

# **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**

**Prof.DR / Elnisr Rashed Mohamed Saber. MD,  
PhD..**

**2024-2025**

**Contact Information of Staff Responsible for Block**

**URO-528 (code)**

| <b>URO-528 (code)</b>                                                                                        |  |
|--------------------------------------------------------------------------------------------------------------|--|
| <b>Coordinator(s)</b>                                                                                        |  |
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|                                                                                                              |  |
|                                                                                                              |  |
| <b>Heads of the sharing Departments</b>                                                                      |  |
| <b>Prof. Dr : Elnisr Rashed</b>                                                                              |  |
|                                                                                                              |  |
|                                                                                                              |  |

**Departments Coordinators**

|                                           |                                      |
|-------------------------------------------|--------------------------------------|
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| <b>Prof. Dr : Ahmed Rashed</b>            | <b>Prof. Dr : Ahmed Ryad</b>         |
| <b>Prof. Dr : Elnisr Rashed</b>           | <b>Prof. Dr :Ahmed Elsherief</b>     |
| <b>Prof. Dr : Ahmed Mammdouh</b>          | <b>Dr Tarek Ahmed</b>                |



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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

**Suggested position in the curriculum map**

5<sup>TH</sup> level, 1<sup>ST</sup> semester.

**Date of specification approval: September. 2024**

⊖ **Title: Urology**

⊖ **Code: URO-528**

⊖ **Credit points : 5.5 points**

⊖ **Weeks: 4 weeks**

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

⊖ **Practicals/clinical (laboratory/simulation skill lab/bedside teaching) : 10 contact hours**

⊖ **Small Case based group discussions: 66 contact hours**

⊖ **Student self learning activities: 65 hours**

Portfolio: (8)

Formative assessment (0.5 point= 15 hours)

Total hours: 165 hours

## 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/semest                   |
|-------------------------------------------|-------------|------------------------------|----------|---------|------------------------|--------------|--------------------------------|
| 2 h                                       | 110         | 4 hour per week for 14 weeks | 5.5      | URO-528 | UROLOGY                | Urology      | 5 <sup>th</sup> medical school |

student achievement

**NARS competencies the block is expected to share in their student achievement**

| NARS areas | NARS key competencies                                                                                                                                                                                   |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | 1.2. Adopt an empathic and holistic approach to the patients and their problems.                                                                                                                        |
|            | 1.3 Assess the mental state of the patient.                                                                                                                                                             |
|            | 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.                       |
|            | 1.5. Prioritize issues to be addressed in a patient encounter.                                                                                                                                          |
|            | 1.6. Select the appropriate investigations and interpret their results taking into consideration cost/ effectiveness factors.                                                                           |
|            | 1.7. Recognize and respond to the complexity, uncertainty, and ambiguity inherent in medical practice.                                                                                                  |
|            | 1.8. Apply knowledge of the clinical and biomedical sciences relevant to the clinical problem at hand.                                                                                                  |
|            | 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.                                              |
|            | 1.12. Adopt strategies and apply measures that promote patient safety.                                                                                                                                  |
|            | 1.13. Establish patient-centered management plans in partnership with the patient, his/her family and other health professionals as appropriate, using Evidence Based Medicine in management decisions. |
|            | 1.14. Respect patients' rights and involve them and /or their                                                                                                                                           |





