



**Medical Doctorate Urology
Course
2014- 2015**



Forum No.(12) Course Specification

-1 course data		
course Code Uro 1000	Course title MEDICAL DOCTORATE	Academic year / Level Postgraduate
Specialization Urology Department	Number of instructional units 12 hrs Practical: 24 hrs Seminars 6 Total: 42 hrs	Doctorate

Course aim:	<ul style="list-style-type: none"> - To study to the basic principles of the practice of Urology. - Students should attain a level of clinical competence sufficient to allow them to manage urological disorders independently. - Enable students to practice urology independently. - Allow the student to be as a leader in the field of urology - Get the skills to the student to be a trainer to the juniors
2- Intended learning outcomes of course (ILOs)	
a- Knowledge and understanding:	<p>By the end of the course the students should acquire the following:</p> <p>a1. Understanding of the underlying pathophysiology and immunology of common urologic diseases.</p> <p>a2. Get the skills to take Urologic medical history as history taking, physical examination and organizing general and radiologic investigation as regard to patient complaint</p>

a3. Recognize the types of Genitourinary Trauma

a4. List the etiological factors of urolithiasis.
Enumerate the lines of prevention of stone recurrence.

a5. Discuss Composition of Urinary Stones and the corresponding X-ray density for each.

a6. Mention conditions that may predispose to formation of uric acid stones.

a7. Recognize the basic principle of upper and **Lower Urogenital Neoplasms (bladder and prostate)**

a8. Recognize the basic principle **Urogenital Infections:**

a9. Recognize the principle of **different urologic Jars interpretation.**

a10. aware of urologic radiology interpretations

a11. aware of urethral catheter fixation and its complications.

a12. aware of the following Urologic emergencies and their significance

a13. understand the indications for and side effects of the following procedures:

- 1- DRE (digital rectal examination)
- 2- Urethral Catheter
- 3- ESWL

a14. aware of the indications for and side effects of urologic treatments including:

- 1- Antibiotics, antifungal and antiviral commonly used in urology.

a15. Interpretate Semen Analysis as regard to WHO guidelines 2010.

- *Causes ,investigations and management*
- *New trends in management of male infertility*

	<p>a16. Recognize the sexual cycle and its dysfunction and ejaculatory dysfunctions</p>
<p>b- Intellectual skills</p>	<p>By the end of the course students should acquire following:</p> <p>b. 1 Be able to appreciate potentially life threatening urologic diseases</p> <p>b.2 Take and present an appropriate reliable history.</p> <p>b.3 Examine the urogenital systematically and describe the signs.</p> <p>b.4 Differentiate between different urologic diseases affecting the same regions in the body or causing nearly similar clinical picture.</p> <p>b.5 Communicate relevant information from the history, physical examination and routine investigations on all their dermatological patients in an organized manner.</p> <p>b.6 Take a expressed prostatic secretion for virology or microbiology</p> <p>b.7 recognize by inspection different common urologic disease as varicocele, and hydrocele.</p> <p>b.7 Examine for detection of secondary sexual characters in cases of male infertility and erectile dysfunction.</p> <p>b.8 Interpret report of semen analysis according to WHO 2010.</p> <p>b.9 Write a prescription for selected urologic prescriptions as UTI treatment.</p> <p>b10 Perform simple lower endoscopic procedure</p> <p>b11 perform upper endourology procedures as first assistant</p> <p>b12 perform and assist in open procedures</p>
<p>c- Professional skills</p>	<p>By the end of the course the students should acquire the following:</p> <p>c. 1 Be able to appreciate potentially life threatening urologic diseases</p> <p>c.2 Take and present an appropriate and</p>

