

Urology

STUDY GUIDE



Upper Egypt Faculties of Medicine

Assiut University

Minia University

Sohag University

South Valley University

Aswan University

Prepared by

**Departements of: Urology Sohag faculty of
medicine ,sohag university**

Under supervision of

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Urology. Study Guide

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URO-528 (code)

URO-528 (code)
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Basic Information about the Block

● **Program on which the course is given:**

Bachelor of Medicine and Surgery (M.B. B.Ch.).

● **Elements (major or minor) of the program:**

Undergraduate

● **Departments offering the course:**

UROLOGY

Sugestted position in the curriculum map

5TH level, 1ST semester.

Prerequiestes

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Date of specification approval:

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⊖ **Title: Urology**

⊖ **Code: URO-528**

⊖ **Credit Hours : 5.5 H**

⊖ **Lectures:** 12 lecture, contact hours 24 H (.....minimum % of flipped/team based lectures.

⊖ **practicals/clinical (laboratory/simulatation skill lab/bedside teaching) :10 contact hours**

⊖ **small Case based group discussions: 10 contact hours)**

⊖ **Student self learning activities:**

Portfolio: (8)

Formative assessment (2)

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Block Map

NARS competencies the block/module is expected to share in their

The total hours of the final written exam	Total marks	Days/weeks	Credit..	Code	Responsible department	Block/module	level/semester
2 h	110	4 hour per week for 14 weeks	5.5	URO-528	UROLOGY	Urology	5 th medical school

student achievement

NARS areas	NARS key competencies
1- The graduate as a health care provider.	1.1. Take and record a structured, patient centered history. 1.4. Perform appropriately timed full physical examination of patients appropriate to the age, gender, and clinical presentation of the patient while being culturally sensitive. 1.6. Select the appropriate investigations and interpret their results taking into consideration cost/ effectiveness factors. 1.10. Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation. 1.11. Perform diagnostic and intervention procedures in a skillful and safe manner, adapting to unanticipated findings or changing clinical circumstances. 1.14. Respect patients' rights and involve them and /or their families/carers in management decisions.
2-The graduate as a health promoter	2.4 Identify the major health risks in his/her community, including demographic, occupational and environmental risks; endemic diseases, and prevalent chronic diseases.
3-The graduate as a professional	3.1. Exhibit appropriate professional behaviors and relationships in all aspects of practice, demonstrating honesty, integrity, commitment, compassion, and

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	<p>respect.</p> <p>3.5. Ensure confidentiality and privacy of patients' information.</p> <p>3.8. Refer patients to appropriate health facility at the appropriate stage.</p>
4-The graduate as a scholar and scientist	<p>4.5 Identify various causes (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, degenerative, and traumatic) of illness/disease and explain the ways in which they operate on the body (pathogenesis).</p>
5-The graduate as a member of the health team and a part of the health care system	<p>5.1 Recognize the important role played by other health care professions in patients' management.</p>

Professional Information

Block Aims

Overall Aims

- 1-This block aims to provide students with fundamental knowledge and clinical skills that enable him/her to detect, manage and/or refer common and important urologic conditions .
3. By the end of the blocks, the students will be able to diagnose and counsel patients and their families about common urological conditions.

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Learning Outcomes of **theBlock**:

Each competency will be broken down into one or more learning outcomes that may be K, S or A or all.

NARS Key competencies	Learning outcomes for each key competencies	Doma in Know Know how Show how Does	Teaching method	Assess ment method
1.1. Take and record a structured, patient centered history.	<p>K1. To know causes and differential diagnosis of the common urological complaints including the following:</p> <ol style="list-style-type: none"> 1-flank pain 2-hematuria 3-Obstructive anuria 4-acute urinary retention 5-acute scrotum 6-lower urinary tract symptoms 7-urinary incontinence 8-erectile dysfunction 9-male subfertility <p>S1. A.1 obtain a focused history for analysis of the common urological complaints including the following:</p> <ol style="list-style-type: none"> 1-Flank pain 2-hematuria 3-Obstructive anuria 4-acute urinary retention 5-acute scrotum 6-lower urinary tract symptoms 7-urinary incontinence 	<p>Know Know how Show how</p>	<p>Lectures Out - patient clinic attendance Clinical rounds Case discussion</p>	<p>MCQ OSCE Short answer essay</p>

