



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

Department of Pathology

Course Specifications

Pathology Third Year

2011-2012

Pathology First Year Course specifications

University: T anta

Faculty: Medicine

Department: Pathology

1- Administrative Information

- **Course title: Pathology**
- **Code: TMED.03:01**
- **Department offering the course: Department of Pathology**
- **Program (s) on which this course is given: M.B.B.Ch**
- **Departments offering the program: all other Departments of the faculty**
- **Academic year/ Level :Third year of M.B.B.Ch**
- **Semester in which the course is given: 1 academic year from September through April**
- **Date of specifications /revision: September 12,2011**
- **Date of approval by departmental/faculty council : 21/9/ 2011**
- **Taught hours:**
 - **Lectures : 120 hrs (5 hrs/ week)**
 - **Tutorial : 15 hrs (1 hr / 2-3 weeks)**
 - **Practical : 105 hrs**
 - **Others:**
 - **Total : 240 hrs**

2 – Overall Course Aims

- To familiarize students with the basic disease patterns and their underlying mechanisms within the specific organ system.
- To provide students with essential knowledge for their clinical rounds and to prepare them for their subsequent clinical careers.

3– Intended learning outcomes (ILOs):

a- knowledge and understanding:

By the of the course the student should be able to

a1-To recognize the etiology and pathogenesis of different disease processes.

a2-Fully describe and discuss characteristic gross and microscopic pictures of different pathologic lesions within specific organ system and the associated functional disturbances .

a3-Determine the fate and complications of different disease processes

a4- To identify the etiology of illness and disease, with special emphasis on environmental and traumatic causes.

a5-To recognize the altered development, growth, structure and function of the body and mind that occur as a result of disease.

b- Intellectual skills

By the of the course the student should be able to

b1-Compare between the different disease processes

b2- Predict the diagnosis of different diseases based on the underlying gross and microscopic pictures.

b3- Interpret a pathology report

c- Professional & practical skills

By the of the course the student should be able to

c1- Exhibit clinical decision analysis skills that weighs the pros and cons of the proposed interventions. C2- Distinguish the different diagnostic pathological tools.

C3- Being familiar with different laboratory techniques for handling pathological samples, appropriate types of fixatives and processing technique

C4- Fully describing the pathologic pictures of different disorders based on gross and microscopic pictures aiming at reaching a correct diagnosis

d-General transferable skills

By the of the course the student should be able to

d1-Express freely and adequately themselves by improving descriptive capabilities and communication skills

d2-Respond appropriately according to the seriousness of pathologic diagnosis in acceptable human manner.

d3-Maintain a suitable image in manner, dress, speech and relationships that is consistent with the medical profession

d4 Know when and how to ask for senior consultation.

d5 Work collaboratively with other health professionals in other disciplines to maximize patient benefits and minimize the risk of errors.

d6 Identify his/her personal weaknesses through accurate self-assessment and/or supervisors and colleagues and actively set a clear learning plan to address these weaknesses.

d7 Utilize the resources of biomedical information including the available electronic facilities to update his/her knowledge

4- Topics (Contents of the course)				
Topic	No. of hrs.			
	Total	Lectures	Tutorial/Practical	
General pathology	117	54	12 & 51 (63 hrs)	
1 Introduction: Pathology, its related disciplines & Technical points	1	1		
2 Inflammation & repair	13	5	6	2
3 Cell injury, degeneration, disease of Ageing & necrosis	11	5	4	2
4 Circulatory disturbances & gangrene	22	8	12	2
5 Granulomas & mycotic infections	26	12	12	2
6 Viral diseases & immunity	5	5		
7 Genetic disorders	1	1		
8 Ionising radiation	2	2		
9 Nutritional diseases	2	2		
10 Growth disturbances	8	2	4	2
11 Neoplasia	22	8	12	2
Cytology, immunohistochemistry, how to search a topic	4	3	1	
Special Pathology	133	71	12 & 50 (62 hrs)	
1 Cardiovascular system Heart & blood vessels	12	7	4	1
2 Respiratory system	13	8	4	1
3 Gastrointestinal system	13	8	4	1
4 Liver & gall bladder	9	6	2	1
5 Urinary system	17	10	6	1
6 Male genital system	8	4	4	1
7 Female genital system	13	6	6	1
8 Breast	9	4	4	1
9 Blood & Lymphoreticular system	15	8	6	1
10 Bone & Joints	8	3	4	1
11 Endocrine gland	9	4	4	1
12 Central nervous system	6	3	2	1

5-Teaching and learning methods

5.1 Large group lectures

5.2 Small group discussions, seminars and case studies.

 MCQ and problem solving cases based on the topics listed below:

- *Acute and chronic inflammation and repair.
- *Degenerative changes.
- *Necrosis and cell injury.
- *Granulomas.
- *Non specific infections and immunologic disturbances.
- *Circulatory disorders.
- *Neoplasms
- *Cardiovascular cases
- * Respiratory cases.
- *G. I.T cases.
- *Hepato-biliary cases.
- * Renal cases. st cases
- *Skeletal cases.

