



Logbook of Master Degree in Medical Physiology WERSITY FACULA Medical Physiology





Personal Data
Name:
Department:
Mobile Number
E-mail Address:
Master Degree:
Date of registration:/
MD/PhD Degree:
Date of registration://
Signature: Wice Dean for research and postgraduate study
Head of the Department Vice Dean for research and postgraduate study





Aim of the Logbook.

To provide evidence that the candidate attained the desired level of competence required to gain the award. In this book, the candidate will document all academic and clinical skills he/she attained during their training.

Important regulations (for MS candidates).

- **-To be legible for the first part MS exam** you have to attend at least 70% of the lectures of each course in the semester as evidenced by the logbook
- -To be legible for the (MCQ online) exam at the end of each of second part semesters you have to attend at least 70% of the lectures of each course/module in the semester as evidenced by the logbook.
- To be legible for the final MS exam.
- 1- A time interval of 36 months must pass since the day of registration to the job for residents and demonstrators and 30 months since the day of degree registration for non-residents.
- 2- You have to spend a year of daily clinical/practical training in the department or two years with three times/week practical/clinical training.
- 3-You have to register 4 semesters on Ibn lhaythm registration page.
- 4- You have to attend 70% of the lectures of each course in the second part of MS degree.
- 5- You have to fulfill and perform 70% of the practical skills documented in the logbook.

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Bylaws of the MSc

- <u>I. The candidate should fulfill all required</u> scientific activities specified in this Logbook. Logbook activities include the followings;
- a) Theoretical courses (23 credit hrs): distributed as follow;
- 1. First part (in semesters 1 and 2) (lectures and practical classes): 8 credit hrs
- 2. **Second part** (in semesters 3 and 4) (lectures and practical classes): 15 credit hrs
- b) Training program and Activities for 36 months: (in semesters 1-5): 10 credit
- All details of hours and courses, training program and activities are mentioned in table in page 4.
- 75% of credit hrs is the minimum required before the candidate is allowed to submit for the final PhD examination.
- **II. The minimum requirement** of each individual Logbook activity is shown as follow:
- a) Attendance of seminars & journal clubs of others (at least 2 credit hrs)
- b) Attendance of thesis discussion (at least 1 credit hr).
- c) Attendance of conferences (at least 1 credit hr).
- d) Attendance of the annual scientific conference of Mansoura Faculty of Medicine is a must.
- e) Presentation of seminars (at least 2 credit hrs).
- f) Presentation of journal clubs (at least 2 credit hrs).
- g) Preparation of review or original articles or (at least 2 credit hrs).

Key: The credit hours are calculated as follow:

- 1) I hour **theoretical lecture** per week = 1 credit hour.
- 2) 2 hours **practical class** per week = 1 credit hour





درجة الماجستير في الفسيولوجيا الطبية

Medical Physiology

القسم المانح للدرجة: الفسيولوجيا الطبية (علم وظائف الأعضاء).

المقر ارت الد ارسية وتوزيع الساعات المعتمدة

، المعتمدة	الساعات	الكود	Course	المقرر	
الإجمالي	المقرر	1	ر جام		
	3	PHYS 503	Physiology of cell and electrophysiology	فسيولوجيا الخلية والالكتروفسيولوجي	الفصل الدراسي الاول
8	5	PHYS 504 PHYS 506 PHYS 510	Elective Course: Medical Biochemistry Medical Pharmacology Internal Medicine	المقرر الاختياري (يختار مقرر واحد) - علم كيمياء الحيوية - علم الفارماكولجيا - علم الباطنة	و الثان <i>ي</i>
100	13	PHYS 503 MP	Medical Physiology	الفسيولوجيا الطبية	الفصل الدراسي
15	NS2	PHYS 504 AP PHYS 504 DSP	Elective Course: - Aviation Physiology - Deep Sea Physiology	مقرر اختياري (يختار مقرر واحد) - فسيولوجيا المرتفعات والطيران -فسيولوجيا الأعماق	الثالث والرابع
10)	UNIVE	لفسيولوجيا الطبية	البرنامج التدريب الإكلينيكي والعملي في المحملي في المحملة	كراسة الأنشطة
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10)				الرسالة
45	5		ساعات المعتمدة	إجمالي ال	





Contents

- ☐ First part (semester 1&2):
 - Section I: Scientific lectures.
 - Section II: practical skills
 - Second part .
 - ✓ Section I: Scientific lectures.
 - ✓ Section II: practical skills.
 - ✓ Section III. Seminars.
 - ✓ Section IV: Student teaching sections.
 - ✓ Section V: scientific activities

(Conferences/workshops, Journal club, Attended thesis discussions, and Prepared review or original articles).