	<p>reliable history.</p> <p>c.3 Examine the urogenital systematically and describe the physical signs.</p> <p>c.4 Differentiate between different urologic diseases affecting the same regions in the body or causing nearly similar clinical picture.</p> <p>c.5 Communicate relevant information from the history, physical examination and routine investigations on all their dermatological patients in an organized manner.</p> <p>c.6 Take a expressed prostatic secretion for virology or microbiology</p> <p>c.7 recognize by inspection different common urologic disease as varicocele, and hydrocele.</p> <p>c.7 Examine for detection of secondary sexual characters in cases of male infertility and erectile dysfunction.</p> <p>c.8 Interpret report of semen analysis according to WHO 2010.</p> <p>c.9 Write a prescription for selected urologic prescriptions as UTI treatment.</p> <p>c.10 Perform simple lower endoscopic procedure</p> <p>c.11 perform upper endourology procedures as first assistant</p> <p>c.12 perform and assist in open procedures</p>
<p>d- General and transferable skills</p>	<p>d1 Demonstrate ability to communicate with patients with urologic diseases.</p> <p>d2 use information technology effectively.</p> <p>d3 ability for self-learning in a developing world.</p> <p>d4 apply appropriate knowledge, skills and attitudes for effective patient care</p> <p>d5 Recognize the direct and indirect cost of skin disease to the patient and the community.</p>
<p>COURSE CONTENT</p>	<p>a. UROLOGY:</p> <ul style="list-style-type: none"> • Basic structure and function of urology. <ul style="list-style-type: none"> - Urologic case taking. - Urogenital Trauma <ol style="list-style-type: none"> 1. Renal Trauma

2. Ureteric Trauma
3. Bladder Trauma
4. Urethral Trauma
5. Genital Trauma

A- Urolithiasis

List the etiological factors of urolithiasis.

Enumerate the lines of prevention of stone recurrence.

Discuss Composition of Urinary Stones and the corresponding X-ray density for each.

Mention conditions that may predispose to formation of uric acid stones.

What are the possible complications of presence of urinary tract calculi?

Identify the clinical manifestations of upper urinary tract stones?

Outline the investigations ordered for a young wife presenting in her first trimester with renal colic and history of stone passage. Discuss the proper management of a young man presenting to the ER with anuria for 24 hours following recurrent attack of bilateral renal colic.

Outline treatment options for a kidney stone.

Outline general measures for prevention of stone recurrence. How to prevent recurrence of calcium stones?

How to prevent recurrence of uric acid stones?

B- Benign Prostatic Hyperplasia

Enumerate the followings:

- i. LUTS definitions and pathophysiology*
- ii. Management of BFH*

C- Urogenital Upper Neoplasms (renal and ureteric)

D- Urogenital Lower Neoplasms (bladder and prostate)

E- Urogenital Infections:

- i) Lower UTI; specific and non specific*
- ii) Upper UTI; specific and non specific*

	<p>F- Urologic Jars interpretation.</p> <p>G- Uroradiology interpretations:</p> <ul style="list-style-type: none"> • Plain UT • IVU • Ultrasound examination • CT and MRI overview <p>1. Urologic emergencies and their significance</p> <p>H- Urologic procedures:</p> <p>4- DRE (digital rectal examination)</p> <p>5- Urethral Catheter</p> <p>6- ESWL</p> <p>I- Therapeutics</p> <p>J- Operative</p> <p>K- Pediatric urology</p> <p>L- Urogynecology</p> <p>M- endourology</p> <p><i>iii) Male Infertility:</i></p> <p><i>iv) Sexual dysfunction</i></p>
Teaching and learning methods	<ol style="list-style-type: none"> 1. Lectures 2. clinical rounds
Student assessment methods	<ul style="list-style-type: none"> • Prepare a thesis as recommended by the committee • Final exam which include: <ul style="list-style-type: none"> – Urology exam – MCQ – Case Commentary – Surgical pathology and anatomy
Weighting of assessments	<ul style="list-style-type: none"> • Assignments • Second exam <ul style="list-style-type: none"> – Written – Oral – Clinical
6- List of references	<p>Essential books (text books)</p> <p>CampbelUs textbook of Urology</p> <p>Infertility in the Male (<u>Larry I. Lipshultz, Stuart S. Howards, Craig S. Niederberger</u> (Editors))</p> <p>For all books listed the latest edition recommended.</p>
Periodicals, Web sites	<p>www.emedicine.com</p> <p>www.rnedscape.com</p> <p>www.urotoday.com</p>

7- Facilities required for teaching and learning	<ul style="list-style-type: none"> • Main lecture hall in the hospital. • 1 hall for the clinical round • Whiteboards • Slides of clinical cases • Slide projector of the hospital • Data show of the hospital • Computer in the department
Action plan	<ul style="list-style-type: none"> • Scientific researches for students on recent topics in urology • Prepare an <i>undergraduate and postgraduate student urology notes</i>

Course coordinator: Prof. Dr. Ahmed Fahim

Head of Department: Prof. Dr. Hussein Galal

Date: / /