Course
MBChB
BPharm
BDS

LECTURES
WEDNESDAY 2 TO 5 PM
THURSDAY 11:00 to 1 PM
MILLENIUM II HALL

YEAR TWO
FIRST SEMESTER

PRACTICALS / TUTORIALS
THURSDAY 8:30 to 10:30 AM
FRIDAY 10.00 to 1PM

14/1/18

University of Nairobi
College of Health Science
Department of Medical Physiology
Lectures, Tutorials & Practicals
2017-2018 Academic year

RESPIRATORY PHYSIOLOGY

WK 1	WED	29-Nov	14:00	15:00	Introduction to Respiration Physiology	M.F. DIN
	WED	29-Nov	15:00	16:00	Respiratory System- Organization	M.F. DIN
	WED	29-Nov	16:00	17:00	Introduction to practicals	KINYUNGU/NZIVO
	THUR	30-Nov	08:30	10:30	PRACTICALS / TUTORIALS	ALL
	THUR	30-Nov	11:00	12:00	RS - Gas laws and physical principles	M.F. DIN
	THUR	30-Nov	12:00	13:00	RS - Ventilation and mechanisms of ventilation	M.F. DIN
	FRIDAY	1-Dec	10:00	13:00	PRACTICALS / TUTORIALS	ALL
WK 2	WED	6-Dec	14:00	15:00	INTRODUCTION TO HEARING PRACTICAL	M.F. DIN
	WED	6-Dec	15:00	16:00	RS - Volume changes and measurements	K.THAIRU
	WED	6-Dec	16:00	17:00	RS - Volume changes and measurements	K.THAIRU
	THUR	7-Dec	08:30	10:30	PRACTICALS	ALL
	THUR	7-Dec	11:00	12:00	INTRODUCTION TO RESPIRATION PRACTICAL	K. THAIRU
	THUR	7-Dec	12:00	13:00	RS - Blood/gas barrier and alveolar function	K.THAIRU
	FRIDAY	**8-Dec**	**10:00**	**13:00**	**PRACTICALS**	**KINYUNGU/NZIVO**
WK 3	WEDNESDAY	13-Dec	14:00	15:00	INTRODUCTION TO PNS PRACTICAL	A.W.MURIITHI/P.M. MBUGUA
	WEDNESDAY	13-Dec	15:00	16:00	INTRODUCTION TO PNS PRACTICAL	A.W.MURIITHI/P.M. MBUGUA
	WEDNESDAY	13-Dec	16:00	17;00	INTRODUCTION TO VISION PRACTICAL	T.K.MWENDWA
	THURSDAY	14-Dec	08:30	10:30	PRACTICALS	ALL
	THURSDAY	14-Dec	11:00	12:00	RS - Pulmonary circulation	M.F. DIN
	THURSDAY	14-Dec	12:00	13:00	RS - Ventilation perfusion ratio and methods of measurement	M.F. DIN
	FRIDAY	15-Dec	10:00	13:00	PRACTICALS	ALL
WK 4	WED	20-Dec	14:00	15:00	RS - Laryngeal physiology	M.F. DIN
	WED	20-Dec	15:00	16:00	RS - Gas transport (CO2 & O2) and blood/tissue gas exchange	M.F. DIN
	WED	20-Dec	16:00	17-:00	RS - Control of respiration (General principles)	M.F. DIN
	THUR	21-Dec	08:30	10:30	PRACTICALS	ALL
	THUR	21-Dec	11:00	12:00	RS - Integrated responses	M.F. DIN
	THUR	21-Dec	12:00	13:00	RS - Space, High altitude and depth physiology	F.O.BUKACHI
	FRI	22-Dec	10:00	13:00	PRACTICALS	
					CHRISTMAS BREAK	
WK 5	WEDNESDAY	10-Jan	14:00	15:00	RS - Gas transport (CO2 & O2) and blood/tissue gas exchange	M.F. DIN
	WEDNESDAY		15:00	16:00	RS - Laryngeal physiology	M.F. DIN
	WEDNESDAY		16:00	17:00	RS - Control of respiration (General principles)	M.F. DIN
	THURSDAY	11-Jan	08:30	10:30	PRACTICALS	ALL
	THURSDAY		11:00	12:00	REMEDIAL	E.S.OTIENO
	THURSDAY		12:00	13:00	REMEDIAL	E.S.OTIENO
	FRI	12-Jan	10:00	13:00	PRACTICALS	ALL
WK 6	WED	17-Jan	14:00	15:00	RS - non-respiratory functions of the lungs (Protective/Endocrine)	E.S.OTIENO
	WED		15:00	16:00	RS - Cardiopulmonary failure	E.S.OTIENO
	WED		16:00	17:00	Extracorporeal circulation and life support	E.S.OTIENO
	THUR	18-Jan	08:30	10:30	self study	all
	THUR		11:00	12:00	RS - Oxygen therapy and resuscitation	E.S.OTIENO
	THUR		12:00	13:00	RS - Oxygen therapy and resuscitation	E.S.OTIENO
	FRI	19-Jan	10:00	13:00	self study	ALL
					Renal Physiology	
WK 7	WEDNESDAY	24-Jan	14:00	15:00	Renal function - Overview	O. OKOINGO
	WEDNESDAY		15:00	16:00	Renal - Organization, evolutional and development	O. OKOINGO
	WEDNESDAY		16:00	17:00	Renal - regulatory mechanisms / renal blood flow	O. OKOINGO
	THURSDAY	25-Jan	08:30	10:30	self study	ALL
	THURSDAY		11:00	12:00	Renal - Filtration and clearance	O. OKOINGO