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|                                             | families/careers in management decisions.                                                                                                                                                                                                                                                            |
|                                             | 1.15. Provide the appropriate care in cases of emergency, including cardio-pulmonary resuscitation, immediate life support measures and basic first aid procedures.                                                                                                                                  |
| 2- The graduate as a health promoter.       | 2.3 Discuss the role of nutrition and physical activity in health.                                                                                                                                                                                                                                   |
|                                             | 2.5 Describe the principles of disease prevention, and empower communities, specific groups or individuals by raising their awareness and building their capacity.                                                                                                                                   |
|                                             | 2.6 Recognize the epidemiology of common diseases within his/her community, and apply the systematic approaches useful in reducing the incidence and prevalence of those diseases.                                                                                                                   |
|                                             | 2.9 Adopt suitable measures for infection control.                                                                                                                                                                                                                                                   |
| 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 respect.                                                                                                                                 |
|                                             | 3.3. Respect the different cultural beliefs and values in the community they serve.                                                                                                                                                                                                                  |
|                                             | 3.4. Treat all patients equally, and avoid stigmatizing any category regardless of their social, cultural, ethnic backgrounds, or their disabilities.                                                                                                                                                |
|                                             | 3.5. Ensure confidentiality and privacy of patients' information.                                                                                                                                                                                                                                    |
|                                             | 3.6. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors.                                                                                                                                                                                              |
|                                             | 3.7. Recognize and manage conflicts of interest.                                                                                                                                                                                                                                                     |
|                                             | 3.8. Refer patients to appropriate health facility at the appropriate stage.                                                                                                                                                                                                                         |
|                                             | 3.9. Identify and report any unprofessional and unethical behaviors or physical or mental conditions related to himself, colleagues or any other person that might jeopardize patients' safety.                                                                                                      |
| 4- The graduate as a scholar and scientist. | 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).                                                                 |
|                                             | 4.7 Describe drug actions: therapeutics and pharmacokinetics; side effects and interactions, including multiple treatments, long term conditions and non-prescribed medication; and effects on the population.                                                                                       |
|                                             | 4.8 Demonstrate basic sciences specific practical skills and procedures relevant to future practice, recognizing their scientific basis, and interpret common diagnostic modalities, including: imaging, electrocardiograms, laboratory assays, pathologic studies, and functional assessment tests. |
| 5- The graduate as a member of the health   | 5.1 Recognize the important role played by other health care professions in patients' management.                                                                                                                                                                                                    |
|                                             | 5.2 Respect colleagues and other health care professionals and                                                                                                                                                                                                                                       |

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|                                                       |                                                                                                                                                                         |
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| team and a part of the health care system.            | work cooperatively with them, negotiating overlapping and shared responsibilities and engaging in shared decision-making for effective patient management.              |
|                                                       | 5.3 Implement strategies to promote understanding, manage differences, and resolve conflicts in a manner that supports collaborative work.                              |
|                                                       | 5.4 Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system.                                              |
|                                                       | 5.5 Communicate effectively using a written health record, electronic medical record, or other digital technology.                                                      |
|                                                       | 5.6 Evaluate his/her work and that of others using constructive feedback.                                                                                               |
|                                                       | 5.7 Recognize own personal and professional limits and seek help from colleagues and supervisors when necessary.                                                        |
|                                                       | 5.9 Use health informatics to improve the quality of patient care.                                                                                                      |
|                                                       | 5.10 Document clinical encounters in an accurate, complete, timely, and accessible manner, in compliance with regulatory and legal requirements.                        |
| 6- The graduate as a lifelong learner and researcher. | 5.12 Demonstrate accountability to patients, society, and the profession.                                                                                               |
|                                                       | 6.1 Regularly reflect on and assess his/her performance using various performance indicators and information sources.                                                   |
|                                                       | 6.2 Develop, implement, monitor, and revise a personal learning plan to enhance professional practice                                                                   |
|                                                       | 6.3 Identify opportunities and use various resources for learning.                                                                                                      |
|                                                       | 6.4 Engage in inter-professional activities and collaborative learning to continuously improve personal practice and contribute to collective improvements in practice. |
|                                                       | 6.6 Effectively manage learning time and resources and set priorities.                                                                                                  |
|                                                       | 6.8 Critically appraise research studies and scientific papers in terms of integrity, reliability, and applicability.                                                   |
|                                                       | 6.10 Summarize and present to professional and lay audiences the findings of relevant research and scholarly inquiry.                                                   |

### Professional Information

### Block Aims

#### Overall Aims

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 .

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### Learning Outcomes of **the Block**:

