#318 (Ch#9)	Page#342(Ch#40)
Endocrine & Reproduction-2 Module [mcqs=7]				
1	Growth hormone	page#303 (Ch#23)	Page#30 (Ch#9)	Page#316(Ch#37)
2	Growth hormone antagonists (Octreotide and others)	page#304 (Ch#23)	Page#305 (Ch#9)	Page#317(Ch#37)
3	Bromocriptine	Page#110(chap#8) Page#305(chap#23)	Page#308 (Ch#9)	Page#317(Ch#37)
4	Thyroid hormones	Page#306 (ch#23)	Page#309 (Ch#9)	Page#324(Ch#38)
5	Antithyroid drugs	P#307-308 (Ch#23)	Page#312 (Ch#9)	Page#326(Ch#38)
6	Insulin	Page#313 (Ch#24)	Page#341 (Ch#9)	Page#349(Ch#41)
7	Oral hypoglycemic drugs	Page#317 (Ch#24)	Page#348 (Ch#9)	Page#350(Ch#41)
8	Glucagon	Page#316 (Ch#24)	Page#354 (Ch#9)	Page#354(Ch#41)
9	Vasopressin/Desmopressin	Page#306 (Ch#23)	Page#161 (Ch#4)	Page#319(Ch#37)
10	Glucocorticoids	Page#340 (Ch#26)	Page#331-341 (Ch#9)	Page#330(Ch#39)
11	Glucocorticoid antagonists/synthesis inhibitors	Page#344 (Ch#26)	Page#341 (Ch#9)	Page#333-334 (Ch#39)
12	Aldosterone antagonists	Page#345-346 (Chap#26)	Page#341 (Ch#9)	Page# 333-334 (Ch#39)
13	Gonadotropins (FSH & LH) and human chorionic gonadotropin	Page#305 (Ch#23)	Page#306 (Ch#9)	Page#317(Ch#37)
14	Gonadotropin-releasing hormone and analogues (Gonadorelin and others)	Page#304 (Ch#23)	Page#307 (Ch#9)	Page#318(Ch#37)
15	Oxytocin	Page#305 (Ch#23)	Page#362(Ch#10)	Page#319(Ch#37)

16	Oestrogens	Page#326(Ch#25)	Page#318 (Ch#9)	Page#337(Ch#40)
17	Progestins	Page#330(Ch#25)	Page#324 (Ch#9)	Page#338(Ch#40)
18	Oral contraceptives	Page#332-335 (Ch#25)	Page#326 (Ch#9)	Page#339(Ch#40)
19	Parenteral and implantable contraceptives	Page#332-335 (Ch#25)	Page#329 (Ch#9)	Page#339(Ch#40)
20	Ovulation-inducing agent (Clomiphene)	Page#329 (Ch#25)	Page#322 (Ch#9)	Page#341(Ch#40)
21	Mifepristone	Page#332 (Ch#25)	Page#326 (Ch#9)	Page#341(Ch#40)
22	Danazol	Page#336 (Ch#25)	page#317 (Ch#9)	Page#341(Ch#40)
23	Androgens and anabolic steroids	Page#335 (Ch#25)	Page#316 (Ch#9)	Page#341(Ch#40)
24	Antiandrogens	Page#337 (Ch#25)	Page#317 (Ch#9)	Page#342(Ch#40)
25	Male contraception	Not present	Page#331 (Ch#9)	Not present
26	Selective Estrogen Receptor Modulators (SERMs)- Tamoxifen and others	Page#329 (Ch#25)	Page#322 (Ch#9)	Page#340(Ch#40)

Community Medicine (Mcqs=17)