	THURSDAY		12:00	13:00	Renal - Proximal tubular function /	O. OKOINGO
	FRIDAY	26-Jan	10:00	13:00	self study	ALL
WK 8	WEDNESDAY	31-Jan	14:00	15:00	loop of Henle	E.S. OTIENO
	WEDNESDAY		15:00	16:00	Renal - distal tubule and collecting ducts	E. S. OTIENO
	WEDNESDAY		16:00	17:00	Renal - concentration mechanisms, handling of hydrogen ions and water	E. S. OTIENO
	THURSDAY	1-Feb	08:30	10:30	PRACTICALS	ALL
	THURSDAY		11:00	12:00	Micturition and bladder function	E. S. OTIENO
	THURSDAY		12:00	13:00	Renal - hormonal functions of the kidney	E. S. OTIENO
	FRIDAY	2-Feb	10:00	13:00	PRACTICALS	ALL
WK 9	MONDAY		08:30	11:00	EXAM MODERATION/ (Led by exam committee)	ALLSTAFF
	WEDNESDAY	7-Feb	14:00	15:00	Fluid and electrolyte balance	E. S. OTIENO
	WEDNESDAY		15:00	16:00	Fluid and electrolyte balance	E. S. OTIENO
	WEDNESDAY		16:00	17:00	Fluid therapy	E. S. OTIENO
	THURSDAY	8-Feb	08:30	10:30	PRACTICALS	ALL
	THURSDAY		11:00	12:00	Renal failure, dialysis, renal transplants	E. S. OTIENO
	THURSDAY		12:00	13:00	Renal failure, dialysis, renal transplants	E. S. OTIENO
	FRIDAY	9-Feb	10:00	13:00	PRACTICALS	ALL
					GASTROINTESTINAL TRACT	
WK 10						
	WEDNESDAY	14-Feb	14:00	15:00	GIT - General functional organization	A.W.MURIITHI
	WEDNESDAY		15:00	16:00	GIT - Principles of control of gut function (neuromyogenic)	A.W.MURIITHI
	WEDNESDAY		16:00	17:00	GIT - Principles of control of gut function (humoral)	A.W.MURIITHI
	THURSDAY	15-Feb	08:30	10:30	PRACTICALS	ALL
	THURSDAY		11:00	12:00	GIT - Hepatic portal circulation	A.W.MURIITHI
	THURSDAY		12:00	13:00	GIT - Upper GI motility (Mouth and Oesophagus)	A.W.MURIITHI
	FRIDAY	**16-Feb**	10:00	13:00	**MID-SEMMESTER CAT (60 MCQS- 1HOUR 30 MIN)**	**EXAMS OFFICER**
WK11	WEDNESDAY	21-Feb	14:00	15:00	GIT - Upper GI motility (Stomach)	A.W.MURIITHI
	WEDNESDAY		15:00	16:00	GIT - Lower GI motility (Biliary and Pancreatic)	A.W.MURIITHI
	WEDNESDAY		16:00	17:00	GIT - Lower GI motility (Intestines and Rectum)	A.W.MURIITHI
	THURSDAY	22-Feb	08:30	10:30	PRACTICALS	ALL
	THURSDAY		11:00	12:00	Secretions of the digestive tract 1	P.M.MBUGUA
	THURSDAY		12:00	13:00	Secretions of the digestive tract 2	P.M.MBUGUA
	FRIDAY	23-Feb	10:00	13:00	PRACTICALS	ALL
					Digestion and Absorption	
WK12	WEDNESDAY	28-Feb	15:00	16:00	Digestion and Absorption - General	P.M.MBUGUA
	WEDNESDAY		16:00	17:00	GIT - Carbohydrate digestion and absorption	P.M.MBUGUA
	WEDNESDAY		16:00	17:00	GIT - Carbohydrate digestion and absorption	P.M.MBUGUA
	THURSDAY	1-Mar	08:30	10:30	PRACTICALS	ALL
	THURSDAY		11:00	13:00	GIT - Protein digestion and absorption	P.M.MBUGUA
	FRIDAY	2-Mar	10:00	13:00	PRACTICALS	ALL
WK 13	WEDNESDAY	7-Mar	15:00	16:00	GIT - Lipids digestion and absorption	P.M.MBUGUA
	WEDNESDAY		16:00	17:00	GIT - Lipids digestion and absorption	P.M.MBUGUA
	WEDNESDAY		16:00	17:00	GIT - Absorption of vitamins /Absorption of ions	P.M.MBUGUA
	THURSDAY	8-Mar	08:30	10:30	PRACTICALS	ALL
	THURSDAY		11:00	13:00	GIT - Absorption of water /diarrhoea - physiological effects	P.M.MBUGUA
	FRIDAY	9-Mar	10:00	13:00	PRACTICALS	ALL
WK 14	WEDNESDAY	14-Mar	15:00	16:00	GIT - diarrhoea, intraveneous nutrition and hyperalimentation	P.M.MBUGUA
	WEDNESDAY		16:00	17:00	GIT - diarrhoea, intraveneous nutrition and hyperalimentation	P.M.MBUGUA
	WEDNESDAY		16:00	17:00	Acid /base balance	M.F.DIN
	THURSDAY	15-Mar	08:30	10:30	PRACTICALS	ALL
	THURSDAY		11:00	13:00	Applied aspects of Acid /base balance	M.F.DIN
	FRIDAY	16-Mar	10:00	13:00	PRACTICALS	ALL
WK 15	WEDNESDAY	21-Mar	15:00	16:00	GIT - Splanchnic Flow and liver function	P.M.MBUGUA