☐ Final report.











Section I. Scientific lectures.

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- Name of the course: Cell and electrophysiology
- Compulsory

- First part

Teaching hours: 45 Semester: (spring|fall|summer) year......

Date	Title of the lecture	Lecturer's signature
	Organization of human body and body fluids	
/- >	Homeostasis and feedback mechanisms	
	Functional organization of cell membrane and functions of cell membrane and its components	
13/	Intercellular connections and their functional organization	12-1
	Transport through cell membrane (diffusion, active transport, osmosis and vesicular transport	
星	Resting membrane potential, action potential and graded potentials in excitable cells (neurons, skeletal, smooth and cardiac muscles)	CIM
	Ion channels and membrane potentials and equilibrium potentials	
PA	Functions of cell organelles such as mitochondria, ribosomes, etc	HI.
	DNA replication, transcription and translation	
	Organization of human body and body fluids	





- Name of the course: Internal Medicine
- Elective First part

Teaching hours: 75 Semester: (spring|fall|summer) year......

Date	Title of the lecture	Lecturer's signature
	Acid Peptic Disorders	
/.	Abnormal liver functions	
	Liver cell failure	
	Pancreatitis	2'\
	Bowel habit disorders	
1.57	Acute right sided heart failure	1.12
	Bowel habit disorders	
1211	Acute right sided heart failure	
	Acute left sided heart failure	
181	Chronic right sided heart failure	121
	Respiratory failure type I	
12	Respiratory failure type 2	4.
	Arterial blood gases	
	Anaemias	
	Thrombotic disorder	
	Diabetes mellitus	
	Thyroid disorders	
	Suprarenal gland disorders	





	Pituitary glands disorder	
	Acute Renal failure	
	Chronic renal failure	
	Coma	
	Convulsions	
	Rheumatic fever	
	Rheumatic arthritis	
(:3)	Cerebrovascular stroke	
	Neurodegenerative disorders e.g Parkinson and cerebral ataxia	
	Neuromuscular disorders	







Section II: Practical skills WERSITY FACULTY OF THE SECTION III: Practical skills





Name of the course: Cell and electrophysiology

Name of the procedure/operation	Total number required	Observer	Assistant	Independent
Recording ABP in rats by rat tail indirect system and studying the effect of exercise & autonomic drugs	2	1	1/2	1
2.Measurement of glucose uptake in skeletal muscle (Diaphragm & gastrocnemius) (at rest & in response to exercise)	2		1	1
3.Measurement of some serum parameters such as blood glucose and serum creatinine by UV spectrophotometer	2			NE ST
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Name of the course: Internal Medicine

Name of the procedure/operation	Total number required	Observer	Assistant	Independent
1- General examination and vital signs	7	3	2	2
2- Abdominal examination	6	2	2	2
3- Chest examination	2	1	12	- /
4- Cardiovascular examination	2	1	1	
5- ECG recording	2	1	J - 1	1
6- Assessment of coma	1	1/	/ - /	N/
7- Assessment of anemia	2	(1)	1/3	2/1
8- Assessment of jaundice cases	2	1	100	1
9- Assessment of hemorrhagic disorders	1	OUITY	04-	-





Level of	Date	Location	Signature of
participation			supervisor
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2- Abdominal exa	mination		12/2
2- Abdominal exa	mination		NE SK
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2- Abdominal exa	mination		O'C/WE ST
2- Abdominal exam	mination		ANJO/C/ME SK
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4- Cardiovascular examination
5- ECG recording
6- Assessment of coma
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7- Assessment of anemia
12/10/10/10/10
8- Assessment of jaundice cases
1.4 CM
9- Assessment of hemorrhagic disorders





Second Part







Section I. Scientific lectures





Name of the course: Medical Physiology part I

Compulsory Second part

Credit hours: 5 Semester: (spring|fall|summer) year......