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<p>1.4. Perform appropriately timed full physical examination of patients appropriate to the age, gender, and clinical presentation of the patient while being culturally sensitive.</p>	<p>K2: To know how to examine the peculiar urologic regions: (the loins, male external genitalia and male pelvic examination).</p> <p>S2: To perform physical examination for the loins, male external genitalia and digital rectal examination.</p> <p>A2: Recognize and maintain isolation and privacy all through patients examination.</p>	<p>Know Know how Show how</p>	<p>Lectures Out -patient clinic attendance Clinical rounds Case discussion</p>	<p>MCQ OSPE OSCE</p>
<p>1.6. Select the appropriate investigations and interpret their results taking into consideration cost/ effectiveness factors.</p>	<p>K.3 To know the common urological investigations including :</p> <ol style="list-style-type: none"> 1-urine analysis 2-serum creatinine 3-semen analysis 4-abdominal and scrotal ultrasonography 5-KUB x ray and IVU 6-Non Contrast and contrast abdomino-pelvic MSCT 7-MRI 8-Renal radio-isotope scan <p>K. 4 To know the main indications and</p>	<p>Know Know how</p>	<p>Lectures Clinical rounds Attendance in out-patient clinic and ultrasound unit</p>	<p>Portfolio MCQ OSPE Short answer essay</p>

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	<p>contraindications of the urological investigations</p> <p>S.3</p> <p>To be able to identify normal and abnormal findings in the forementioned investigations</p>			
<p>1.10. Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation.</p>	<p>K.5</p> <p>To know the clinical presentation, signs and appropriate investigation used to diagnosis the common urological diseases including:</p> <ol style="list-style-type: none"> 1. Genito-urinary infections 2. Obstructive uropathy 3. Urolithiasis 4. Urinary tract trauma 5. Genito-urinary congenital anomalies 6. Genito-urinary tumors 7. Neuropathic bladder 8. Urinary incontinence 9. Erectile dysfunction 10. Male subfertility 11. Andrologic emergencies <p>S.4</p> <p>To choose the appropriate investigations and interpret their findings to diagnose the forementioned diseases</p>	<p>Know Know how Show how</p>	<p>Lectures Out - patient clinic attendance Clinical rounds Case discussion</p>	<p>Portfol io MCQs OSPE Short answer essay</p>

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<p>1.11. Perform diagnostic and intervention procedures in a skillful and safe manner, adapting to unanticipated findings or changing clinical circumstances.</p>	<p>K6: To know the appropriate catheter type and size for each patient.</p> <p>K 7: To know the technique, indications, contraindications and complications of urethral catheterization .</p> <p>S 5: To perform both male and female urethral catheterization on a model.</p> <p>S6: To be able to remove the indwelling urethral catheters on a model.</p>	<p>Know Know how Show how</p>	<p>Lectures Out -patient clinic attendance Clinical rounds Case discussion Attendance at the operative theatre</p>	<p>Portfol io MCQs OSPE Short answer essay</p>
<p>1.14. Respect patients' rights and involve them and /or their families/carers in management decisions.</p>	<p>A.3 To obtain informed patient consent for genital and DRE</p> <p>A.4 Exhibit honesty and integrity with patients and their families</p> <p>A.5 Recognize and maintain boundaries and privacy when interacting with patients.</p>	<p>Show how</p>	<p>Out-patient clinic Case discussion</p>	<p>Portfol io OSCE</p>
<p>2.4 Identify the major health risks in his/her community, including demographic, occupational</p>	<p>K 8: To recognize and early detect the risk factors for the following diseases: 1. Urinary stones</p>	<p>Know Know how Show</p>	<p>Lectures Out - patient clinic</p>	<p>Portfol io MCQs</p>

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<p>and environmental risks; endemic diseases, and prevalent chronic diseases.</p>	<ol style="list-style-type: none"> 2. Male subfertility 3. Erectile dysfunction 4. UTI 5. Obstructive uropathy 6. Urinary incontinence 7. Genito urinary tumors <p>S.7</p> <p>To obtain medical history to identify the possible risk factors of previously mentioned conditions in K 7.</p> <p>S 8:</p> <p>To be able to spot abnormal physical findings related to the risk factors of the previously mentioned conditions in K7.</p>	<p>how</p>	<p>attendance</p> <p>Clinical rounds</p> <p>Case discussion</p>	<p>OSCE</p> <p>Short answer essay</p>
<p>3.1. Exhibit appropriate professional behaviors and relationships in all aspects of practice, demonstrating honesty, integrity, commitment, compassion, and respect.</p>	<p>A6</p> <p>To be able to give feedback to colleagues in an informative and respectful manner</p> <p>A7</p> <p>To exhibit professional behavior during history taking, physical examination and counseling of the patient</p>	<p>Show how</p>	<p>Out - patient clinic attendance</p> <p>Clinical rounds</p>	<p>Portfolio OSCE</p>
<p>3.5. Ensure confidentiality and privacy of</p>	<p>A8</p>	<p>Show</p>	<p>Out -</p>	<p>Portfolio</p>