	WEDNESDAY		16:00	17:00	GIT - Hepatobilliary and enterohepatic circulation of bile	P.M.MBUGUA
	WEDNESDAY		16:00	17:00	GIT - Hepatobilliary and enterohepatic circulation of bile	P.M.MBUGUA
	THURSDAY	22-Mar	08:30	10:30	SELF STUDY	ALL
	THURSDAY		11:00	13:00	SELF STUDY	
	FRIDAY	23-Mar	10:00	13:00	PRACTICALS	ALL
WK16	WEDNESDAY	28-Mar	15:00	16:00	NUTRITION - Hypothalamus and appetite regulation	M.W.MURIITHI
	WEDNESDAY		16:00	17:00	NUTRITION - Hypothalamus and control of thirst	M.W.MURIITHI
	WEDNESDAY		16:00	17:00	NUTRITION - Protein balance and osmotic pressure	M.W.MURIITHI
	THURSDAY	29-Mar	08:30	10:30	PRACTICALS	ALL
	THURSDAY		11:00	13:00	NUTRITION - metabolic aspects	T.K.MWENDWA
	FRIDAY	30-Mar	10:00	13:00	PRACTICALS	ALL
WK 17	TUESDAY	3-Apr	08:30	11:00	EXAM QUESTIONS MODERATION(led by exam committee)	ALL STAFF
	WEDNESDAY	4-Apr	15:00	16:00	REVISION WEEK	ALL
	WEDNESDAY		16:00	17:00	REVISION WEEK	ALL
	WEDNESDAY		16:00	17:00	REVISION WEEK	ALL
	THURSDAY	5-Apr	08:30	10:30	REVISION WEEK	ALL
	THURSDAY		11:00	13:00	REVISION WEEK	ALL
	FRIDAY	6-Apr	08:30	10:00	REVISION WEEK	ALL
	FRIDAY		10:00	13:00	REVISION WEEK	ALL
WK 18	WEDNESDAY		08:30	13:00	END OF FIRST SEMESTER EXAMINATIONS	ALL
					EXAM WEEK	