**Each competency will be broken down into one or more learning outcomes that may be A, C or D or all.**

| <b>NARS<br/>Key<br/>competencies</b>                       | <b>Learning outcomes for each key<br/>competencies</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Domain<br/>in<br/>Know<br/>Know<br/>how<br/>Show<br/>how<br/>Does</b>                         | <b>Teaching<br/>method</b>                                                                                              | <b>Assessment<br/>method</b>                                    |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 1. Take and record a structured, patient centered history. | <p>A1.<br/>To know causes and differential diagnosis of the common urological complaints including the following:<br/>           1-flank pain<br/>           2-hematuria<br/>           3-Obstructive anuria<br/>           4-acute urinary retention<br/>           5-acute scrotum<br/>           6-lower urinary tract symptoms<br/>           7-urinary incontinence<br/>           8-erectile dysfunction<br/>           9-male subfertility</p> <p>C1. A.1<br/>obtain a focused history for analysis of the common urological complaints including the following:<br/>           1-Flank pain<br/>           2-hematuria<br/>           3-Obstructive anuria<br/>           4-acute urinary retention<br/>           5-acute scrotum<br/>           6-lower urinary tract symptoms<br/>           7-urinary incontinence</p> | <p><b>Know</b><br/><b>Know</b><br/><b>how</b><br/><b>Show</b><br/><b>how</b><br/><b>Does</b></p> | <p><b>Lectures</b><br/><b>Out - patient clinic attendance</b><br/><b>Clinical rounds</b><br/><b>Case discussion</b></p> | <p><b>MCQ</b><br/><b>OSCE</b><br/><b>Short answer essay</b></p> |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 4. Perform appropriately needed physical examination of patients appropriately to age, gender, and clinical presentation of the patient while being culturally sensitive. | <p><b>A2:</b><br/>To know how to examine the peculiar urologic regions: (the loins, male external genitalia and male pelvic examination).</p> <p><b>C2:</b><br/>To perform physical examination for the loins, male external genitalia and digital rectal examination.</p> <p><b>A2:</b><br/>Recognize and maintain isolation and privacy all through patients examination.</p>                         | <p><b>Know</b></p> <p><b>Know</b></p> <p><b>how</b></p> <p><b>Show</b></p> <p><b>how</b></p> | <p>Lectures</p> <p>Out -patient clinic attendance</p> <p>Clinical rounds</p> <p>Case discussion</p> | <p><b>MCQ</b></p> <p><b>OSPE</b></p> <p><b>OSCE</b></p>                                                        |
| 6. Select the appropriate investigations and interpret their results taking into consideration cost/ effectiveness factors.                                               | <p><b>A.3</b></p> <p>To know the common urological investigations including :</p> <p>1-urine analysis</p> <p>2-serum creatinine</p> <p>3-semen analysis</p> <p>4-abdominal and scrotal ultrasonography</p> <p>5-KUB x ray and IVU</p> <p>6-Non Contrast and contrast abdomino-pelvic MSCT</p> <p>7-MRI</p> <p>8-Renal radio-isotope scan</p> <p><b>A. 4</b></p> <p>To know the main indications and</p> | <p><b>Know</b></p> <p><b>Know</b></p> <p><b>how</b></p>                                      | <p>Lectures</p> <p>Clinical rounds</p> <p>Attendance in out-patient clinic and ultrasound unit</p>  | <p><b>Portfolio</b></p> <p><b>io</b></p> <p><b>MCQ</b></p> <p><b>OSPE</b></p> <p><b>Short answer essay</b></p> |

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|                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                              |                                                                                                                                                                                                        |                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                              | <p>contraindications of the urological investigations</p> <p><b>C.3</b></p> <p>To be able to identify normal and abnormal findings in the forementioned investigations</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                              |                                                                                                                                                                                                        |                                                                                                                            |
| <p>10. Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation.</p> | <p><b>A.5</b></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"> <li>1. Genito-urinary infections</li> <li>2. Obstructive uropathy</li> <li>3. Urolithiasis</li> <li>4. Urinary tract trauma</li> <li>5. Genito-urinary congenital anomalies</li> <li>6. Genito-urinary tumors</li> <li>7. Neuropathic bladder</li> <li>8. Urinary incontinence</li> <li>9. Erectile dysfunction</li> <li>10. Male subfertility</li> <li>11. Andrologic emergencies</li> </ol> <p><b>C.</b></p> <p>To choose the appropriate investigations and interpret their findings to diagnose theforementioned diseases</p> | <p><b>Know</b></p> <p><b>Know</b></p> <p><b>how</b></p> <p><b>Show</b></p> <p><b>how</b></p> | <p><b>Lectures</b></p> <p><b>Out -</b></p> <p><b>patient</b></p> <p><b>clinic</b></p> <p><b>attendance</b></p> <p><b>Clinical</b></p> <p><b>rounds</b></p> <p><b>Case</b></p> <p><b>discussion</b></p> | <p><b>Portfolio</b></p> <p><b>MCQs</b></p> <p><b>OSPE</b></p> <p><b>Short</b></p> <p><b>answer</b></p> <p><b>essay</b></p> |