5.3 Practical sessions

5.3-a Histopathology slide lab.

LIST OF SLIDES : (55 slides)	
Cardiovascular system	1- RHEUMATIC CARDITIS 2- CAVERNOUS HAEMANGIOMA
Respiratory system	3- LOBAR PNEUMONIA (GREY HEPATIZATION) 4- CHRONIC VENOUS CONGESTION, LUNG 5- RHINOSCLEROMA
Gastrointestinal tract	6- BILHARZIAL POLYP, COLON 7- JUVENILE RETENMTION COLONIC POLYP 8- MUROID ADENOCARCINOMA, COLON 9- NON MUROID ADENOCARCINOMA, COLON 10-ACUTE SUPPURATIVE APPENDICITIS
Liver, gall bladder & pancreas	11-LIVER CIRRHOSIS 12-CHRONIC VENOUS CONGESTION, LIVER (D) 13-AMYLOID LIVER*(D) 14-HEMANGIOMA IN LIVER
Urinary system	15-CHRONIC GLOMERULONEPHRITIS 16-RENAL CELL CARCINOMA (CLEAR CELL VARIANT) 17-WILM`S TUMOUR 18- PAPILLARY TRNSITIONAL CELL CARCINOMA.
Male genital system	19-SEMINOMA 20-BENIGN PROSTATIC HYPERPLASIA
Female genital system	21-VESICULAR MOLE 22-ENDOMETRIAL CARCINOMA. 23-LEIOMYOMA

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	24-SECRETORY ENDOMETRIUM (N) 25-PROLIFERATIVE ENDOMETRIUM (N58) 26-CYSTIC ENDOMETRIAL HYPERPLASIA 27-ADENOMYOSIS 28-ENDOMETRIOSIS OF ANTERIOR ABDOMINAL WALL 29-PAPILLARY SEROUS CYSTADENOCARCINOMA. 30-MUCINOUS CYSTADENOMA OVARY (N57) 31-DERMOID CYST
Breast	32-FIBROCYSTIC DISEASE OF THE BREAST 33-FIBROADENOMA 34-DUCT MAMMARY CARCINOMA 35-METASTATIC MAMMARY CARCINOMA IN LYMPH NODE
Lymphoreticular & spleen	36-HODGKIN'S LYMPHOMA 37-REACTIVE FOLLICULAR HYPERPLASIA OF LYMPH NODE (N66). 38-TUBERCULOUS CASEATING LYMPHADENITIS 39-SARCOIDOSIS SPLEEN 40-AMYLOID DEGENERATION, SPLEEN, DIFFUSE TYPE 41-CONGESTED SPLEEN
Bone & joint	42-OSTEOCLASTOMA 43-OSTEOCHONDROMA
Endocrine system	44-HASHIMOTO THYROIDITIS 45-NODULAR THYROID GOITER 46-THYROID ADENOMA 47-PAPILLARY THYROID CARCINOMA
Nervous system	48-MENINGIOMA 49-SCHWANNOMA
Skin & subcutaneous tissue	50-CHRONIC NON SPECIFIC DERMATITIS 51-ACTIONOMYCOSIS 52-SQUAMOUS CELL PAPILLOMA, SKIN 53-SQUAMOUS CELL CARCINOMA, SKIN 54-BASAL CELL CARCINOMA, SKIN 55-MALIGNANT MELANOMA, SKIN

5.3.b Museum for gross pathology specimens

LIST OF MUSEUM SPECIMENS (147) JARS:

- Cardiovascular system (12) jars.
- Respiratory system (13) jars.
- G.I.T (14) jars.

- Hepatobiliary and pancreatic (15) jars.
- Urinary tract, male genital (30) jars.
- Endocrine pathology (5) jars.
- Blood diseases and lymphoreticular disorders (6) jars.
- CNS and PNS (2) jars.
- Skeletal system and joint pathology (4) jars.
- Soft tissue (6) jars.
- Female genital system and breast disorders (40) jars.