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patients' information.	Avoid undue disclosing confidential patient information especially via online communications.	how	patient clinic attendance Clinical rounds	io OSCE
3.8. Refer patients to appropriate health facility at the appropriate stage.	K9: To identify urological conditions that should be referred to urologist especially urologic emergencies	Know Know how	Lectures Out - patient clinic attendance Clinical rounds Case discussion	Portfolio MCQs OSCE Short answer essay
4.5 Identify various causes (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, degenerative, and traumatic) of illness/disease and explain the ways in which they operate on the body (pathogenesis).	K 10 To know the etiology of the following diseases: 1. UTI 2. urolithiasis 3. Obstructive uropathy 4. Erectile dysfunction and male subfertility 5. Voiding dysfunction and urinary incontinence	know	Lectures Case discussion	MCQs Short answer essay

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	<p>K 11</p> <p>To know the pathogenesis of previously mentioned benign conditions</p>			
<p>5.1 Recognize the important role played by other health care professions in patients' management.</p>	<p>K 12</p> <p>To know the indications in which the urologist should consult other specialities e.g: nephrology, general surgery, pediatric, orthopedic, obstetric... etc</p> <p>K 13</p> <p>To know the indications in which non urologists should consult urologist</p>	<p>Know</p> <p>how</p>	<p>Lectures</p> <p>Case discussion</p> <p>Out-patient clinic</p>	<p>portfolio</p> <p>o</p> <p>MCQs</p>

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Structure of the block

Week	Lectures (NUMBER)	Practical (NUMBER)	PORTFLIO TASKS (NUMBER)	CASE BASED Discussions (NUMBER)	Formative Assessment (NUMBER)	Revisions and Exams	Total
1 st	2	1		1			4
2 nd	2	1		1			4
3 rd	2		2				4
4 th	2	1		1			4
5 th	2	1		1			4
6 th	2		2				4
7 th	2	1		1			4
8 th	2	1		1			4
9 th	2		2				4
10 th		1		1	1		4
11 th	2	1		1			4
12 th	2		2				4
13 th	2	1		1			4
14 th		1		1		1	4

As regard lecture, practical and case based discussion, Number =30 h
Contact hours

Learning Methods

- 1- Lectures for knowledge outcomes.
- 2- Practical (labs/Bedside/skill lab) sessions to gain clinical/practical skills.
- 3- Task based log (may use inscion academy/clinical key cases). recorded in the portofolio.
- 4- Group discussions (Case – based).

Methods of Student Assessment

1. Formative:

This is used to monitor student’s learning to provide ongoing feedback that can be used by instructors to improve their teaching and by students to improve their learning. It’s given once weekly and the answers are presented and discussed immediately with you after the assessment.

2. Summative

It is used to evaluate student’s achievements at the end of an instructional unit. The grades tell whether the student achieved the learning goal or not.

The student’s performance will be assessed according to the following:

Assessment task	Type of assessment	Proportion of total assessment	
		%	Marks
Mid term exam	At least 50% case based MCQ (best answer) 50% short answer questions,	20%	25
Portfolio (75% of its mark is a requirement to enter final exam)	Assignments Quizzes Formative assessment May include inscion academy certificates	10%	10
Final written exam	50% MCQ (best answer) 50% short answer questions unlabllediagrams, structured short assay	40%	40
Practical /clinical	OSPE OSCE ACC	30%	35
Total		100%	110

Block evaluation

- Students' results
- Students' feedback
- Tutors' feedback

Contents

Lecture Topics and Their Learning Outcomes

Choose one source for each topic You may use a different color for a different area/discipline

No.	Learning outcomes	Lectures Titles And specified reference (main source is Kaplan)	Week No.	Contact Hours
1	K1,K5,K9	Urological symptoms	1 st wk	1 hour
2	K2,K5,K9	Focused urological examination	1 st wk	1 hour
3	K3,K4,K5,K6	Urological investigations	2 nd wk	1
4	K1,K2,K3,K4,K5,K8,K9,K12,K13	Urinary tract trauma	2 nd wk	1
5	K1,K2,K3,K4,K5,K8,K9,K10,K11	Non specific Urinary tract infections	3 rd wk	1
6	K1,K2,K3,K4,K5,K8,K10,K11,K12	GU tuberculosis and schistosomiasis	3 rd wk	1
7	K1,K2,K3,K4,K5,K8,K9,K12,K13	Upper urinary tract congenital anomalies	4 th wk	1
8	K1,K2,K3,K4,K5,K8,K9,K12,K13	lower urinary tract congenital anomalies and testicular maldescent	4 th wk	1
9	K1,K2,K3,K4,K5,K8,K9,K10,K11	Bladder outlet obstruction BPH,urethral stricture	5 th wk	1