Date	Title of the lecture	Lecturer's signature
	Physiology of autonomic NS	
	1) Functions of sympathetic and parasympathetic NS	
	2) Autonomic ganglia	
	3) Functions of ANS under different conditions.	
	4) Pharmacology of ANS	
1 9	Physiology of Excitable Tissues (Nerve & Muscle)	1
3	1) Properties of nerve fibers	1 4
E	2) R.M.P, A.P and Graded potential	
12	3) Factors affecting excitability of Types nerve fibers	101
	4) Nerve muscular transmission	161
	5) Mechanism of skeletal ms. Contraction	W/
	6) Changes occurring in the muscle during and after	M.
	muscle contraction	
	7) Types and Factors affecting skeletal ms Contraction	
	8) Physiology of Smooth muscles	
	CVS Physiology	
	1) Cardiac properties	
	2) Cardiac cycle, JVP, AP, ECG, HS	
	3) Heart rate	





	4) C .O .P and cardiac reserve	
	5) Arterial blood pressure	
	6) Capillary, Venous, Lymphatic, Coronary, Pulmonary,	
	Cerebral, splanchanic and Cutaneous circulations	
	7) Hemorrhage and Shock	
	Respiratory physiology	
	ave it is a second of the seco	
	1) Pulmonary ventilation.	
/.	2) Gas transport.	
/ 0	3) Regulation of respiration.	//\
/ /	4) Respiratory adjustments in health & disease.	7_3
	Blood physiology	
	A -2000 H 17777/2- 1	
	1) Plasma proteins	
	2) Blood volume, total body water	
	3) Homeostasis and disorders of homeostasis	
	4) RBCS	
	5) Blood groups and Blood transfusion	
	6) WBC and Immunity	
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Name of the course: Medical Physiology part II

Compulsory Second part

Credit hours: 8 Semester: (spring|fall|summer) year......

Date	Title of the lecture	Lecturer's signature
	Digestive system 1) Digestive & absorptive function of GIT. 2) Reflexes controlling function of GIT. 3) Hormones controlling function of GIT. 4) Functional abnormalities in GIT	
SONAW &	Endocrine and reproductive physiology 1) Chemical nature, release and transport of hormones and mechanism of hormone action. 2) Pituitary gland (adeno and neurohypophysis) and Physiology of growth. 3) Thyroid gland. 4) Parathyroid gland and Endocrine regulation of calcium & phosphate metabolism. 5) Endocrine regulation of blood glucose and endocrine function of pancreas 6) Suprarenal gland: cortex and medulla. 7) Physiology of male and female reproductive system	SOLCINE ST
	Renal Physiology 1) Nephron and juxtaglomerular apparatus. 2) Renal blood flow RBF. 3) Glomerular filtration and Glomerular filtration rate. 4) Methods of studying renal physiology and concept of clearance methods. 5) Tubular function 6) Renal handing of water. 7) Control of body fluid osmolarity (water balance). 8) Regulation of sodium excretion & extracellular fluid	





	volume.	
	9) Diuresis and diuretics.	
	10) Renal handling of K+, Ca+2, mg+2, and phosphate.	
	11) Role of the kidney in acid – base balance.	
	12) Physiology of Micturition	
	Central nervous system	
	1) Physiology of autonomic N. system	
	2) Physiology of somatic sensations	
	3) Neurotransmitters and neuromodulators	
	4) Reflex Actions.	
/:	5) Control of posture and Movement.	
/ 9	6) Motor neuron lesions and spinal cord lesions	V/ \
	7) Learn <mark>ing, Memory</mark> , languages speech.	D-1
	8) Electrical activity of the brain, sleep- wake stoles &	
/ 4/	circadian rhythms	
/ \ \ /	9) Hypothalamic role in endocrine & control, stress and	1:1-1
1:0)	emotions	10
	10) Cerebrospinal fluid formation –composition and	Ш
3	function	
	Physiology of special senses	
	1) Physiology of vision (image formation and	
	p <mark>hototransd</mark> uction)	
	2) Functions of intraocular fluids and accessory	
	extroocular structures	
	3) Physiology of hearing	
	4) Taste sensation	
	5) Olfactory sensation	
	Physiology of metabolism	
	Physiology of metabolism 1) Energy metabolism	
	2) Metabolic Rate and thermogenesis	
	3) Control of Food Intake and Regulation of Energy	
	Stores	
	4) Regulation of Body Temperature	
	5) Physiology of Exercise	





Name of the course: Aviation and space Physiology Elective Second part

Credit hours: 2 Semester: (spring|fall|summer) year......