S.no.	Topics	Excell	Hayat 3 rd Edition
Renal-2 Module [Mcqs=11]			
1	Environmental health: Introduction	Page#187	See Lecture Slides
2	Water pollution	Page #190-202	P#252-274 [Ch#10]
3	Water quality management		
4	HIV/AIDS, Syphilis	Page#105 – 108 for HIV/AIDS	Page #166-167 [Ch#5]
5	Chlamydia, Genital warts, Gonorrhoea		Page #168-170 [Ch#5]
6	Human Papilloma virus		Page #171-172 [Ch#5]
7	Air Pollution & air quality management	Page#202-206	Page#241-250 [Ch#5]
8	Noise pollution, radiation pollution and its control	Page #210-211 Page#299-302	P#299-300 & P#301-303 [Ch#11]
9	Waste management	Page #214-225	Page#278-280 [Ch#10]
10	Hospital waste management		Page#288-293 [Ch#10]
11	Disasters and health	Page # 321 -328	Page#313-320 [Ch#12]
Endocrine & Reproduction-2 Module [mcqs=6]			
1	Occupational Health & ergonomics: Introduction	Page#227-228	Page#295-298 [Ch#11]
2	Physical hazards		Page#298-304 [Ch#11]
3	Chemical hazards		Page#304-307 [Ch#11]
4	Mechanical, Biological & Psychosomatic hazards		Page#307-308 [Ch#11]
5	Animal hazards	Page #125-127	
6	Preventive measures, health insurance, social security schemes	Page# 233-235	Page#310-311 [Ch#11]

7	Demography: Introduction	Page #165-176	Page#329-338 [Ch#14]
8	Growth rate		
9	Demographic indicators		
10	Iodine deficiency/ Goitre	Page #292 (table)	Page#205 [Ch#8]
11	Non-communicable diseases: Prevention of diabetes mellitus	Page#120-121	Page#187-188 [Ch#7]
13	Introduction to nutrition, basic measurements & allowances	Page #271 -297 (Whole chapter)	Page#195--199 [Ch#8]
14	Macronutrients	Page #274	Page#199-201 [Ch#8]
15	Micronutrients -Vitamin deficiencies allowances & control	Page #275	Page#201-203 [Ch#8]
16	Micronutrients -mineral deficiencies allowances and control		Page#204-205[Ch#8]
17	Undernutrition – Protein calorie malnutrition and control	Page #284	Page#205-2012 [Ch#8]
18	Over-nutrition / obesity and it's control	Page #123	Page#185-186 [Ch#7]
19	Safe motherhood	Page#254	Page#221-230 [Ch#9]
20	Antenatal care	Page#241-243	
21	Family planning and post abortion care	Page#259-270	
22	Child promotion and development strategies (IMNCI, IMCI and growth monitoring)	Page #246 IMNC1 # 313	P#232-238 [Ch#8]
23	Prevention of reproductive health diseases	See Lecture slides	See Lecture slides
24	Breast feeding	Page #248	Page#230-231 [Ch#9]
25	Screening and prevention of breast cancer	See Lecture slides	See Lecture slides

Forensic Medicine (Mcqs=7)

S.no.	Topic	Parikh	Jamiat
Renal-2 [mcqs=1]			
1	Ethics of Organ Transplantation	CH #11 (page 148)	
Endocrine and Reproduction-2 [mcqs=6]			
1	Impotence and sterility	CH #24 - page (381)	CH #12-page (147,148)
2	Sterilization	CH #24- page (385)	CH # 12-page 148
3	Artificial insemination	CH #24- page (385)	
4	Virginity	CH #25- page (389)	CH #13-page 157
5	Pregnancy	CH #25- page (392)	CH #13-page 158
6	Delivery	CH #25- page (397)	CH #13-page 162
7	Legitimacy & dissolution of marriage	CH #26- page (401)	
8	Natural sexual offences: Rape & Incest	CH #27-Page(405-419)	CH #12-page 150
9	Zina	Not Present	
10	Unnatural sexual offences Sodomy	CH #28-Page(424)	CH #12-page 149,154
11	Sexual perversions	CH #29-Page(428)	CH #12-page 155
12	Abortion	CH #30-Page(430)	CH #13-page 164