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|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 11. Perform agnostic and intervention procedures in a skillful and safe manner, adapting to anticipated findings or changing clinical circumstances. | <p><b>A6:</b><br/>To know the appropriate catheter type and size for each patient.</p> <p><b>A 7:</b><br/>To know the technique, indications, contraindications and complications of urethral catheterization .</p> <p><b>C5:</b><br/>To perform both male and female urethral catheterization on a model.</p> <p><b>C6:</b><br/>To be able to remove the indwelling urethral catheters on a model.</p> | <p><b>Know</b><br/><b>Know</b><br/><b>how</b><br/><b>Show</b><br/><b>how</b></p> | <p><b>Lectures</b><br/><b>Out -patient clinic attendance</b><br/><b>Clinical rounds</b><br/><b>Case discussion</b><br/><b>Attendance at the operative theatre</b></p> | <p><b>Portfolio</b><br/><b>io</b><br/><b>MCQs</b><br/><b>OSPE</b><br/><b>Short answer essay</b></p> |
| 14. Respect patients' rights and involve them and /or their families/carers in management decisions.                                                 | <p><b>A.3</b><br/>To obtain informed patient consent for genital and DRE</p> <p><b>A.4</b><br/>Exhibit honesty and integrity with patients and their families</p> <p><b>A.5</b><br/>Recognize and maintain boundaries and privacy when interacting with patients.</p>                                                                                                                                   | <p><b>Show</b><br/><b>how</b></p>                                                | <p><b>Out-patient clinic</b><br/><b>Case discussion</b></p>                                                                                                           | <p><b>Portfolio</b><br/><b>io</b><br/><b>OSCE</b></p>                                               |
| 4 Identify the major health risks in his/her community, including demographic, occupational                                                          | <p><b>A 8:</b><br/><b>To recognize and early detect the risk factors for the following diseases:</b><br/><b>1. Urinary stones</b></p>                                                                                                                                                                                                                                                                   | <p><b>Know</b><br/><b>Know</b><br/><b>how</b><br/><b>Show</b></p>                | <p><b>Lectures</b><br/><b>Out - patient clinic</b></p>                                                                                                                | <p><b>Portfolio</b><br/><b>io</b><br/><b>MCQs</b></p>                                               |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------|
| <p>d<br/>v<br/>ironmental<br/>isks; endemic<br/>seases, and<br/>evalent<br/>ronic<br/>seases.</p>                                                                         | <p>2. Male subfertility</p> <p>3. <b>Erectile dysfunction</b></p> <p>4. UTI</p> <p>5. Obstructive uropathy</p> <p>6. Urinary incontinence</p> <p>7. Genito urinary tumors</p> <p><b>C7</b></p> <p><b>To obtain medical history to identify the possible risk factors of previously mentioned conditions in K 7.</b></p> <p><b>C 8:</b></p> <p><b>To be able to spot abnormal physical findings related to the risk factors of the previously mentioned conditions in A7.</b></p> | <p><b>how</b></p>      | <p><b>attendance</b></p> <p><b>Clinical rounds</b></p> <p><b>Case discussion</b></p> | <p><b>OSCE</b></p> <p><b>Short answer essay</b></p> |
| <p>1. Exhibit appropriate professional behaviors and relationships in all aspects of practice, demonstrating honesty, integrity, commitment, compassion, and respect.</p> | <p><b>A6</b></p> <p>To be able to give feedback to colleagues in an informative and respectful manner</p> <p><b>A7</b></p> <p>To exhibit professional behavior during history taking, physical examination and counseling of the patient</p>                                                                                                                                                                                                                                     | <p><b>Show how</b></p> | <p><b>Out - patient clinic attendance</b></p> <p><b>Clinical rounds</b></p>          | <p><b>Portfolio OSCE</b></p>                        |
| <p>5. Ensure confidentiality and privacy of</p>                                                                                                                           | <p><b>A8</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p><b>Show</b></p>     | <p><b>Out -</b></p>                                                                  | <p><b>Portfolio</b></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                                                                     |
| 8. Refer patients to appropriate health facility at the appropriate age.                                                                                                                                                             | <b>A9:</b><br><b>To identify urological conditions that should be referred to urologist especially urologic emergencies</b>                                                                                                                                                     | <b>Know</b><br><b>Know</b><br><b>how</b> | <b>Lectures</b><br><b>Out - patient clinic attendance Clinical rounds Case discussion</b> | <b>Portfolio</b><br><b>MCQs</b><br><b>OSCE</b><br><b>Short answer essay</b> |
| 5 Identify various causes genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, degenerative, and traumatic) .<br><br>ness/disease and explain the ways in which they operate on the body (pathogenesis). | <b>A10</b><br><b>To know the etiology of the following diseases:</b><br><br><b>1. UTI</b><br><b>2. Urolithiasis</b><br><b>3. Obstructive uropathy</b><br><br><b>4. Erectile dysfunction and male Subfertility</b><br><br><b>5. Voiding dysfunction and urinary incontinence</b> | <b>know</b>                              | <b>Lectures</b><br><b>Case discussion</b>                                                 | <b>MCQs</b><br><b>Short answer essay</b>                                    |