Date	Title of the lecture	Lecturer's signature
	Effects of Low Oxygen Pressure on the Body	
/.	Alveolar PO2 at Different Elevations	
	Effect of Breathing Pure Oxygen on Alveolar PO2 at Different Altitudes	
151	The "Ceiling" When Breathing Air and When Breathing Oxygen in an Unpressurized Airplane	15.1
	Acute Effects of Hypoxia	
30	Acclimatization to Low PO2	IV
	Natural Acclimatization of Native Human Beings Living at High Altitudes	
125	Acute Mountain Sickness and High-Altitude Pulmonary Edema	121
	Chronic Mountain Sickness	
13	Effects of Acceleratory Forces on the Body in Aviation and Space Physiology	HII.
	Effects of Linear acceleratory Forces on the Body	
	"Artificial Climate" in the Sealed Spacecraft	
	Weightlessness in Space	
	Physiologic Problems of Weightlessness (Microgravity)	





Name of the course: Deep Sea Physiology

Elective Second part

Credit hours: 2 Semester: (spring|fall|summer) year......

Date	Title of the lecture	Lecturer's signature	
	Effects of exposure to high pressure of N2 and N2 narcosis		
	Effects of acute and chronic oxygen toxicity		
	Hyperbaric oxygen		
1 / /	CO2 toxicity at great depths of the sea	p.·	
	Decompression of the drivers at high partial pressure at deep sea and decompression sickness		
1:0	SCUBA diving and physiological problems of submarines	12	

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Name of the course: Molecular Biology of the cell Elective Second part

Credit hours: 2 Semester: (spring|fall|summer) year......

Date	Title of the lecture	Lecturer's signature
	Cells and Genomes	
	Cell Chemistry and Biosynthesis	
	Basic Genetic Mechanisms	
19	DNA and Chromosomes	/ \
	DNA Replication, Repair, and Recombination	
13/	Control of Gene Expression	11.1.1
	 Manipulating Proteins, DNA, and RNA Isolating Cells and Growing Them in Culture Fractionation of Cells Isolating, Cloning, and Sequencing DNA Analyzing Protein Structure and Function Studying Gene Expression and Function 	
	 Visualizing Cells Looking at the Structure of Cells in the Microscope Visualizing Molecules in Living Cells 	`
	Internal Organization of the Cell • Membrane Structure	
	Membrane Transport of Small Molecules and	





- 111 /100		
	the Electrical Properties of Membranes	
	Intracellular Compartments and Protein	
	Sorting	
	 The Transport of Molecules between the Nucleus and the Cytosol 	
	Intracellular Vesicular Traffic	
	Cell Communication	
	General Principles of Cell Communication	
	Signaling through G-Protein-Linked Cell-	
	Surface Receptors	
	 Signaling through Enzyme-Linked Cell-Surface Receptors 	
	 Signaling Pathways That Depend on Regulated Proteolysis 	
	·	
12	The Cell Cycle and Programmed Cell Death	3
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Section II. Practical skills





Name of the procedure/operation	Total	Observer	Assistant	Independent
	number			
	required			
1 Industion of ONE of the followings	_			4
1. Induction of ONE of the followings experimental animal model such as;	5	2	2	1
- DM (type 1 and 2)	4			
- Renal Ischemia - Liver cirrhosis				
- Hypo- and hyperthyroidism		- 1		
Drug-induced nephrotoxicityObesity in rats			6 1	
- Neurological models such as parkinsonism				
2.Effects of the followings on tracheal	5	1	2	2
smooth muscles motility a) Temperature	(3) (1) (1)	11///	1//	
b) Ions: ca. K+, Mg2+.		111113	1.1	
c) Ion channel blockers d) Autonomic drugs	1	-00	121	6
e) Autacoids	_	-1		D.
3.Assessment of Compliance of Rabbit's	3	1	1	Щ1
lung.	Jason			2
	116		/ <	5/
	2	1	1/2	1
4. Assessment of platelet aggregation.	1'		10	
5- Effects of the followings on smooth	5	1	2	2
muscle motility of isolated segment rabbit small intestine			16.	0
a) Temperature		TITT		
b) lons: ca. K+, Mg2+.	ITVE	ACULTY		
c) Ion channel blockers				
d) Autonomic drugs				
e) Autacoids				
f) Some GIT hormones				





6- Effects of the followings on smooth muscle motility of isolated uterus and Fallopian tube	5	1	2	2
a) Temperature				
b) Ions: ca. K+, Mg2+.				
c) Ion channel blockers				
d) Autonomic drugs	1 0			
e) Autacoids	-	6.		
f) Some GIT hormones		1.		
7-Effect of different types of stress (exercise – cold – pain – noise) on some physiological parameters.	4	1	1	2
8- Effects of the followings on contractility of isolated perfused whole heart and isolated atria	5	2	1	2
a) Temperature	1-	60	121	61
b) Ions: ca. K+, Mg2+.	7	-1	. 1	0-1
c) Ion channel blockers		70 9	,	Ш
d) Autonomic drugs	Jase			\geq
e) Autacoids	1		/ <	5/
	-			
9- Effects of the followings on Aortic strip smooth muscle contraction a) Temperature b) Ions: ca. K+, Mg2+. c) Ion channel blockers d) Autonomic drugs e) Autacoids	5	A CULTY	OF MILE	2
10-Determination of pain threshold in animal by hot plate or paw-pressure test and studying the effect of some drugs e.g. opiates on pain threshold in rats	3	1	1	1