END OF FIRST SEMESTER

	hours	%
T.N. KIAMA	22	9
T.K.MWENDWA	20	8
P.G.KIOY	15	6
O. OKONG'O	17	7
N.B.PATEL	20	8
M.W.MURIITHI	23	10
M.F.DIN	23	10
H.N.KARIUKI	19	8
F.O.BUKACHI	25	11
F.N.WAWERU	18	8
E.S.OTIENO	19	8
A.W.MURIITHI	16	7
	237	

Approved: .....
Date: .....

Lecture Schedule

University of Nairobi
College of Health Science
Departement of Medical Physiology
Lectures, Tutorials & Practicals
2009 - 2010 Academic Year

Code
HMP 100
UPC 100
VMP 100

Lecture Topics	HR	Lecturers	Lecture outlines
Introduction to Physiology		NBP	
Descriptive terms and units of expression	2	MWM	
concept of normality		MWM	
Cell Physiology	9		
The Cell and functional organization		MWM	
cellular organelles		MWM	
The Plasma membrane and its functions		MWM	
The Plasma membrane and its functions		MWM	
Transport across cell membranes		MWM	
cellullar comunications		TKN	
cellullar comunications		TKN	
applied cell physiology		TKN	
applied cell physiology		TKN	
Medical Statistics	10		
Basic Statistics -Introduction		NBP	yes
descriptive statistics		NBP	yes
measures of location and central tendecy		NBP	yes
normal distribution		NBP	yes
Variability & frequency distribution		NBP	yes
Contigency tables and chi squares		TKM	
Correlation of measurements		TKM	
Significance test based on normal distribution		TKM	
Simple experimental design and analysis of variance		TKM	
Regression Analysis		TKM	
definition & characteristics of life	2	MFD	
Organisation and specialisation (Tissues, Organs and Organ systems)		MFD	
Control and Body compartments	4		
Physiological control		MFD	
Physiological control		MFD	
Body fluids and compartmentation		MFD	
Body fluids and compartmentation		MFD	
Neural Communications	7		
Electrochemical potentials across a membrane		NBP	

Electrochemical potentials across a membrane	NBP	**yes**
resting membrane potential	NBP	**yes**
non -propagated potentials	NBP	**yes**
Action potential and propagation	NBP	**yes**
the neuron: types, structure and axoplasmic transport	NBP	**yes**
introduction to peripheral nerves	NBP	**yes**
Principles of intracellular communications	5	
Membrane receptors and first messenger	TNK	
The second messengers- nucleotides cAMP and cGMP	TNK	
The second messengers-IP3, DAG, Ca2+	TNK	
The second messengers- nitric oxide and carbon monoxide	TNK	
Steroids and gene function	TNK	
The synapse	4	
Principles of synaptic transmission	HNK	
chemical transmission	HNK	
Chemical transmission	HNK	
Chemical transmission	HNK	
Autonomic nervous system	4	
The autonomic nervous system - Organization	TNK	
sympathetic nervous system	TNK	
Parasympathetic nervous system	TNK	
intergration -ANS	TNK	
Muscle	5	
Muscle - Physiological organization	FOB	
Muscle - Skeletal muscle Contraction	FOB	
Skeletal muscles - Excitation/Contraction coupling	FOB	
Cardiac muscle	FOB	
smooth muscle	FOB	
Peripheral sensory physiology	5	
Stages of sensory information handling	PGK	
Principles of sensory physiology	PGK	
Principles of sensory physiology	PGK	
processing at sensory receptor	PGK	
conduction and sensory encording	PGK	
Reflex Physiology	3	
The spinal reflex - stretch reflex	ESO	
Inverse stretch reflex	ESO	
Polysynaptic reflexes: withdrawal reflex	ESO	
Blood	6	
Blood - Introduction- composition and transport functions	FNW	
Blood - Physiology of plasma proteins	FNW	
Haemopoiesis and its regulation	FNW	
Leucopoiesis and thrombopoiesis	FNW	
Erythropoiesis and RBC life span	FNW	
Body Iron metabolism, Haem metabolism and catabolism	FNW	
Formed elements	5	