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|                                                                                 | <b>A 11</b><br><br>To know the pathogenesis of previously mentioned benign conditions                                                                                                                                                                                                   |                 |                                                                                |                                        |
| 1 Recognize the importance played by other health care professions' management. | <b>A 12</b><br><br><b>To know</b> the indications in which the urologist should consult other specialities e.g: nephrology, general surgery, pediatric, orthopedic, obstetric... etc<br><br><b>A 13</b><br><br>To know the indications in which non urologists should consult urologist | <b>Know how</b> | <b>Lectures</b><br><br><b>Case discussion</b><br><br><b>Out-patient clinic</b> | <b>portfolio</b><br><br><b>of MCQs</b> |

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### Structure of the block

| <i>Week</i>      | <b>Lectures<br/>(NUMBER)</b> | <b>Practical<br/>(NUMBER)</b> | <b>PORTFLIO<br/>TASKS<br/>(NUMBER)</b> | <b>CASE<br/>BASED<br/>Discussions<br/>(NUMBER)</b> | <b>Formative<br/>Assessment<br/>(NUMBER)</b> | <b>Revisions<br/>and<br/>Exams</b> | <b>Total</b> |
|------------------|------------------------------|-------------------------------|----------------------------------------|----------------------------------------------------|----------------------------------------------|------------------------------------|--------------|
| 1 <sup>st</sup>  | 2                            | 1                             |                                        | 1                                                  |                                              |                                    | 4            |
| 2 <sup>nd</sup>  | 2                            | 1                             |                                        | 1                                                  |                                              |                                    | 4            |
| 3 <sup>rd</sup>  | 2                            |                               | 2                                      |                                                    |                                              |                                    | 4            |
| 4 <sup>th</sup>  | 2                            | 1                             |                                        | 1                                                  |                                              |                                    | 4            |
| 5 <sup>th</sup>  | 2                            | 1                             |                                        | 1                                                  |                                              |                                    | 4            |
| 6 <sup>th</sup>  | 2                            |                               | 2                                      |                                                    |                                              |                                    | 4            |
| 7 <sup>th</sup>  | 2                            | 1                             |                                        | 1                                                  |                                              |                                    | 4            |
| 8 <sup>th</sup>  | 2                            | 1                             |                                        | 1                                                  |                                              |                                    | 4            |
| 9 <sup>th</sup>  | 2                            |                               | 2                                      |                                                    |                                              |                                    | 4            |
| 10 <sup>th</sup> |                              | 1                             |                                        | 1                                                  |                                              |                                    | 4            |
| 11 <sup>th</sup> | 2                            | 1                             |                                        | 1                                                  |                                              |                                    | 4            |
| 12 <sup>th</sup> | 2                            |                               | 2                                      |                                                    |                                              |                                    | 4            |
| 13 <sup>th</sup> | 2                            | 1                             |                                        | 1                                                  |                                              |                                    | 4            |
| 14 <sup>th</sup> |                              | 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 at least once in the form of quizzes that is made available for the students at the E-learning site at the end of the block.