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10	K1,K2,K3,K4,K5,K8,K9,K10,K11	Hydronephrosis Vesicoureteral reflux and ureteric stricture	5 th wk	1
11	K1,K2,K3,K4,K5,K8,K9,K10,K11	General aspects of Urolithiasis Renal stones	6 th wk	1
12	K1,K2,K3,K4,K5,K8,K9,K10,K11	Ureteric, bladder and urethral stones	6 th wk	1
13	K1,K2,K5,K8,K10,K11	Erectile dysfunction Ejaculatory disorders	7 th wk	1
14	K1,K2,K3,K4,K5,K8,K9,K10,K11,K12,K13	Male subfertility Varicocele	7 th wk	1
15	K1,K2,K3,K4,K5,K8,K9,K10,K11,K13	Andrologic emergencies Male circumcision	8 th wk	1
16	K12,K13	Renal transplantation	8 th wk	1
17	K1,K2,K3,K4,K5,K8,K9,K10,K11,K12,K13	Urinary incontinence Nocturnal enuresis	9 th wk	1
18	K1,K2,K3,K4,K5,K8,K9,K10,K11,K12,K13	Neuropathic bladder Overactive bladder	9 th wk	1
19	K1,K2,K3,K4,K5,K8,K9	Renal tumors	11 th wk	1
20	K1,K2,K3,K4,K5,K8,K9	Bladder tumors	11 th wk	1
21	K1,K2,K3,K4,K5,K8,K9	Prostate and testicular tumors	12 th wk	1
22	K6,K7,K3,K12,K13	Urological catheters	12 th wk	1
23		Revision	13 th wk	1
24		Revision	13 th wk	1
		Total		24

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Skills and tasks and Their Learning Outcomes

No.	Learning outcomes S and A	Practical/Bedside/skill lab sessions and titles	Week number	Contact Hours
	S3,S4	KUB and MSCT	1	1
	S3,S4	Hydronephrosis imaging (U/S and MSCT)	2	1
	S3,S4	Urinary stones imaging (U/S, KUB and MSCT)	4	1
	S3,S4	Bladder cancer imaging (U/S and MSCT)	5	1
	S2,S8,A2,A5,A7	Loin examination	7	1
	S3,S4	Renal tumors imaging (U/S and MSCT)	8	1
	S5,S6	Urologic catheters	10	1
	S3,S4	Urine analysis	11	1
	S2,S8,A2,A3,A4,A5,A7	Male external genitalia examination	13	1
	S2,S8,A2,A3,A4,A5,A7	DRE	14	1
		Total		10

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Self Directed Learning and Group Discussion(SDL &GD)(cases scenario with 10 MCQs)

No.	Learning outcomes K,S and A	Title of cases and reference	Week number	Contact Hours
1.	S1,S4,S7,S8,A1,A4,A6,A7,A8	Lower Urinary Tract Symptoms (LUTS)	1	1
1.	S1,S2,S4,S7,S8,A1,A2,A4,A5, A6.A7, ,A8	loin pain	2	1
2.	S1,S4,S7,S8,A1,A4,A5,A6,A7,A8	Hematuria	4	1
3.	S1,S4,S7,S8,A1,A4,A6,A7,A8	Anuria and acute urinary retention	5	
4.	S1,S2,S4,S7,S8,A1,A2,A3,A4,A5,A6,A7,A8	Scrotal swelling	7	
5.	S1,S2,S3,S4,S7,S8,A1,A2,A4,A6,A7,A8	male subfertility and semen analysis	8	
6.	S1,S2,S8,A1,A2,A3,A4,A5,A6,A7,A8	Hypospadias	10	
7.	S1,S2,S7,S8,A1,A2,A3,A4,A5,A6,A7,A8	Testicular maldescent	11	
8.	S1,S2,S4,S7,S8,A1,A2,A3,A4,A5,A6,A7,A8	Acute scrotum	13	
9.	S1,S2,S4,S7,S8,A1,A2,A3,A4,A5,A6,A7,A8	BPH	14	
	Total			10

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Portofolio

No.	Week number	Task to be recorded in the portofolio	Quiz Case Based MCQs	Formative assessment
1.	1 st week	1-To examine and interpret KUB-X-ray and MSCT KUB 2-History taking of a case presented with LUTS	Answer the quiz of the current week lectures (e-learning).	
2.	2 nd week	1-To examine and interpret images of hydronephrosis cases (U/S and MSCT) 2- History taking of a case presented with loin pain	Answer the quiz of the current week lectures (e-learning).	
3.	3 rd week	Attendance at out-patient clinic	Answer the quiz of the current week lectures (e-learning).	
4.	4 th week	1-To examine and interpret images of urinary stones cases (U/S, KUB and MSCT) 2- History taking of a case presented with haematuria	Answer the quiz of the current week lectures (e-learning).	

