Course SPECIFICATION

Faculty of Medicine– Mansoura University

Urology

## (A) Administrative information

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| (1) Programme offering the course: | URL 523 |
| (2) Department offering the programme: | Urology Department |
| (3) Department responsible for teaching the course: | Urology Department |
| (4) Part of the programme: | Prof. Dr. Ashraf Hafez |
| (5) **Date of approval by the Department`s** council | May, 2016 |
| (6) Date of last approval of programme specification by Faculty council | 9/8/2016 |
| (7) Course title: | Advanced Pediatric Urology |
| (8) Course code: | URL 523 APU |
| (9) Credit hours | 1 hour |
| (10) Total teaching hours: | 14 theoretical hours |

# (B) Professional information

## (1) Programme Aims:

The general aim of the course is to provide postgraduate students with the knowledge, skills and some attitudes necessary to make an essential urologic framework of the urologist including awareness of the common urologic emergencies.

1- Enlist the etiology, diagnosis and treatment of pediatric urologic tumors.
2- Describe the main neonatal and pediatric urological emergencies and how to deal with them.
3- Define the steps of performing circumcision, pyeloplasty, bladder exstrophy repair, hypospadias repair, ureteral reimplant, orchidopexy, hypospadias repair, radical nephrectomy and reconstructivepediatric urological techniques.
4- Practice pediatric urology in the outpatient clinic under supervision by the faculty members.
5- Study the etiology, diagnosis and treatment of different hypospadias, epispadias, other pediatric diseases, UTI, voiding and continence dysfunction.
6- Study how to evaluate pediatric urologic patient.
7- Get acquainted with the diagnosis and management of disorders of sex differentation.
8- Design a research proposal and how to implement and publish it.

## (2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the programme, the candidate will be able to:

### A- Knowledge and Understanding

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| **K1** | Describe normal anatomy, anatomic variations and abnormal anatomy of the urinary tract. |
| **K2** | Describe prenatal and postnatal pediatric urologic emergencies. |
| **K3** | Enlist the common urogenital anomalies of the upper urinary tract and describe their treatments. |

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| **K4** | Enlist the common urogenital anomalies of the lower urinary tract and describe their treatments. |
| **K5** | Enumerate the various causes of pediatric urinary tract infection, common pathogens and common infection routes and risk factors and get a detailed knowledge of the treatment procedures. |
| **K6** | Describe the various types of pediatric renal, adrenal, testicular, and bladder/prostate tumors, their pathologies, diagnosis, specific investigations and treatment. |
| **K7** | Enumerate the steps for evaluation of a pediatric urologic patient. |
| **K8** | Discuss the diagnosis and treatment of disorders of sex differentiation. |

**2- Intellectual activities (B)**

The Postgraduate Degree provides opportunities for candidates to achieve and demonstrate the following intellectual qualities:

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| **I1** | Differentiate between various causes of urinary tract infection in children. |
| **I2** | Differentiate between the various causes inguinoscrotal swellings in children. |
| **I3** | Differentiate between causes of antenatal and postnatal hydronephrosis. |
| **I4** | Plan diagnostic workup and treatment for children with hydronephrosis. |
| **I5** | Plan diagnostic workup and treatment for children with vesicouretral reflux. |
| **I6** | Plan diagnostic workup and treatment for children with posterior urethral valves. |
| **I7** | Discuss and get insight into the differential diagnosis of renal mass in a child. |
| **I8** | Discuss the different anomalies of the kidney, ureter, and bladder. |
| **I9** | Describe the types and surgery options for a child with hypospadias. |

C- Professional/practical skills

The Postgraduate Degree provides opportunities for candidates to demonstrate the following professional/practical skills:

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| **P1** | Perform full history taking and physical examination of pediatric urologic patients. |

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| **P2** | Perform urethral catheterization and suprapubic catheterizationin pediatric patients. |
| **P3** | Practice cystoscopy for children, at first supervised and then independently. |
| **P4** | Practice pyeloplasty, orchidopexy and distal hypospadias repair in children. |
| **P5** | Evaluate and criticize the different therapeutic techniques vesicoureteral reflux. |
| **P6** | Provide first aid measures pediatric urologic emergencies. |
| **P7** | Prepare cases for the morbidity and mortality rounds. |

D- Communication & Transferable skills

The Postgraduate Degree provides the opportunity to demonstrate the following transferable skills:

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| **T1** | Manage live threatening situations and communicate with the patients, relatives and guardians in an effective way. |
| **T2** | Describe and practice delivering bad news to the patient. |
| **T3** | Direct and lead a group of junior staff. |
| **T4** | Perform a good medical report for morbidity and mortality. |
| **T5** | Describe and be a model for applying professional and research ethics. |
| **T6** | Conduct an effective lecture and presentation according to the known standards. |
| **T7** | Conduct a good training for the young colleagues. |
| **T8** | Analyze the soft skills that must be practiced by a certified urologist. |

## (3) Course content:

| Topics | Teaching hours Lectures |
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| **Anolamies of the upper urinary tract** | **4 hours** |
| **Anomalies of the lower urinary tract** | **4 hours** |

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| **Anomalies of the penis and genitalia** | **3 hours** |
| **Pediatric urologic tumors** | **3 hours** |

## 3.c- References:

### 3.c.1: Text books:

- Wein A, Kavoussi LR, Novick AC, Partin AW, Peters CA (eds). Campbell-Walsh UROLOGY. 9th edit, Philadelphia, Pa: Saunders Elsevier, 2007.