Answers are presented instantly after the attempts and discussed on the students groups or in person with the teaching staff

Questions should be consistent with the level of the final exam. The student's attendance is a condition for entering the summative exams. The electronic or paper achievement file must be used to follow up on the students' evaluation, and its completion is a condition for entering the final exams

#### 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 case based<br>MCQ (best answer)                                                      | 20%                            | 22    |
| Portfolio<br>(75% of its mark is a requirement to enter final exam) | Assignments<br>Quizzes<br>Formative assessment<br>May include inscion<br>academy certificates | 10%                            | 11    |
| Final written exam                                                  | 75% MCQ (best answer)<br>25% short answer questions<br>And modified short essay               | 40%                            | 44    |
| Practical /clinical                                                 | OSPE<br>OSCE<br>ACC                                                                           | 30%                            | 33    |

## Urology. Study Guide

|                       |                                                   |             |            |
|-----------------------|---------------------------------------------------|-------------|------------|
| <b>Total</b>          |                                                   | <b>100%</b> | <b>110</b> |
| <b>الدور الثاني</b>   |                                                   |             |            |
| <b>Final exam</b>     | 25% Short answer qs and modified essay qs.... 75% | <b>60%</b>  | <b>66</b>  |
| <b>Practical exam</b> | OSCE, OSPE, ACC                                   | <b>40%</b>  | <b>44</b>  |
| <b>Total</b>          |                                                   | <b>100%</b> | <b>110</b> |

### 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<br>And specified reference<br>(main source is Kaplan) | Week<br>No. | Contact<br>Hours |
|-----|------------------------------|-----------------------------------------------------------------------|-------------|------------------|
| 1   | A1,A5,A9                     | Urological<br>symptoms                                                |             | 1<br>Hour        |
| 2   | A2,A5,A9                     | Focused urological<br>examination                                     |             | 1<br>Hour        |
| 3   | A3,A4,A5,A6                  | Urological<br>investigations                                          |             | 1                |
| 4   | A1,A2,A3,A4,A5,A8,A9,A12,A13 | Urinary tract<br>trauma                                               |             | 1                |
| 5   | A1,A2,A3,A4,A5,A8,A9,A10,A11 | Non specific Urinary<br>tract infections                              |             | 1                |

## Urology. Study Guide

|   |                               |                                                                    |  |   |
|---|-------------------------------|--------------------------------------------------------------------|--|---|
| 6 | A1,A2,A3,A4,A5,A8,A10,A11,A12 | GU tuberculosis and schistosomiasis                                |  | 1 |
| 7 | A1,A2,A3,A4,A5,A8,A9,A12,A13  | Upper urinary tract congenital anomalies                           |  | 1 |
| 8 | A1,A2,A3,A4,A5,A8,A9,A12,A13  | lower urinary tract congenital anomalies and testicular maldescent |  | 1 |
| 9 | A1,A2,A3,A4,A5,A8,A9,A10,A11  | Bladder outlet Obstruction BPH,urethral Stricture                  |  | 1 |

## Urology. Study Guide

|    |                                                                |                                                                      |                    |    |
|----|----------------------------------------------------------------|----------------------------------------------------------------------|--------------------|----|
| 10 | A1,A2,A3,A4,A5,A8,A9,A10,A11                                   | Hydronephrosis<br>Vesicoureteral<br>reflux and ureteric<br>stricture | 5 <sup>th</sup> wk | 1  |
| 11 | A1,A2,A3,A4,A5,A8,A9,A10,A11                                   | General aspects of<br>Urolithiasis<br>Renal stones                   |                    | 1  |
| 12 | A1,A2,A3,A4,A5,A8,A9,A10,A11                                   | Ureteric, bladder and<br>urethral stones                             |                    | 1  |
| 13 | A1,A2,A3,A4,A5,A8,A9,A10,A11                                   | Erectile<br>dysfunction<br>Ejaculatory<br>disorders                  |                    | 1  |
| 14 | A1,A2,A3,A4,A5, A1,A2,A3,A4,A5,A8,A9,<br>A8,A9,A12,A13 A12,A13 | Male subfertility<br>Varicocele                                      |                    | 1  |
| 15 | A1,A2,A3,A4,A5,A8,A9,A12,A13                                   | A1,A2,A3,A4,A5,A8,A9,<br>A12,A13                                     |                    | 1  |
| 16 | A12,A13                                                        | Renal transplantation                                                |                    | 1  |
| 17 | A1,A2,A3,A4,A5,A8,A9,A12,A13                                   | Urinary incontinence<br>Nocturnal enuresis                           |                    | 1  |
| 18 | A1,A2,A3,A4,A5,A8,A9,A12,A13                                   | Neuropathic bladder<br>Overactive bladder                            |                    | 1  |
| 19 | A1,A2,A3,A4,A5,A8,A9,                                          | Renal tumors                                                         |                    | 1  |
| 20 | A1,A2,A3,A4,A5,A8,A9,                                          | Bladder tumors                                                       |                    | 1  |
| 21 | A1,A2,A3,A4,A5,A8,A9,                                          | Prostate and testicular<br>tumors                                    |                    | 1  |
| 22 | A6,A7,A3,A12,A13                                               | Urological catheters                                                 |                    | 1  |
| 23 |                                                                | Revision                                                             |                    | 1  |
| 24 |                                                                | Revision                                                             |                    | 1  |
|    |                                                                | <b>Total</b>                                                         |                    | 24 |

