



Tanta University Faculty of Medicine

Department of Medical Physiology

Course specifications

Medical Physiology for Genitourinary Surgery Diploma & Master degrees First Part

2016/2017

Course specifications: Medical Physiology for Genitourinary Surgery Diploma & Master degrees, 2016-2017

Medical Physiology for urology Diploma & Master degrees Course specificationsUniversity: TantaFaculty: MedicineDepartment: Medical PhysiologyA- Administrative Information

- Program title: Medical Physiology for Genitourinary Surgery Diploma & Master degrees
- Department offering the program : Department of urology
- Departments responsible for the program: Medical Physiology& Department of urology
- Course Code: UROL 7002&UROL 8002
- Academic year/ Level : 2016 /2017
- No. of Credit/taught hours: 0.5 theoretical credit hour(0.5 hour/wk for 15 wks)
- Authorization date of course specification: / /

B- Professional Information

1- Overall Course aims:

Our course aim to 2 provide students with knowledge in basic clinical Medical Physiology that help him/her to understand urology and andrology diseases; regarding etiology diagnosis, management, control, and prevention.

2- Intended learning outcomes (ILOs):

a. knowledge and understanding:

At the end of the course the graduate should be able to:

- a1 Recognize basic theories and principles of Medical Physiology that help him to understand urology and andrology diseases; regarding etiology diagnosis, and control,
- a2 Identify basic defect in physiological control mechanisms that result in disease state.

b. Intellectual skills:

At the end of the course the graduate should be able to

b1 Solve common medical problems related to urology and andrology diseases.

d. General transferable skills:

At the end of the course the graduate should be able to

- d.1. Communicate effectively with his colleagues.
- d.2. Use perfect basic computer skills which serve his career development
- d.3. Apply self-evaluation and specify his medical educational needs.

3- Course contents:

Course title	Торіс	No. of credit hours	No of Credit points	Remarks
Medical Physiology	Urosurgery	2 _{1/3} hs (1/2for Medical Physiology)	7 points (1.5 for Medical Physiology)	Co-requisite with biochemistry & pharmacology

Detailed contents of the course topics. (Syllabus contents): General topics

Week No.	topic
1-	1- Hemostasis, anticoagulants and hemorrhagic disorders.
2-	2- pain, pain analgesia system
2-	3- Homeostasis and Ca++ homeostasis
3-	4- Arterial Blood Pressure and pathophysiological basis of hypertension.
4-	5- chemical transmitters of ANS.
5-	6- Hemorrhage and shock.
6-	7- Heart rate and its regulation
7-	8- Control of diameter of arterioles
	9- Supra- renal cortical hormones and disorders
8-	10- Hormones regulating glucose metabolism.(Diabetes mellitus: PathoMedical
	Physiology and its complications
9-	11- ABO system, Rh factor, Blood transfusion and its incompatibility.
9-	12- Regulation of body water and electrolytes.
10-	13- Acid – Base balance and disorders
10-	14- Hypoxia and cyanosis
11-	15- Erythropoiesis , Anemia and Polycyathemia.
11-	16- Cardiac reserve
12-	17- Thermoregulation & Clinical aspects of thermoregulation
14-	18- Cardiac Output
13-	19- Cellular mechanism of hormonal actions
13-	20- Edema
Dalatad	spacialty systems:

Related specialty systems:

- 1. Renal system.
- 2. Male reproductive system.
- 3. Blood.

Related specialty topics.

- 1. Water homeostasis & disorders of water balance.
- 2. Male fertility.
- 3. Bladder and urethral control in male & female.
- 4. Prostate function & dysfunction.
- 5. Renal hemodynamic.
- 6. Ionic balance, role of the kidneys.
- 7. Transport properties of kidneys in the tubular segment.
- 8. Hormonal control of the kidney function
- 9. Hormonal functions of the kidneys

4- Teaching and learning methods:

4.1 Illustrated lectures.

4.2 Tutorial is scheduled and previously announced special topics from the curriculum are discussed in the tutorial.

4.3 Assignment to be prepared by the graduate in one of the special topic taught.

4.4 Seminars scheduled and previously announced to facilitate selection identification of their thesis.

- Each teaching method is designed to serve different educational goal, and together they provide an appropriate stimulating atmosphere for learning.

5- Student Assessment:

End semester final examination consists of:

5.1. Final written consists of one paper, 3 hours. With the co-requisite subjects. The written is divided into 3 parts part1 short questions in the form (state, mention, explain compare define etc). the 2nd part in problem solving question the 3rd part is MCQ questions to assess (a.1, a.2,).

5.2. Oral to assess (a.1, a.2, & b.1, d.1,2,3)

6- Assessment schedule:

6.1. End Semester Final written qualifying examination	At the end of the semester (60% of the total mark)
6.2. oral qualifying examination	After the written (40% of the total mark)

7- Weighing of assessments:

Grading system	for End Semester	written Exam:

Grade % Code CGPA points	
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Excelent	95% or more	А	4.000
Excelent	90% to less than 95%	A-	3.666
Vory Cood	85% to less than 90%	B+	3.333
Very Good	80% to less than 85%	В	3.000
Good	75% to less than 80%	В-	2.666
GOOU	70% to less than 75%	C+	2.333
Satisfactory	65% to less than 70%	С	2.000
Satisfactory	60% to less than 65%	C-	1,666
	55% to less than 60%	D+	1.333
Failed	30% to less than 55%	D	1.000
	Less than 30%	F	0.000

Final comprehensive exam

Final exam		Final written	Final	Final oral	Total		
					practical		
Final	comprehensive	exam	of	30 (60%)	10	10	50
Medical Physiology, biochemistry &							
pharmacology							

• Final written examination consists of one paper, 3 hour s. With the co-requisite biochemistry and Pharmacology

- There is no Medical Physiology practical exam
- Oral examination by two examiners

8- List of references:

8.1. Essential books (Textbooks):

- Guyton & Hall textbook of Human Medical Physiology and Mechanisms of Disease.
- Gannon (review of medical Medical Physiology).
- Vander's human Medical Physiology.

8.2. Recommended books:

- Applied Medical Physiology in intensive care by M.R. Pinsky (Editor), J. Mancebo (Editor), L. Brochard (Editor), Gran Hedenstierna 2009.

- An introduction to human disease: pathology & pathoMedical Physiology correlations by Leonard Crowley. Hardcover August 2009.

- Critical pathways in cardiovascular medicine: Second Edition Lippincott Williams & Wilkins.

- Applied Medical Physiology: A manual showing functions of the various organs in disease by Frederich Augustus Rhodes.

8.3. Periodicals, Web:

- www.tebawy.5u.com.

- http://bcs.whfreeman.com.
- http://www.bpcc.edu/sciencealliedhealth/humanMedical

Physiologylinks.htmlhttp://bio-alive.com/animations/Medical Physiology.htm.

- Human Medical Physiology from cell to system By: Lauralee Sherwood.

9- Other resources/ facilities required for teaching and learning to achieve the above ILOs:

- All facilities required for teaching are available.

10- We certify that all of the information required to deliver this course is contained in the above specifications and will be implemented.

We verify that the above course and the analysis of students and external evaluator opinions are accurate.
Course coordinator and head of department nameDateDate
Head of quality assurance unit: namesignatureDateDate