

Course Specifications

Title:

Digestive System

Year2



Course Specifications

University: South Valley University

Faculty: Qena Faculty of Medicine

Programme(s) on which the course is given: Bachelor of Medicine & Surgery(M.B.B.Ch. program)

Department offering the program: Education sector (Multidisciplinary integrated program)

Department offering the course: Anatomy, histology and physiology.

Academic year / Level: Year 2, 4th semester

Date of specification approval: Approved by the Faculty Board on 3/2010

Date of modification: 11\2018

1-basic information

Title: Digestive System

Code: DIG202

Credit points: 150 mark

Lecture: 39 hrs

Practical academic lab: 54 hrs

Total: 93 hrs

Target Population: 2nd year medical students

The qualification degree: “Bachelor Degree in Medicine and Surgery (MBBCh)”

2- Professional Information

Overall Aims of Course:

The overall aims of the course are that the students:

- Develop the basic knowledge, skills, and attitude expected from a medical student to be able to participate in the prevention, diagnosis and management of digestive system diseases in the clinical training period.
- Know the structure of the digestive system and understand its function.
- Know the most common diseases affecting the digestive system.
- Know the risk factors related to digestive system diseases.

Anatomy

1-Overall aims

By the end of the course, students should be able to:

- Provide the student with an appropriate background that enable him / her to identify the normal structure and function of the body and of each of its major systems.
- To enable the student to recognize different stages of the life cycle and how these affect normal structure and function.

Digestive System

- To provide the student with the knowledge and skills that enables him/ her to identify and examine the normal anatomy of the body and of each of its major organ systems grossly.
- To provide appropriate ethical and professional education necessary for dealing with cadavers.
- To enable students to correlate anatomical facts with their clinical applications.

2- Intended Learning Outcomes (ILOs)

A- Knowledge and Understanding

A1- Describe the normal anatomy of the abdomen

A2- Describe course, relations and branches of main blood vessels of abdomen

A3- Mention course, relations and branches of main nerves of abdomen.

A4- Describe the surface anatomy of the abdominal organs .

B-Intellectual Skills

By the end of the course, students should be able to:

B1- Interpret the normal anatomical structures of abdomen.

B2- Correlate anatomical facts with manifestations of various injuries in abdomen

B3- Correlate anatomical facts with its major clinical applications.

C- Practical and Professional Skills

By the end of the course, students should be able to:

C1- Examine the regions of abdomen

C2- Examine the gross morphology of different organs of abdomen .

C3-Examine the arrangement of the internal structures in abdomen.

C4- Summarize reports on the different anatomical samples of abdomen

D- General Skills

By the end of the course, students should be able to:

D1- Communicate effectively with teachers and colleagues.

D2- Value the ethics and respect to all individuals inside and outside the dissecting room and give a good deal of respect to the cadavers.

D3- Write a report on the different anatomical samples of abdomen.

Histology

1-Overall aims

By the end of the course, students should be able to:

- Mention and describe the histology of the gastero-intestinal tract (GIT) and its associated glands (salivary glands,liver, pancreas)

2- Intended learning outcomes (ILOs)

A- Knowledge and understanding

By the end of the course, students should be able to:

A1- Define and describe the histological characteristics mucosa of the GIT and the histology of its associated glands.

B-Intellectual skills

By the end of the course, students should be able to

B1- Correlate between the structure & function of the mucosa of the GIT.

C- Professional skills

By the end of the course, students should be able to:

C1- Identify different parts of the GIT.

C2- Identify different glands associated with the GIT (salivary glands, liver and pancreas).

C3- Draw and label the structures they have seen in electron photomicrographs and under light microscope during practical classes.

D- General skills

By the end of the course, students should be able to:

D1- Appreciate the importance of life long learning and show a strong commitment to it.

D2- Use the sources of biomedical information to remain current with advances in knowledge and practice.

Physiology

1-Overall aims

By the end of the course, students should be able to:

- To acquire an appropriate background and recognize the normal structure and function of the digestive system. \

- Describe the integration of physiological functions of digestive system, which characterize the performance of the human body as a whole in health
- Know the physiological principles underlying disease states that aids in interpretation of symptoms of the digestive system

3- Intended Learning Outcomes ILOS

3-A- Knowledge and Understanding

By the end of the course, students should be able to

A1-Define the digestive process and describe its components as regards, secretion, motility and control.

A2- Describe functional structures of the organs of digestive system

(3.B) Intellectual Skills

By the end of the course, students should be able to: -

B1- Distinguish between physiological and pathological conditions of digestive system.

B2- Evaluate the normal functions of different components of digestive system and the effect of their lesions.

B3- Integrate physiology with clinical conditions.