## Urology. Study Guide

### Skills and tasks and Their Learning Outcomes

| No. | Learning outcomes<br>C and D | Practical/Bedside/skill<br>lab sessions and titles | Week<br>number | Contact<br>Hours |
|-----|------------------------------|----------------------------------------------------|----------------|------------------|
|     | C3,C4                        | KUB and MSCT                                       | 1              | 1                |
|     | C3,C4                        | Hydronephrosis imaging<br>(U/S and MSCT)           | 2              | 1                |
|     | C3,C4                        | Urinary stones imaging<br>(U/S, KUB and MSCT)      | 4              | 1                |
|     | C3,C4                        | Bladder cancer imaging<br>(U/S and MSCT)           | 5              | 1                |
|     | C2,C8,D2,D5,D7               | Loin examination                                   | 7              | 1                |
|     | C3,C4                        | Renal tumors imaging<br>(U/S and MSCT)             | 8              | 1                |
|     | C5,C6                        | Urologic catheters                                 | 10             | 1                |
|     | C3,C4                        | Urine analysis                                     | 11             | 1                |
|     | C2,C8,D2,D3,D4,D5,D7         | Male external genitalia<br>examination             | 13             | 1                |
|     | C2,C8,D2,D3,D4,D5,D7         | DRE                                                | 14             | 1                |
|     |                              | Total                                              |                | 10               |



## Urology. Study Guide

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

| No. | Learning outcomes<br>A,C and D   | Title of<br>cases and<br>reference              | Week<br>number | Contact<br>Hours |
|-----|----------------------------------|-------------------------------------------------|----------------|------------------|
| 1.  | C1,C4,C7,C8,A1,A4,A6,A7,A8       | Lower<br>Urinary<br>Tract<br>Symptoms<br>(LUTS) | 1              | 7                |
| 1.  | C1,C4,C7,C8,A1,A4,A6,A7,A8       | loin pain                                       | 2              | 7                |
| 2.  | C1,C4,C7,C8,A1,A4,A6,A7,A8       | Hematuria                                       | 4              | 7                |
| 3.  | C1,C4,C7,C8,A1,A4,A6,A7,A8       | Anuria and<br>acute<br>urinary<br>retention     | 5              | 7                |
| 4.  | C1,C4,C7,C8,A1,A4,A6,A7,A8       | Scrotal<br>swelling                             | 7              | 7                |
| 5.  | C1,C4,C7,C8,A1,A4,A6,A7,A8       | male<br>subfertility<br>and semen<br>analysis   | 8              | 7                |
| 6.  | C1,C4,C7,C8,A1,A4,A6,A7,A8       | Hypospadias                                     | 10             | 7                |
| 7.  | C1,C4,C7,C8,A1,A4,A6,A7,A8       | Testicular<br>mal descent                       | 11             | 8                |
| 8.  | C1,C4,C7,C8,A1,A4,A6,A7,A8       | Acute<br>scrotum                                | 13             | 8                |
| 9.  | C1,C4,C7,C8,A1,A4,A6,A7,A8, D1,2 | BPH                                             | 14             | 8                |
|     | <b>Total</b>                     |                                                 |                | <b>66</b>        |