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5.	5 th week	<p>1-To examine and interpret images of bladder cancer cases (US and MSCT)</p> <p>2- Evaluation of cases with inability to void (acute urine retention or anuria)</p>	<p>Answer the quiz of the current week lectures (e-learning).</p>	
6.	6 th week	<p>Attendance at urology ultrasound unit</p>	<p>Answer the quiz of the current week lectures (e-learning).</p>	
7.	7 th week	<p>1-Loin examination</p> <p>2- examination of a case presented with scrotal swelling.</p>	<p>Answer the quiz of the current week lectures (e-learning).</p>	
8.	8 th week	<p>1-To examine and interpret images of renal tumor cases (US and MSCT).</p> <p>2- To read and interpret semen analysis; normal and abnormal</p>	<p>Answer the quiz of the current week lectures (e-learning).</p>	

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9.	9 th week	Attendance at urological operative theatre	Answer the quiz of the current week lectures (e-learning).	
10.	10 th week	1-To be acquainted with the different types of urinary catheters and their uses. 2- To examine and evaluate a case with hypospadias	Answer the quiz of the current week lectures (e-learning).	Attend the formative assesment
11.	11 th week	1-To read and interpret urine analysis reports 2- To examine and evaluate a case with testicular maldescent	Answer the quiz of the current week lectures (e-learning).	
12.	12 th week	Attendance at out-patient clinic	Answer the quiz of the current week lectures (e-learning).	
13.	13 th week	1-Male external genitalia examination 2- Evaluation of a case with acute scrotum	Answer the quiz of the current week lectures (e-learning).	

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14.	14 th week	1-Digital rectal examination 2- To examine and evaluate a case with BPH	Answer the quiz of the current week lectures (e-learning).	
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Blueprint of the block

Written blueprint

No.	List of Topics (lectures/cases)	Learning outcomes	Weight* % From total	Total marks	End of the block	Final written exam
1.	Urological symptoms	K1,K5,K9	7.7	5		
2.	Focused urological examination	K2,K5,K9	4.6	3		
3.	Urological investigations	K3,K4,K5,K6	4.6	3		
4.	Urinary tract trauma	K1,K2,K3,K4 ,K5,K8,K9,K 12,K13	4.6	3		
5.	Urinary tract infections	K1,K2,K3,K4 ,K5,K8,K9,K 10,K11,K12	10.8	7		
6.	Genito-urinary tract congenital anomalies	K1,K2,K3,K4 ,K5,K8,K9,K 12,K13	7.7	5		
7.	Obstructive uropathy of the upper and lower urinary tract	K1,K2,K3,K4 ,K5,K8,K9,K 10,K11	10.8	7		
8.	Urolithiasis	K1,K2,K3,K4 ,K5,K8,K9,K 10,K11	12.3	8		
9.	Andrology	K1,K2,K3,K4 ,K5,K8,K9,K 10,K11,K12, K13	10.8	7		
10.	Renal transplantation	K12,K13	3.05	2		
11.	Voiding dysfunction and neuro-urology	K1,K2,K3,K4 ,K5,K8,K9,K 10,K11,K12, K13	7.7	5		
12.	Genito-urinary tumors	K1,K2,K3,K4 ,K5,K8,K9	12.3	8		
13.	Urological catheters	K6, K7, K3, K12, K13	3.05	2		

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Practical blueprint

	List of sessions/practical or clinical topics	Learning outcomes (S and A)	Weight* %From total	Number of stations/Cases	Marks
	History taking of urologic symptoms	S1,S2,S4,S7,S8,A1,A2, A4, A5, A6.A7, ,A8	28.5	1	10
	Focused urologic examination	S2,S8,A2,A3,A4,A5,A7	28.5	1	10
	Urologic imaging and laboratory investigation	S3, S4	28.5	2	10
	Urologic catheters	S5,S6	14.5	1	5

Weight*= decided according to hours, amounts of information and clinical significance

Lecture Outlines:

Lecture (1)

Title:Urologic symptoms

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12 Oxford Handbook of Urology (fourth edition 2019),chapter 2 P7

Specific learning Objectives:

To know all the urologic symptoms, their causes and how to analyse them through history taking to reach a provisional diagnosis, with special focusing on flank pain, anuria, acute urinary retention and hematuria.