Physiology of formed elements - leucocytes		FNW
Physiology of formed elements - platelets		FNW
Blood clotting and coagulation		FNW
Physiological adjustments to anaemia		FNW
Physiological adjustments to anaemia		FNW
Blood groups, blood transfusion and other practical relevances		FNW
Immune mechanisms	4	
Innate immunity		TKM
Adaptive immunity		TKM
Secretory immunity and autoimmunity		TKM
Immune mechanisms and AIDs		TKM
Cardiovascular system	16	
CVS - general organization and haemodynamics(flow and pressure)		FOB
CVS - General organization- of the heart and systemic circulation		FOB
CVS - Electrical activity and the EKG		FOB
The heart - mechanical activity		FOB
Flow and pressure dynamics in various vessels		FOB
Lymphatic circulation		FOB
Capillary circulation and oedema formation		FOB
Cardiac output and Control of cardiac output		MFD
Cardiovascular control - general principles		MFD
Cardiovascular control - immediate and long term mechanisms		MFD
Cardiovascular control - local and systemic mechanisms		MFD
Integrated responses		MFD
Circulation in special areas (Brain and Liver)		ESO
Cardiovascular homeostasis in exercise		FOB
Cardiovascular shock		ESO
Cardiovascular failure and hypertension		ESO
Respiratory Physiology	17	
RS - Organization		FOB
RS - Gas laws and physical principles		FOB
RS - Ventilation and mechanisms of ventilation		FOB
RS - Volume changes and measurements		FOB
RS - Blood/gas barrier and alveolar function		FOB
RS - Pulmonary circulation		FOB
RS - Ventilation perfusion ratio and methods of measurement		FOB
RS - Gas transport (CO2 & O2) and blood/tissue gas exchange		FOB
RS - Control of respiration (General principles)		MFD
RS - Integrated responses		MFD
RS - Laryngeal physiology		MFD
RS - Space, High altitude and depth physiology		FOB
RS - Space, High altitude and depth physiology		FOB
RS - non-respiratory functions of the lungs (Protective/Endocrine)		ESO
RS - Cardiopulmonary failure		ESO
RS - Extracorporeal circulation		ESO
RS - Life Support - Oxygen therapy and resuscitation		ESO
Renal Physiology	13	
Renal - Organization, evolutional and development		OO
Renal - regulatory mechanisms		OO
Renal - regulation of renal blood flow		OO