## Urology. Study Guide

### Portofolio

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

## Urology. Study Guide

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

## Urology. Study Guide

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

## Urology. Study Guide

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|     |                       |                                                                            |                                                            |  |
|-----|-----------------------|----------------------------------------------------------------------------|------------------------------------------------------------|--|
| 14. | 14 <sup>th</sup> week | 1-Digital rectal examination<br>2- To examine and evaluate a case with BPH | Answer the quiz of the current week lectures (e-learning). |  |
|-----|-----------------------|----------------------------------------------------------------------------|------------------------------------------------------------|--|

## Blueprint of the block

### Written blueprint

| No. | List of Topics<br>(lectures/cases)                              | Learning<br>outcomes                             | Weight*<br>% From<br>total | Total<br>marks | End of<br>the block | Final<br>Written<br>Exam |
|-----|-----------------------------------------------------------------|--------------------------------------------------|----------------------------|----------------|---------------------|--------------------------|
| 1.  | Urological symptoms                                             | A1,A5,A9                                         | 7.7                        | 5              | 1.5                 | 3.5                      |
| 2.  | Focused urological<br>examination                               | A2,A5,A9                                         | 4.6                        | 3              | 1                   | 2                        |
| 3.  | Urological investigations                                       | A3,A4,A5,A6                                      | 4.6                        | 3              | 1                   | 2                        |
| 4.  | Urinary tract trauma                                            | A1,A2,A3,A4<br>,A5,A8,A9,K<br>12,A13             | 4.6                        | 3              | 1                   | 2                        |
| 5.  | Urinary tract infections                                        | A1,A2,A3,A4<br>,A5,A8,A9,K<br>10,A11,A12         | 10.8                       | 7              | 2                   | 5                        |
| 6.  | Genito-urinary tract<br>congenital anomalies                    | A1,A2,A3,A4<br>,A5,A8,A9,K<br>12,A13             | 7.7                        | 5              | 1.5                 | 3.5                      |
| 7.  | Obstructive uropathy<br>of the upper and lower<br>urinary tract | A1,A2,A3,A4<br>,A5,A8,A9,K<br>10,A11             | 10.8                       | 7              | 2                   | 5                        |
| 8.  | Urolithiasis                                                    | A1,A2,A3,A4<br>,A5,A8,A9,K<br>10,A11             | 12.3                       | 9              | 3.5                 | 5.5                      |
| 9.  | Andrology                                                       | A1,A2,A3,A4<br>,A5,A8,A9,K<br>10,A11,A12,<br>A13 | 10.8                       | 7              | 2                   | 5                        |
| 10. | Renal transplantation                                           | A12,A13                                          | 3.05                       | 2.5            | 1                   | 1.5                      |
| 11. | Voiding dysfunction<br>and neuro-urology                        | A1,A2,A3,A4<br>,A5,A8,A9,A<br>10,A11,A12,<br>A13 | 7.7                        | 5              | 1.5                 | 3.5                      |
| 12. | Genito-urinary tumors                                           | A1,A2,A3,A4<br>,A5,A8,A9                         | 12.3                       | 8              | 3                   | 5                        |
| 13. | Urological catheters                                            | A6, A7, A3,<br>A12, A13                          | 3.05                       | 2.5            | 1                   | 1.5                      |
|     | Total                                                           |                                                  | 100%                       | 66<br>marks    | 22                  | 44<br>marks              |

## Urology. Study Guide

### Practical blueprint

|  | List of sessions/practical or clinical topics | Learning outcomes (S and A)              | Weight*<br>%From total | Number of stations/Cases | Marks<br>الدور الأول | Marks<br>الدور الثاني |
|--|-----------------------------------------------|------------------------------------------|------------------------|--------------------------|----------------------|-----------------------|
|  |                                               |                                          |                        |                          |                      |                       |
|  | History taking of urologic symptoms           | C1,C2,C4,C7,C8,A1,A2, A4, A5, A6.A7, ,A8 | 28.5                   | 1                        | 10                   | 12                    |
|  | Focused urologic examination                  | C2,C8,A2,A3,A4,A5,A7                     | 28.5                   | 1                        | 10                   | 12                    |
|  | Urologic imaging and laboratory investigation | C3, C4                                   | 28.5                   | 2                        | 10                   | 12                    |
|  | Urologic catheters                            | C5,C6                                    | 14.5                   | 1                        | 3                    | 8                     |
|  | <b>Total</b>                                  |                                          |                        |                          | 33                   | 44                    |

**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 testicular maldescent**

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**

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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:**

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:**



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

### **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

### 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**

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- 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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