Contents:

Upper urinary tract symptoms

Lower urinary tract symptoms (LUTS)

Male genital symptoms

Uremic manifestations

Urine changes

Lecture (2)

Title: Focused urological examination

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12 Oxford Handbook of Urology (fourth edition 2019),chapter 2 P7

Specific learning Objectives:

To know how to perform and elicit findings through loin examination, male external genital examination and digital rectal examination.

Contents:

Loin examination

Male external genital examination

DRE

Lecture (3)

Title: Urologic investigation

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12 Oxford Handbook of Urology (fourth edition 2019),chapter 3 P37

Specific learning Objectives:

To know the normal and abnormal findings in urine analysis.

To know the normal values of semen analysis, and to be able to identify various abnormalities in it.

To list the various imaging modalities used to investigate the urinary tract.

To be familiar with the normal appearance of the urinary tract on ultrasonography, KUB X-ray and MSCT.

Contents:

Urine and semen analysis

Various urologic imaging

Lecture (4)

Title: Urinary tract trauma

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12 Oxford Handbook of Urology (fourth edition 2019),chapter 11 P 515

Specific learning Objectives:

To know the etiology, mechanisms, clinical presentation and complications of trauma to the kidneys, bladder and urethra.

To be oriented with the appropriate management of different urologic traumas.

Contents:

Renal trauma

Urinary bladder trauma

Urethral trauma

Lecture (5)

Title: Non specific Urinary tract infections

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12 Oxford Handbook of Urology (fourth edition 2019),chapter 6 P193

Specific learning Objectives:

To know the etiology, pathology, clinical manifestations, complications, diagnosis and treatment for patients with non specific infections of genito-urinary tract.

Contents:

Acute and chronic pyelonephritis

pyonephrosis

Renal and peri-renal abscess

Cystitis

Urethritis

Acute epididymo-orchitis

Fourniere gangrene

Lecture (6)

Title: genito-urinary tuberculosis and schistosomiasis

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12 Oxford Handbook of Urology (fourth edition 2019),chapter 6 P193

Specific learning Objectives:

To know the pathology, clinical presentation, complications, diagnostic modalities and treatment for patients with genito-urinary TB.

To know the pathology, clinical presentation, complications, diagnosis and treatment for patients with urinary schistosomiasis.

Contents:

Genito-urinary TB

Urinary schistosomiasis

Lecture (7)

Title: Upper urinary tract congenital anomalies

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12
Oxford Handbook of Urology (fourth edition 2019),chapter 16 P 669

Specific learning Objectives:

To list the congenital anomalies of the kidneys and ureters

To know the clinical presentation and diagnosis of different renal anomalies.

Contents:

Renal congenital anomalies

Ureteric congenital anomalies

Lecture (8)

Title: lower urinary tract congenital anomalies and testicularmaldescent

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12
Oxford Handbook of Urology (fourth edition 2019),chapter 16 P 669

Specific learning Objectives:

To diagnose hypospadias, epispadias and bladder exstrophy clinically, and to be oriented with their appropriate management.

To know the types of testicular maldescent and how to diagnose and treat them

Contents:

Hypospadias, epispadias, bladder exstrophy and testicular maldescent

Lecture (9)

Title: Bladder outlet obstruction BPH, urethral stricture

Oxford Handbook of Urology (fourth edition 2019), chapter 4 P71

Specific learning Objectives:

To know the etiology, pathology, complications, diagnosis and treatment of bladder outlet obstruction, benign prostatic hyperplasia and urethral stricture.

Contents:

Bladder outlet obstruction

Benign prostatic hyperplasia

Urethral stricture

Lecture (10)

Title: Hydronephrosis, vesicoureteral reflux and ureteric stricture

Oxford Handbook of Urology (fourth edition 2019), chapter 10 P 501, chapter 16 P 669

Specific learning Objectives:

To know the causes and sequelae of hydronephrosis.

To describe clinical presentation, diagnostic modalities and treatment for patients with hydronephrosis.

Contents:

Hydronephrosis

Vesicoureteral reflux

Ureteric stricture

Lecture (11)

Title: General aspects of Urolithiasis and renal stones

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter

12 Oxford Handbook of Urology (fourth edition 2019), chapter 9 P 437

Specific learning Objectives:

Urology. Study Guide

To know the etiology, clinical manifestations, complications, and treatment plans for renal stones.

To know how renal stones appear on ultrasonography, KUB X-ray and MSCT.

Contents:

General aspects of Urolithiasis

Renal stones

Lecture (12)

Title: Ureteric, bladder and urethral stones

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12 Oxford Handbook of Urology (fourth edition 2019),chapter 9 P 437

Specific learning Objectives:

To know the etiology, clinical manifestations, complications, and treatment plans for ureteric, bladder and urethral stones.

