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Renal and urinary system module - anatomy

Course specification

University: Menoufia

Faculty: Medicine

A - Administrative Information

Module Title: renal and urinary system

Code No: URIN 2202

Department offering the course: Anatomy, pathology, pharmacology, histology, physiology, biochemistry and microbiology departments

Program on which the course is given: M.B.B.Ch Program

Academic year: 2nd Year

Date of specification: 2019

Date of approval by Departments Council:

Date of approval by Faculty Council:

Taught hours:

Total hours: credit hours. **Theoretical hours:** actual hours

Practical: hours **Activities:** hours

weeks –total marks

B- Professional Information

1– Overall aims of course:

- a) To provide a basic anatomical knowledge of the normal structure of the human body at the level of gastro-intestinal tract (GIT) and related organs.
- b) To be aware about the development of GIT and related organs as well as their congenital anomalies.
- c) To recognize the anatomical basis of the common diseases that affecting GIT system.

2- Intended Learning Outcomes:

a. Knowledge and understanding:

- a1: Identify the normal structure of the kidney, ureter, urinary bladder and urethra
- a2: Describe the basic anatomical structure of the kidney, ureter, urinary bladder and urethra
- a3: Demonstrate the surface anatomy of the kidney & ureteric constrictions
- a4: Identify the major clinical applications of anatomical facts.
- A5: Describe the causes of the congenital anomalies.

b- Intellectual skills:

- b1. Interpret** the anatomical knowledge with clinical signs seen in cases of portal hypertension.
- b2. Correlate** the knowledge in embryology with clinical findings caused by errors in development.
- b3. Integrate** the anatomical facts while examining the kidney in order to reach a proper diagnosis.
- b4. Interpret** the normal anatomical structures on radiographs x ray, IVP and C.T. scan.

c- Professional and practical skills:

- c1. Label** dissected structures of the urinary system according to the present relations.
- c2. Differentiate** between the right and left kidney- internal and external urethral sphincter.
- c3. Draw** diagrams showing courses and distribution of main blood vessels related to gastrointestinal tract.
- c4. Examine** of the different regions of the abdomen.
- c5. Read** x- rays and IVP to recognize the anatomical landmarks, common diseases related to the urinary system.

d- General and transferable skills:

- d1. Adopt** the principles of continuous medical education; CME.
- d2. Use** internet and learn searching skills.
- d3. Gather and organize** material from various sources (including library, electronic and online resources).
- d4. Express** them freely and adequately.
- d5. Deal** with the patient as a whole rather than a lesion or a specimen.
- d6. Maintain** a professional image in manner, dress, speech and interpersonal relationships that is consistent with the medical professions accepted contemporary standards in the community.
- d7. Manage** time efficiently and work in group.
- d8. Adopt** the principles of using international guidelines and MDT.

3. Course content

Lecture:

Lecture	Teaching hours
Anatomy of the kidney& ureter 1	1.5 hour
Development of the kidney & ureter	1 hour
Anatomy of ureter2, urinary bladder & urethra	1.5 hour
Development of urinary bladder and urethra	1.5 hour

TBL:

- 1- Renal failure
- 2- Urine incontinence

Practical and activity:

Anatomy Topic	Teaching hours
Examination of prosection of urinary system. Revision on posterior abdominal wall (spots)	1.5 hour
Kidney & ureter	1.5 hour
Urinary bladder & urethra	1.5 hour
Radiology	1.5 hour
Revision	1.5 hour

Tutorial:

Title	Duration
Ureteric constrictions	1.5 hours
Debate on internal and external urethral sphincter	1.5 hours

4 – Teaching and learning methods:

1. Lectures for acquisition of knowledge:

- 1- Two groups
- 2- The lectures are conducted using:
 - a. Audiovisual aids through animations and diagrams
 - b. Interaction with the students through questions
 - c. Self-learning through giving them certain topics to search, collect data and give presentation

2. Practical sessions:

- 1- Practical classes including; dissection, demonstration and museum.
- 2- The students are divided into 6 groups each group has 2 hours
Each group is subdivided into three subgroups (1, 2, 3)
- 3- The practical teaching is conducted using:
 - Models
 - Skeletons
 - Individual bones
 - Prosected specimens
 - Diagrams
 - Radiographs

3. Tutorial classes:

1.5 hour/week for 2 weeks each of the 6 groups in which there is open discussion, case study and self-assignment with the students.

5. Student assessment:-

A- Attendance criteria:

The minimal acceptable attendance is 70% Students who fail to attend that percentage of activities will not be allowed to sit for final written examination.

B - Assessment schedule

1-Formative assessment exams: Held usually at regular intervals

2-Summative examination: at the end of semester.

B - Weighting of assessments

Method of Assessment	Marks	Percentage
Written exam.	8.5	40%
Practical exam.	6.375	30%
Activities & attitude	6.375	30%
Total	21.25	100%

6. List of text books and references:-

1- **Course notes:** Book authorized by department.

2- **Essential Books:**

Anatomy:

- Gray's Anatomy for student
- Medical Embryology 12 edition.
- Grants atlas of anatomy.
- Surface and radiological anatomy 3rd edition.
- Clinically orientated anatomy.

3-**Recommended web site:**

- <https://www.britannica.com/science/anatomy>.
- <https://reference.medscape.com/guide/anatomy>.

7. Facilities required for teaching and learning:

1. Lecture halls at the faculty
2. Dissecting room including cadavers, bones and plastic models
3. Museum specimens
4. Visual aids.

Course coordinator:

Name: Marwa Abdel-Samad Al-Gholam

Head of Department:

Name: Mostafa Mahmoud El-Habiby