### 3.c.2: Websites:

- http://www.campbellsurology.com/

### 3.c.3: **Recommended books**

* Adult and Pediatric Urology (3-Volume Set)
Author: Gillenwater, JY, Howards SS, Grayhack JT, Mitchell MM (eds). Adult and pediatric urology. Lippincott Williams & Wilkins, 4th edit, 2002.

## Teaching methods:

4.1: Lecture

4.2: Practical class

4.3: Small group discussion

## (5) Assessment methods:

**5.1:Written Examination for assessment of** knowledge ILOs

**5.2: Oral examination for assessment of** knowledge and intellectual ILOs.

**5.3:MCQ exam for assessment on knowledge and intellectual skills**

**5.4 Clinical exam for assessment of knowledge and practical skills**

**5.5 Log book for activities for assessment of**: Practical skills which are acquired through attending various conferences, thesis discussions, seminars, workshops, scientific lectures as well as self learning.

**5.6: Seminars:** The candidate should prepare and present at least one seminar in the weekly Journal club in a topic related to the course and determined by the supervisors in front of the department staff (without marks).

**Assessment schedule:**

***Assessment 1:*** written exam After 36 months from the start of the job.

***Assessment 2:*** Oral exam After 36 months from the start of the job.

***Assessment 3 :*** MCQ at the end of the semester (15th week)

***Assessment 4 :*** Practical tests After 36 months from the start of the job.

***Assessment 5*:** The candidate should prepare and present at least one seminar in a topic related to the course and determined by the supervisors in front of the department staff (without marks).

**Percentage of each Assessment to the total mark:**

**Written exam: 40 Marks including 20% MCQ**

## (6) References of the course:

### 6.1: Text books:

### 6.2: Websites:

### 6.3: Recommended books

## (7) Facilities and resources mandatory for course completion:

**A. Lecture hall:** In the Auditorium of UNC and lecture hall of the outpatient clinic

(Jehan Street). Each hall is equipped with white board, overhead projector, computer, LCD projector, laser pointers, remote slide advancer, DVD player and wireless phones. It is air conditioned.

**Library:**

The library is located on the ground floor of Urology and Nephrology Center, Mansoura University

**Head of the department:**

Name: …….

| | ILOs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | K1 | K2 | K3 | K4 | K5 | K6 | K7 | K8 | I1 | I2 | I3 | I4 | I5 | I6 | I7 | I8 | I9 | P1 | P2 | P3 | P4 | P5 | P6 | P7 | T1 | T2 | T3 | T4 | T5 | T6 | T7 | T8 |
| etiology, diagnosis and treatment of pediatric urologic tumors | | | | | | x | | | | | | | | | x | | | | | | | | | x | x | x | x | x | x | x | x | x |
| Main neonatal and pediatric urological emergencies and how to deal with them. | | x | | | | | | | | x | | | | | | | | x | x | | | | x | | x | x | x | x | x | x | x | x |
| steps of performing circumcision, pyeloplasty, bladder exstrophy repair, hypospadias repair, ureteral reimplant, orchidopexy, hypospadias repair, radical nephrectomy and reconstructivepediatric urological techniques | x | x | x | x | x | x | x | x | | | | | | | | | | x | x | x | x | x | x | | | | | | | | | |
| pediatric urology in the outpatient clinic under supervision by the faculty | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | ILOs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | K1 | K2 | K3 | K4 | K5 | K6 | K7 | K8 | I1 | I2 | I3 | I4 | I5 | I6 | I7 | I8 | I9 | P1 | P2 | P3 | P4 | P5 | P6 | P7 | T1 | T2 | T3 | T4 | T5 | T6 | T7 | T8 |
| members. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Etiology, diagnosis and treatment of different hypospadias, epispadias, other pediatric diseases, UTI, voiding and continence dysfunction. | | | | x | x | | | | | | | x | | | | | x | | | | x | | | | x | x | x | x | x | x | x | x |
| evaluation pediatric urologic patient | | | | | | | | x | | | | | | | | | | x | | | | | | | | | | | | | | |
| Diagnosis and management of disorders of sex differentation. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Research proposal design and how to implement and publish it. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | x | | |