(3.C) Professional and Practical Skills

By the end of the course, students should be able to: -

- C1- Perform different function tests of the GIT
- C2- Dissect the frog and perform experiments of effect of different substances on intestinal motility.

(3.D) General Skills

By the end of the course, students should be able to:-

- .D1- Be responsible towards work
- D2- Maintain a professional image concerning behavior, dress and speech
- D3- Work separately or in a team to research and prepare a scientific topic
- D4- Use available presentation aids (Overhead projectors or Data show) to present clearly and effectively in a scientific topic.

3- Course Contents Digestion and Nutrition DIG 202

Anatomy

| Time | Topic | Lectures | Practical | Total |
|----------------------|---|----------|-----------|-------|
| 1 st week | Lumbar vertebrae, hip bone and anterior abdominal wall. | 1 | 2 | 3 |

Digestive System

| | | | | |
|-----------------------------|---|--------|--------|---|
| | | | | |
| 2 nd we ek | Inguinal canal male external genitalia | 1 1 | 2 2 | 6 |
| 3 rd we ek | Peritoneum (general arrangements) Peritoneum (folds, and recesses) | 2 | 4 | 6 |
| 4 th we ek | Stomach and celiac trunk. | 1 | 2 | 3 |
| 5 th we ek | Blood supply of gut | 1 | 2 | 3 |
| 6 th we ek | Duodenum , Free part of small intestine (,jejunum , ileum)and superior mesenteric vessels | 2 | 4 | 6 |

Digestive System

| | | | | |
|-----------------------------|---|---|---|---|
| 7 th we ek | Large intestine (cecum , appendix ,ascending ,transverse .descending and sigmoid colon , rectum and anal canal) and inferior mesenteric vessels. | 1 | 2 | 3 |
| 8 th we ek | Large blood vessels(descen ding abdominal aorta and its branches, IVC and its tributaries) | 1 | 2 | 3 |
| 9 th we ek | Liver ,biliary system | 1 | 2 | 3 |
| 10 th h | spleen and pancreas | 1 | 2 | 3 |

Digestive System

| | | | | |
|----------------------------------|--|----|----|----|
| we ek | | | | |
| 11 ^t h we ek | posterior abdominal wall muscles. | 1 | 2 | 3 |
| 12 ^t h we ek | lumbar plexus and vessels of posterior abdominal wall | 1 | 2 | 3 |
| Tot al | | 15 | 30 | 45 |

Histology

| Date | Topic | Lecture | Practical |
|------------------------|---|---------|-----------|
| 1 st week | Histology of the oral cavity | 1 | 1 |
| 2 nd . Week | General structure of the gastrointestinal tract | 1 | 1 |
| 3 rd . week | Histology of the osophagus | 1 | 1 |
| 4 th . Week | Histology of the stomach | 1 | 1 |
| 5 th . Week | Histology of the small intestine | 1 | 1 |
| 6 th . week | Histology of the large intestine | 1 | 1 |

Digestive System

| | | | |
|-----------------------------|--------------------------------------|-----------------|-----------------|
| 7th week | Histology of the salivary glands (1) | 1 | 1 |
| 8th week | Histology of the salivary glands (2) | 1 | 1 |
| 9th Week | Histology of the liver (1) | 1 | 1 |
| 10th Week | Histology of liver (2) | 1 | 1 |
| 11th Week | Histology of pancreas | 1 | 1 |
| 12th Week | Histology of gall bladder | 1 | 1 |
| | Total | 12 hours | 12 hours |

Physiology

| Weeks | Topics | lectures | practical | Total | % |
|--------------------------------|---|-----------------|------------------|--------------|-------------|
| 1st week | Motor function of stomach | 1 | 1 | 2 | 8.3% |
| 2nd week | Movements of small intestine | 1 | 1 | 2 | 8.3% |

Digestive System

| | | | | | |
|---------------------------------|---|----------|----------|----------|-------------|
| 3rd week | Movements of colon | 1 | 1 | 2 | 8.3% |
| 4th week | Secretion of saliva | 1 | 1 | 2 | 8.3% |
| 5th week | Esophageal secretion | 1 | 1 | 2 | 8.3% |
| 6th week | Gastric secretion | 1 | 1 | 2 | 8.3% |
| 7th week | Pancreatic secretion | 1 | 1 | 2 | 8.3% |
| 8th week | Pancreatic secretion | 1 | 1 | 2 | 8.3% |
| 9th week | Secretion of bile by liver | 1 | 1 | 2 | 8.3% |
| 10th week | Secretion of small intestine and large intestine | 1 | 1 | 2 | 8.3% |
| 11th week | Jaundice | 1 | 1 | 2 | 8.3% |
| 12th week | Digestion and absorption in GIT | 1 | 1 | 2 | 8.3% |

| | | | | | |
|--|--------------|-----------|-----------|-----------|-------------|
| | Total | 12 | 12 | 24 | 100% |
|--|--------------|-----------|-----------|-----------|-------------|

4- Teaching and Learning Methods

4.1- Lectures (for acquisition of knowledge: 1 hours/week).