To know how ureteric, bladder and urethral stones appear on ultrasonography, KUB X-ray and MSCT.

Contents:

Ureteric stones

Bladder stones

Urethral stones

Lecture (13)

Title: Erectile dysfunction and Ejaculatory disorders

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12 Oxford Handbook of Urology (fourth edition 2019),chapter 13 P 581

Specific learning Objectives:

To know the etiology, diagnostic modalities and treatment plans for patients with erectile dysfunction and ejaculatory disorders.

Contents:

Erectile dysfunction

Ejaculatory disorders.

Lecture (14)

Title: Male subfertility and Varicocele

Oxford Handbook of Urology (fourth edition 2019),chapter 12 P 555

Specific learning Objectives:

To describe the etiology, diagnostic modalities and treatment plans for patients with male subfertility and varicocele.

Contents:

Male subfertility

Varicocele

Lecture (15)

Title: Andrologic emergencies and Male circumcision

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12 Oxford Handbook of Urology (fourth edition 2019),chapter 11 P 515

Specific learning Objectives:

To be able to diagnose various andrologic emergencies and to be oriented with their appropriate management.

To know the indications, techniques and complications of circumcision.

Contents:

Andrologic emergencies

Male circumcision

Lecture (16)

Title: Renal transplantation

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 13 Oxford Handbook of Urology (fourth edition 2019),chapter 18 P 827

Specific learning Objectives:

Urology. Study Guide

To know the advantages of renal transplantation over dialysis as a renal replacement therapy.

To know the contraindications, prerequisites and complications of renal transplantation

Contents:

Renal transplantation

Lecture (17)

Title: Urinary incontinence and Nocturnal enuresis

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12

Oxford Handbook of Urology (fourth edition 2019),chapter 5 P 129,chapter 16 P 669

Specific learning Objectives:

To know the types of urinary incontinence, how to differentiate between them and the broad lines of their treatment.

To know the etiology, clinical presentation, diagnostic modalities and treatment plans for patients with nocturnal enuresis.

Contents:

Urinary incontinence

Nocturnal enuresis

Lecture (18)

Title: Neuropathic bladder and Overactive bladder

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter

12 Oxford Handbook of Urology (fourth edition 2019),chapter 14 P 621

Specific learning Objectives:

To know the etiology, clinical presentation, diagnostic modalities and treatment plans for patients with overactive bladder and neuropathic bladder.

Contents:

Neuropathic bladder

Overactive bladder

Lecture (19)

Title: Renal tumors

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12 Oxford Handbook of Urology (fourth edition 2019),chapter 7 P 252

Specific learning Objectives:

To know the classification pathology, clinical presentation, investigations and management strategies of renal tumors

Contents:

Renal tumors

Lecture (20)

Title: Bladder tumors

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12 Oxford Handbook of Urology (fourth edition 2019),chapter 7 P 252

Specific learning Objectives:

To know the classification pathology, clinical presentation, investigations and management strategies of bladder cancer.

To list the various types of urinary diversions after radical cystectomy.

Contents:

Bladder tumors

Lecture (21)

Title: Prostate and testicular tumors

USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12 Oxford Handbook of Urology (fourth edition 2019),chapter 7 P 252

Specific learning Objectives:

Urology. Study Guide

To mention the pathology, diagnosis and treatment strategies of prostate cancer and testicular tumors.

Contents:

Prostate cancer

Testicular tumors

Lecture (22)

Title: Urological catheters

Oxford Handbook of Urology (fourth edition 2019),chapter 17 P 731

Specific learning Objectives:

To list and identify the various types of catheters used in urologic practice and their indications and contraindications.

To know the appropriate technique of urethral catheterization.

Contents:

Urethral and ureteric catheters

Percutaneous nephrostomy and cystostomy tubes

Outlines of topics for self directed learning and case based discussions

Case 1: Lower urinary tract symptoms

Related lectures: Urological symptoms, Bladder outlet obstruction, Neuropathic bladder & Overactive bladder. number 1, 9, 18

Title: Lower urinary tract symptoms

Source: Oxford Handbook of Urology (fourth edition 2019), chapter 2 P7, chapter 4 P71, chapter 14 P 621

Specific learning Objectives: To know the lower urinary tract symptoms, their causes and how to analyse them through history taking to reach a provisional diagnosis

Case 2: Benign prostatic hyperplasia

Related lectures: Urological symptoms, Bladder outlet obstruction, Neuropathic bladder & Overactive bladder. number 1, 9, 18

Title: Benign prostatic hyperplasia

Source: Oxford Handbook of Urology (fourth edition 2019), chapter 2 P7, chapter 4 P71, chapter 14 P 621