Gynaecology and Obstetrics (Mcqs=40)

S.no	Topic	Ten Teachers	Arshad Chohan [International Edition 2022]
Renal-2 module [Mcqs=1]			
1	Asymptomatic bacteriuria		
2	Acute symptomatic urinary tract infections		page#153(CH#16&17)
Endocrine and Reproduction-2 Module [mcqs=39]			
1	Anatomy of the reproductive tract	Page# 4-14 (CH#01)	Page#01-13 (CH#01)
2	Menopause	Page#105-119 (CH#08)	Page#59 (CH#08)
3	Contraception	CH#06	Page#125(CH#13)
4	Polycystic ovary syndrome	CH#03	Page#33 (CH#5)
5	Uterine fibroids	CH#12	Page#207 (CH#33)
6	Endometrial cancers	CH#12	Page#220-228(CH#24)
7	Cervical carcinomas	CH#12	Page#237-244(CH#25)
8	Female infertility	CH#07	Page#105-110 (CH#12)
9	Malignant diseases of the ovaries	CH#14	Page#257(CH#27)
10	Uterovaginal prolapse	Page#146-153	Page#175(CH#19)
11	Urinary incontinence	Page#152	Page#189(CH#21)
12	Endometriosis	Page#158-165	Page#139(CH#14)
13	Abnormal uterine bleeding	Page#49-57	Page#39 (CH#06)
14	Miscarriage	Page#60-61	Page#67(CH#9)
15	Ectopic gestation	Page#62-65	
16	Gestational trophoblastic diseases (GTDs)		
17	Vaginal discharge and STDs		

Note: Now gynecology is excluded from final year and is taught in 4th year so carefully and thoroughly study the above mentioned topics.

General Surgery/Urology (Mcqs=9)

S.no	Topic	Dogers or any other source
Renal-2 [mcqs=6]		
1	Renal transplant surgery	
2	Kidney Stones	Page#218-223
3	Renal trauma	Page#214-15
4	Pelvic Ureteric junction obstruction in adult (PUJO)	Page#217
5	Anomalies of renal fusion and ascent	Page#212-214
6	Renal Cell Carcinoma (RCC)	Page#227-229

7	carcinoma of urinary bladder	Page#235-238
8	Enlarged Prostate	Page#241-245
9	Carcinoma prostate	Page#245-248
10	Urinary Incontinence	Page#238-23
11	Urethral strictures	
12	Posterior urethral valve	
Endocrine and Reproduction-2 [mcqs=3]		
1	Causes of male infertility	
2	Cryptorchidism	Page#262
3	Hydrocele and varicocele	Page#263-265
4	Benign prostatic hyperplasia	Page#241-245
5	Carcinoma of prostate	Page#245-248
6	Investigations of breast diseases	Page#326
7	Benign breast diseases	Page#326-331
8	Malignant breast diseases	Page#332-337

Medicine (Mcqs=10)

S.no	Topic	Step up	Irfan Masood
Renal-2 [mcqs=5]			
1	Interpretation of urinalysis		
2	Nephrotic syndrome	CH#7-page 281	CH#4-page 101
3	Nephritic syndrome	CH#7-page 284, 285	CH#4-page 96
4	Electrolytes abnormalities <ul style="list-style-type: none"> • Hyponatremia • Hypernatremia • Hypokalemia • Hyperkalemia 	CH#8-page 303-324	
5	Acute Kidney Injury (AKI)	CH#7-page 269	CH#4-page 81
6	Chronic Kidney Disease (CKD)	CH#7-page 276-278	CH#4-page 88
7	Renal Replacement Therapy (RRT)		CH#4-page 91
8	Autosomal Dominant Polycystic Kidney Disease (ADPKD)	CH#7-page 289	CH#4-page 118
9	Urinary Tract Infections (UTIs)	CH#10-page 380	CH#4-page 106
Endocrine and Reproduction-2 [mcqs=5]			
1	Acromegaly/Gigantism	CH#4-page 177, 178	CH#7-page 328
2	Hyperprolactinemia	CH#4-page 176	CH#7-page 326
3	Hypopituitarism/Sheehan's syndrome	CH#4-page 178	CH#7-page 329
4	Diabetes mellitus <ul style="list-style-type: none"> • Types • Insulin resistance syndromes • Clinical features investigations • Treatment • Complications 	CH#4-page 190	CH#8-page 341
5	Hypoglycemic coma	CH#4-page 203	CH#7-page 336
6	Diabetic ketoacidosis	CH#4-page 200	CH#8-page 351