4.2- Practical sessions (0.5 hours/ week) to gain practical skills (Laboratory demonstration, practical training and problem-based learning)

4.3- Assignment (practical book) and reports

5- Student Assessments

Anatomy

a- Attendance criteria

The minimal acceptable attendance is 75%; students who fail to attend that percentage of activities will not be allowed to sit for final written examination.

B Student Assessment tools and grading

| tools | Time Schedule | Weight | Measured Skills (ILOs) |
|------------------------------|----------------------------|--------|---|
| MCQ, True or False, Matching | Periodic exams | %30 | Understanding(A1-A4) and Intellectual skills(B1-B3) |
| Final practical exam | By the end of the semester | %25 | understanding Intellectual and general skills(D1-D3) |

| | | | |
|--|----------------------------|------------|--|
| Final written exam, MCQ, matching, True or False | By the end of the semester | % 35 | understanding Intellectual and general skills |
| Final oral exam | By the end of the semester | % 10 | understanding and Intellectual skills |
| Periodic exams | | 30% | 18 marks |
| Final written exam | | 35% | 21 marks |
| Final oral exam | | 10% | 6 marks |
| Final practical exam | | 25% | 15 marks |
| Total | | | 60 marks |

Histology

- Student assessment Methods

Assessment 1: Periodic and mid term MCQ assessment.

Assessment 2: Final practical examination.

Assessment 3: Final written examination.

Assessment 4: Final oral examination.

Assessment 5: Final drawing examination.

Assessment 6: Course assignment (practical book).

Weighting of assessments :

| | |
|--------------------------------------|------------------|
| Periodic and mid term MCQ assessment | 10 marks(22.22%) |
| Final written Examination | 17 marks(37.77%) |
| Final Oral Examination | 4 marks(8.88%) |
| Final practical examination | 5 marks(11.11%) |
| Final drawing examination | 6 marks(13.33%) |
| Course assignment (practical book) | 3 marks(6.66%) |

Total

45 marks(100%)

Physiology

| Measured Skills (ILOs) | Tools -) | Time Schedule | Weight |
|---|--|--|------------------|
| Knowledge & understanding (A1- A2), Intellectual (B1-B3) | (short essay and MCQs) Assessment 1: Periodic assessment | By the end of the 5 th week). | 30% |
| | Assessment 2: Periodic assessment | by the end of the 9 th week | (13marks) |
| intellectual (B1-B3), practical & Professional Skills (C1- C2) | Assessment 3: Practical examination | by the end of the semester | 25% (11marks) |
| Knowledge & understanding (A1- A2), Intellectual (B1-B3) | (short essay and MCQs) Assessment 4: Final written examination | by the end of the semester | 35% (17marks) |
| Knowledge & understanding (A1- A2), Intellectual (B1) & Some general skills (D1&D2) | Assessment 5: Final oral examination | by the end of the semester | 10% (4marks) |

6- List of references

Anatomy

- Course notes: books authorized by department

Digestive System

- Essential books: Cunningham's anatomy, Gray's anatomy and National books
- Kadasn's Textbook of Anatomy (Clinically Oriented), Upper & Lower Extremitities(v1)
- **Anatomical Sciences Journal (ASJ)**

Histology

6.1- Essential Books (Text Books):

Junqueira, Carneiro and Kelly(2008) L.C,2016 Basic Histology,7th ed
.Librairie du liban and Lang buruit ,London ,New York

6.2-Recommended Books:

Fawcett (2006):A Text book of Histology ,12th edition .Chapman and Hall. New york ,London

6.3- Periodicals:

Egyptian J of Histology

International J of Experimental Research

6.4- Web Sites of histology:

Physiology

- lectures notes
- Recommended books
 - Physiology department book and Lectures note. (Lectures and practical)

- Ganon textbook of physiology
 - Essential pathophysiology
- Journal and websites
- American Journal of physiology

7- Facilities Required for Teaching and Learning

- Classrooms for small group tutorials (equipped with data show and computers)
- Equipped laboratories
- Clinical skills labs.
- Digital library
- Lecture Halls (data show)

Course coordinator:

Dr. Eman Ahmad Abd El-Rahim

Dr/ Haytham Mohamed ALI

External Evaluator:

Prof.Dr Amal Taha Abou El ghait Taha

Assistant prof: Ahmed Mostafa Mahmoud