Renal - Filtration and clearance		OO
Renal - Proximal tubular function		OO
Renal - the loop of Henle		OO
Renal - distal tubule and collecting ducts		OO
Renal - concentration mechanisms, handling of hydrogen ions and water		ESO
Renal - hormonal functions of the kidney		ESO
Renal -assessment of renal function and renal failure		ESO
Fluid and electrolyte balance		ESO
Fluid therapy		ESO
Renal - pathophysiology: hypertension, dialysis, renal transplants		ESO
INTRODUCTION TO PRACTICALS-EKG	1	FOB
INTRODUCTION TO PRACTICALS-EXERCISE PHYSIOLOGY	1	MWM
INTRODUCTION TO PRACTICALS-RESPIRATION.	1	PGK
INTRODUCTION TO PRACTICALS- ANS FUNCTION	2	TNK
INTRODUCTION TO PRACTICALS- HEARING	2	MFD
INTRODUCTION TO PRACTICALS- VISION	2	HNK
GIT	16	
GIT - general overview		AWM
GIT - General functional organization		AWM
GIT - Principles of control of gut function (neuromyogenic)		AWM
GIT - Principles of control of gut function (humoral)		AWM
Motility		
GIT - Upper GI motility (Mouth and Oesophagus)		AWM
GIT - Upper GI motility (Stomach)		AWM
GIT - Lower GI motility (Biliary and Pancreatic)		AWM
GIT - Lower GI motility (Intestines and Rectum)		AWM
GIT - Secretions of the digestive tract 1		AWM
GIT - Secretions of the digestive tract 2		AWM
Digestion and Absorption		
GIT - Carbohydrate digestion and absorption		AWM
GIT - Protein digestion and absorption		AWM
GIT - Lipids digestion and absorption/ absorption of vitamins		AWM
GIT - Absorption of ions		AWM
GIT - Absorption of water		AWM
GIT - Applied aspects: diarrhoea, hyperalimentation intravenous nutrition		AWM
GIT - Applied aspects: diarrhoea, hyperalimentation intravenous nutrition		AWM
Acid /base balance	3	
Acid /base balance		MFD
Acid /base balance		MFD
Applied aspects of Acid /base balance		MFD
Endocrine system	16	
Overview of endocrine system		MWM
Endocrine - the hypothalamus		MWM
Endocrine - the anterior pituitary		MWM
Endocrine - the intermediate lobe and posterior pituitary		MWM
Endocrine - the intermediate lobe and posterior pituitary		MWM
Endocrine - the thyroid and iodine metabolism		MWM
Endocrine - the thyroid and iodine metabolism		MWM
Endocrine - the parathyroids and Calcium metabolism		OO
Endocrine - vitamin D, calcitonin, Calcium and bone physiology		OO

Endocrine - an overview of steroid hormones		OO
Endocrine - the adrenal cortex: mineralocorticoids		OO
Endocrine - adrenal cortex - glucocorticiods		OO
Endocrine - endocrine pancreas, glucose homeostasis and diabetes mellitu		OO
Endocrine - endocrine pancreas, glucose homeostasis and diabetes mellitu		OO
Metabolism & Skin	4	
Metabolism		OO
Basic nutrition and obesity		OO
Body temperature regulation		TKN
Skin function		TKN
Control of visceral function, appetites and satiety		OO
Reproduction	18	
Reproduction - review of genetics		MWM
Reproduction - reproductive system in utero		MWM
Reproduction - puberty		MWM
Reproduction - the climacteric		MWM
Reproduction - developmental physiology and aging		MWM
Reproduction - male and female gonads		MWM
Reproduction - male reproductive system and gametogenesis		MWM
Reproduction - ovarian function		TKN
Reproduction - female reproductive cycles		TKN
Reproduction - ovulation, fertilization and infertility		TKN
Reproduction - pregnancy :physiological changes diagnosis		TKN
Reproduction - fetal placenta unit		TKN
Reproduction - fetal physiology and parturition		TKM
Reproduction - Fetal adaptations and changes at birth		TKM
Reproduction - Lactation and breast feeding		TKM
Reproduction - hormonal control of lactation		TKM
Reproduction - fertility regulation and contraception 1		TKM
Reproduction - fertility regulation and contraception 2		TKM
SEXUALITY and AIDs		TKM
Sensory Physiology	10	
Sensory Physiology - Spinal mechanisms		PGK
Sensory Physiology - Spinal mechanisms		PGK
Sensory Physiology - Specific spinal modalities		PGK
Sensory Physiology - Cortical mechanisms 1		PGK
Sensory Physiology - Cortical mechanisms 2		PGK
Sensory Physiology - Specific cortical modalities		PGK
Sensory Physiology - Pain introduction		HNK
Sensory Physiology - Pain peripheral mechanisms		HNK
Sensory Physiology - Pain central mechanisms		HNK
Sensory Physiology - principles of analgesia and pain relief		HNK
Special senses		
Special senses - Vision 1	1	HNK
Special senses - vision 2	1	HNK
Special senses - hearing 1	1	MFD
Special senses - hearing 2	1	MFD
Special senses - olfaction	1	AWM
Special senses - taste	1	AWM