Specific learning Objectives: To know the presentation, physical signs, essential investigations, complications and main lines of treatment in a case with benign prostatic hyperplasia

Case 3: Hematuria

Related lectures: Urological symptoms, General aspects of Urolithiasis, Renal tumors, Bladder tumors. number 1, 11, 19, 20

Title: Hematuria

Source: USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12

Oxford Handbook of Urology (fourth edition 2019), chapter 2 P7, chapter 9 P 437, chapter 7 P 252

Specific learning Objectives: To know the causes of hematuria and how to differentiate between them through history taking, physical examination and investigations

Case 4: Loin pain

Related lectures: Urological symptoms, Hydronephrosis, General aspects of Urolithiasis. number 1, 10, 11

Title: Loin pain

Source: Oxford Handbook of Urology (fourth edition 2019), chapter 2 P7, chapter 16 P 669, chapter 9 P 437

Specific learning Objectives: To know the causes of loin pain and how to differentiate between them through history taking, physical examination and investigations

Urology. Study Guide

Case 5: Anuria

Related lectures: Urological symptoms, General aspects of Urolithiasis. number 1, 11

Title: Anuria

Source: Oxford Handbook of Urology (fourth edition 2019),chapter 2 P7, chapter 4 P71

SpecificlearningObjectives: To know the definition, types and causes of anuria and how to manage

Case 6: Acute urinary retention

Related lectures: Urological symptoms, Bladder outlet obstruction,. number 1, 9

Title: Acute urinary retention

Source: USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12

Oxford Handbook of Urology (fourth edition 2019),chapter 2 P7, chapter 4 P71

SpecificlearningObjectives: To know the definition, types and causes of urinary retention and how to manage

Case 7: Scrotal swelling and acute scrotum

Related lectures: Focused urologic examinations,Andrologic emergencies. number 2, 15

Title: Scrotal swelling and acute scrotum

Source: USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12

Oxford Handbook of Urology (fourth edition 2019),chapter 2 P7, chapter 11 P 515

SpecificlearningObjectives: To knowcauses of scrotal swellings and acute scrotal conditions in addition toanalyse them through history taking and clinical examination to reach a provisional diagnosis and how to select the proper treatment

Case 8: Hypospadias

Related lectures: Focused urologic examinations,lower urinary tract congenital anomalies. number 2, 8

Title: Hypospadias

Source: USMLE Step 2 CK lecture notes on surgery (Kaplan Medical 2019) Chapter 12

Oxford Handbook of Urology (fourth edition 2019),chapter 2 P7, chapter 16 P 669

SpecificlearningObjectives: To know how to examine and evaluate a case with hypospadias

Case 9: Testicular maldescent

Related lectures: Focused urologic examinations, Testicular maldescent. number 2, 8

Title: Testicular maldescent

Source: Oxford Handbook of Urology (fourth edition 2019), chapter 2 P7, chapter 16 P 669

Specific learning Objectives: To know the types of testicular maldescent and how to differentiate between them through history taking and clinical examination

Outlines of practical/ clinical sessions

Session (1)

Title: KUB and MSCT.

Specific learning Objectives

- To be able to examine and interpret the normal findings detected by KUB-X-ray and MSCT KUB

Session (2)

Title: Imaging of hydronephrosis.

Specific learning Objectives

- To be able to examine and interpret images of hydronephrosis including ultrasonography and MSCT

Session (3)

Title: Imaging of urinary tract stones.

Specific learning Objectives

- To be able to examine and interpret images of urinary stones including ultrasonography, KUB and MSCT

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Session (4)

Title: Imaging of bladder cancer.

Specific learning Objectives

- To be able to examine and interpret images of bladder cancer including ultrasonography and MSCT

Session (5)

Title: Loin examination.

Specific learning Objectives

- To be able to examine the loin to detect any abnormal findings at this region.

Session (6)

Title: Imaging of renal tumors.

Specific learning Objectives

- To be able to examine and interpret images of renal tumors including ultrasonography and MSCT

Session (7)

Title: Urologic catheters.

Specific learning Objectives

- To be able to identify different urologic catheters and their specific indications

Session (8)

Title: Urine analysis.

Specific learning Objectives

- To be able to read and interpret the normal and abnormal findings on urine analysis

Session (9)

Title: Semen analysis.

Specific learning Objectives

- To be able to read and interpret the normal and abnormal findings on semen analysis

Session (10)

Title: Male external genitalia examination.

Specific learning Objectives

Urology. Study Guide

- To be able to examine the male external genitalia to detect any abnormal findings at this region.

Session (11)

Title: Digital rectal examination.

Specific learning Objectives

- To be able to perform digital rectal examination for the adult male to detect any abnormal finding

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Time Table of the block