6-Student Assessment :

a)Methods used

- .1 periodical exam to assess a1-2, c1=3, d1-3
- .2 Mid-Term written exam to assess a1-5
- .3 Final written exam to assess a1-5,b1-3,c1-3
- .4 Oral exam to assess a1-5,b1-3,c1-3, d1-8
- .5 Practical exam to assess a1-5,b1-3,c1-3,d1-8
- .6 Activities in practical sessions to assess a1-2, c1=3, d1-3

b)- Assessment schedule التوقيت

Assessment	Week
1 periodical exam	8, 23
2 Mid-Term written exam	18
3 practical exam	30
4 Final written exam	32
5 Oral exam	32
6 Activities	All through academic year

c- Weighing of assessments(توزيع الدرجات)

Exam	Marks	% of Total
Mid term examination	45	15%
Final term examination	150	50%
Oral examination	30	10%
Practical/laboratory work	60	20%
Periodical examinations	10	3.3%
Semester work	-	%
Other types of assessment Activities in practical sessions	5	1.7%
Total	300	100%

d) Attendance criteria:

1. Practical attendance
75% of practical attendance is required

E- Grading system:

Examination	Topic	Description	Marks
Mid term exam		MCQ , short questions, definitions	45
Activity	Student sharing activities in practical sessions		5
Periodical Examinations	Sheet examinations	Practical application & MCQs on weeks 8 & 23 of practical schedule	10
Final Examination	Written (3-hours)	Three hours written paper composed of short & long essay type questions, case study	150
	Practical exam: (12 spots) +	6 slides and 6 jars spots	60
	Oral exam (10 minutes) one session		30
Total			300

7- List of references

7.1 Course notes

- 8.1.a Staff member's pathology book.
- 8.1.b Staff member's Color atlas of gross Pathology
- 8.1.c Staff member's Color atlas of microscopic Pathology.

7.2 Text book

- 8.2.a Kumar, Cotran & Robbins, Basic Pathology.

7.3 Recommended books

- 8.3.a Walter & Israel General pathology

7.4 Periodicals and web sites

- 7.4.a [http:// www. PATHMAX. com](http://www.PATHMAX.com)
- 7.4.b [http:// www.-medlib.med .utah.edu/Web Path / LABS/ LABMENU. Html](http://www.-medlib.med.utah.edu/Web Path / LABS/ LABMENU. Html)
- 7.4.c <http://www.medscap.com/pathologyhome>
- 7.5.d <http://www.qwumc.edu/dept/path/2f.htm>
- 7.4.e Lecture CDs available on request.

8- Facilities Required for Teaching and Learning

- Lecture halls equipped with computers, sound systems, data show projectors, white board
- Labs equipped with computers, sound systems, dual projectors for gross or microscopic specimens (via microscopes with built in digital cameras) and data show presentation, white board, binocular microscopes for students.
- Set of slides for each 20 students to be used throughout the year.
- Museum specimens
- Projector slides.
- Over head projector.

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Course coordinator

Prof. Dr. Faika El-Tatawy signature..... Date.....

Dr. Mona Abdel Hak signature..... Date.....

Dr. Eiman Adel Hasby signature..... Date.....

Head of department

Prof. Dr. Hussein Ghoraba signature.....Date.....

Intended learning outcomes of the course (A)

Academy / University:Tanta
Faculty: Medicine
Department: Pathology

☒ The name of course	Pathology
Code of course	03:01

Topics of the course	Week Study	Knowledge & Understanding	Intellectual Skills	Professional Skills	General transferable skills
General Pathology					
1- Introduction: Pathology, its related disciplines&Technical points	First week	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
2- Inflammation & repair	1 st & 2 nd	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
3- Cell injury, degeneration, disease of Ageing & necrosis	2 nd & 3 rd	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
4- Circulatory disturbances & gangrene	4 th	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
5- Granulomas &mycotic infections	4 th - 6 th	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
6- Viral diseases & immunity	7 th	■a1-a3	■b1-b3		
7- Genetic disorders	7 th	■a1, a4	■b1		
8- Ionising radiation	7 th	■a1	■b1		
9- Nutritional diseases	8 th	■a1-a5	■b1		
10-Growth disturbances	8 th	■a1-a5	■b1-b3		
11-Neoplasia	9 th 10 th	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
12-Cytology, immunohistochemistry, how to search a topic	11 th	■a2	■b3		
Topics of the course	Week Study	Knowledge & Understanding	Intellectual Skills	Professional Skills	General transferable skills
Special Pathology					
13-Cardiovascular system Heart& blood vessels	11 th & 12 th	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
14-Respiratory system	13 th & 14 th	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
15-Gastrointestinal system	14 th & 15 th	■ a1-a5	■b1-b3	■c1-c4	■d1-d7

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16-Liver & gall bladder	16 th	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
17-Urinary system	19 th & 20 th	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
18-Male genital system	21 st	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
19-Female genital system	22 nd	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
20-Breast	23 rd	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
21-Blood &Lymphoreticular system	24 th	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
22-Bone & Joints	25 th	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
23-Endocrine gland	26 th	■ a1-a5	■b1-b3	■c1-c4	■d1-d7
24-Central nervous system	26 th	■ a1-a5	■b1-b3	■c1-c4	■d1-d7

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