- 1. Induction of ONE of the followings experimental animal model such as;
- DM (type 1 and 2)
- Renal Ischemia
- Liver cirrhosis
- Hypo- and hyperthyroidism
- Drug-induced nephrotoxicity
- Obesity in rats
- Neurological models such as

Level of participation	Date	Location	Signature of supervisor
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1-1	917		lu l
2.Effects of the followings o	n tracheal smooth musc	les motility	
a) Temperature. b) lons: ca. K+, Mg2+.			
c) Ion channel blockers.			
d) Autonomic drugs.			
e) Autacoids.			

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3.Assessment of Compliance of Rabbit's lung					
Level of participation	Date	Location Signature of super			
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	المعراة				
4. Assessment of platelet ag	ggregation				
17/	- 11	11117	2:		
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- 5- Effects of the followings on smooth muscle motility of isolated segment rabbit small intestine
- a) Temperature
- b) Ions: ca. K+, Mg2+.
- c) Ion channel blockers
- d) Autonomic drugs
- e) Autacoids
- f) Some GIT hormones

supervisor
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6- Effects of the following	s on smooth muscle motil	ity of isolated uterus and	Fallopian tube
a) Temperature			
b) Ions: ca. K+, Mg2+.			
c) Ion channel blockers			
d) Autonomic drugs			
e) Autacoids			
f) Some GIT hormones			
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7-Effect of different types of s	stress (exercise – coi	a – pain – noise) on some	pnysiological parameters.
Level of participation	Date	Location	Signature of supervisor





8- Effects of the followings	on contractility of isolate	ed perfused whole heart a	and isolated atria
a) Temperature.			
b) Ions: ca. K+, Mg2+.			
c) Ion channel blockers.			
d) Autonomic drugs.			
e) Autacoids.			
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- 9- Effects of the followings on Aortic strip smooth muscle contraction
- a) Temperature
- b) Ions: ca. K+, Mg2+.
- c) Ion channel blockers
- d) Autonomic drugs
- e) Autacoids

Level of participation	Date	Location	Signature of supervisor





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10-Determination of pain t	hreshold in animal by ho	t plate or paw-pressure to	est and studying the effect of
some drugs e.g. opiates on	pain threshold in rats		
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Section III: Seminars AND THE PACULTY OF MEDICAL PROPERTY OF MEDICAL





1- Seminar attendance: 25

2- Seminar performance: 10

1- Attendance

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2- Performance

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Section IV:

Student teaching sections

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List of requirements: (50 section)

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Date	Section subject	Supervisor's signature
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PA		MI.





Section V: Scientific activities





Conferences/workshops

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Conferences			
Total number required	Attendance	Organization	Presentation
6	3	2	1
Total number required	Worksho Attendance	Organization	Presentation
4	2	1	1

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Activity (Conference/Workshop	Role	Date	Supervisor's signature
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12/3			15/
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Role:

- -Attendant
- -Organizer
- -Presenter











3- Journal club attendance: 10

4- Journal club performance: 5

1- Attendance

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2- Performance

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Prepared Review Of Original Articles

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Final Report

			Level of Performance			Attendance Hours			Academic advisor signature	
			A	В	С	D	TH	AH	AH%	S
First part	Compulsory course	lectures		2						
	Training program	Sem 1				000	Y			
	100	Sem 2						1	V	
	Activities	.1	11						1	-2
Second part	Elective course	Lectures				A				1
	Compulsory course	Lectures		1	4				1	E
		Practical				18	9	7		Ш
	Training program	Sem 3		a	1	0	1	1		3
		Sem 4	0	1	30	-				01
		Sem 5	15	1				1	15	2/
		Sem 6				ø		/	111	
	Activities					. 1	N	0	/	

- Scoring of performance, A= excellent, B= sufficient, C= weak, D= unacceptable
- Attendance hours, TH= total hours, AH= attended hours, AH%= percentage of attended hours

Coordinator

Academic Advisor

Head of Department