7	Hyperosmolar non-ketotic diabetic coma	CH#4-page 201	CH#8-page 355
8	Lactic acidosis		CH#8-page 357
9	Posterior pituitary gland	CH#4-page 176	CH#7-page 331
10	SIADH	CH#4-page 180	CH#7-page 333
11	Hypercortisolism and Cushing's syndrome	CH#4-page 183	CH#7-page 315
12	Primary Hyperaldosteronism	CH#4-page 186	CH#7-page 318
13	Adrenogenital syndrome	CH#4-page 190	CH#7-page 324
14	Adrenal insufficiency <ul style="list-style-type: none"> • Primary (Acute and Chronic) • Secondary 	CH#4-page 188	CH#7-page 320
15	Adrenal neoplasms	CH#4-page 180	CH#7-page 333
16	Pheochromocytoma	CH#4-page 183	CH#7-page 315
17	Gastro-entero-pancreaticoneuroendocrine tumors (GEP-NETs) including Carcinoid tumors	CH#4-page 186	CH#7-page 318

Pediatrics (Mcqs=3)

S.No.	Topic	Pervez Akbar 10 th Edition
Renal 2 module [Mcqs=2]		
1	Acute post streptococcal glomerulonephritis (ApGN)	P#516-519 [Ch#23]
2	Nephrotic syndrome (NS)	P#522-527 [Ch#23]
3	Urinary tract infection (UTI)	P#523-538 [Ch#23]
Endocrine and Reproduction 2 Module [Mcqs=1]		
1	Short stature	P#448-451 [Ch#19]
2	Congenital hypothyroidism	P#454-456 [Ch#19]
3	Management of Type 1 Diabetes mellitus in children	P#466 [Ch#19]

Family Medicine (Mcqs=2)

S.No.	Topics	Source if any
Renal 2 module [Mcqs=1]		
1	Acute renal presentations- primary care management and Red flags	
Endocrine and Reproduction 2 Module [Mcqs=1]		
1	Menstrual disorders	
2	Menopause	
3	Contraception	
4	Vaginal discharge and STDs	

Recommended Resources for Block L

A) Pathology [Renal, Endocrinology, Reproductive From]

1. Pathoma book + lectures
2. First Aid
3. BnB
4. Dirty medicine YouTube channel
5. Sketchy lectures (For Micro)

B) Pharmacology:

1. Kaplan
2. First Aid
3. Sketchy
4. Speedy Pharmacology

C) Forensic Medicine ----> Sexual assault and other related chapters from: Parikh

D) Community Medicine:

1. Excell
2. Selfless medicose YouTube channel

E) Medicine: Kaplan and Step-up

F) Surgery [Urology from]:

1. Dogger
2. Selfless medicose YouTube channel

G) Gynaecology:

1. Kaplan
2. Lecture slides

WRITTEN BY:

Yasir khattak, Aitizaz Ibrar, Qazi Yousafzai, Raheem Badshah, Usman Khan, Manahil Ajmal

Content Creators and Reveiwers,

Fourth Year Division, Academic Wing, Modular Medical Circle

REVIEWED AND SUPERVISED BY:

1. **Shah Sawar Khan**, *Director Academic Wing MMC*
2. **Farhad Ali**, *Director General MMC*
3. **Saqib Islam**, *Deputy Director General MMC*