Physiology of motor systems	9	
Physiology of motor systems - general organization		NBP
Physiology of motor systems - organization of the spinal motor neuron		NBP
Physiology of motor systems - the spinal reflexes and motor mechanisms		NBP
Physiology of motor systems: brainstem motor mechanisms		NBP
Physiology of motor systems: cortical motor mechanisms		NBP
Physiology of motor systems: basal ganglia and extrapyramidal mechanisı		NBP
Physiology of motor systems: cerebellar mechanisms		NBP
Vestibular function		NBP
Balance		NBP
Higher neural function	6	
Higher neural function - EEG, cerebral frontal lobe function		PGK
Higher neural function - language function, learning and memory		PGK
Higher neural function - motivation and behaviour		PGK
CSF circulation and the Blood Brain Barrier		PGK
Sleep		ESO
Consciousness/GA		ESO
Integrative Physiology		
Fluid and pH Control	1	MFD
Physiological response to injury and inflammation	1	ESO
Physiological changes in aging	1	FOB
Glucose regulation	1	NBP
Fever	1	TKM

Approved: .....
Date: .....

date submitted	Lecturers	hr		
	HNK		11	-8
	FNW		12	-7
	PGK		16	-3
	OO		17	-2
	TKM		17	-2
	AWM		19	0
	ESO		20	1
	MFD		21	2
	TKN		21	2
	MWM		22	3
	NBP		23	4
	FOB		24	5
		18.583333		

MBChB HMP 100
BPharm UPC 103
BDS VMP 100

University of Nairobi
College of Health Sciences
Department of Medical Physiology

Lectures: Millennium Hall II
CATs and Exams: Exam Center

Previous issue date:.....

Approved: .....
Date:.....

Compatibility Report for Copy of MBChB, BPharm Year TWO Schedule 2017-2018 F.xls

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Version

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Chairman - Department of Medical Physiology
Date .....

UNIVERSITY OF NAIROBI
COLLEGE OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL PHYSIOLOGY

Course **YEAR TWO** **14/1/18**
MBChB **FIRST SEMESTER**
BPharm
BDS

University of Nairobi
College of Health Science
Department of Medical Physiology
Lectures, Tutorials & Practicals
2017-2018 Academic year

LECTURES
WED. 2 TO 5 PM
THURS 11:00 to 1 PM
MILLER HALL

PRACTICALS / TUTORIALS
THURSDAY 8:30 to 10:30 AM
FRIDAY 10.00 to 1PM

RESPIRATORY PHYSIOLOGY

WK 1	WED	29-Nov	14:00	15:00	Introduction to Respiration Physiology	M.F. DIN
	WED	29-Nov	15:00	16:00	Respiratory System- Organization	M.F. DIN
	WED	29-Nov	16:00	17:00	Introduction to practicals	KINYUNGU/NZIVO
	THUR	30-Nov	08:30	10:30	PRACTICALS / TUTORIALS	ALL
	THUR	30-Nov	11:00	12:00	RS - Gas laws and physical principles	M.F. DIN
	THUR	30-Nov	12:00	13:00	RS - Ventilation and mechanisms of ventilation	M.F. DIN
	FRI	1-Dec	10:00	13:00	PRACTICALS / TUTORIALS	ALL
WK 2	WED	6-Dec	14:00	15:00	INTRODUCTION TO HEARING PRACTICAL	M.F. DIN
	WED	6-Dec	15:00	16:00	RS - Volume changes and measurements	K.THAIRU
	WED	6-Dec	16:00	17:00	RS - Volume changes and measurements	K.THAIRU
	THUR	7-Dec	08:30	10:30	PRACTICALS	ALL
	THUR	7-Dec	11:00	12:00	INTRODUCTION TO RESPIRATION PRACTICAL	K. THAIRU
	THUR	7-Dec	12:00	13:00	RS - Blood/gas barrier and alveolar function	K.THAIRU
	FRI	**8-Dec**	**10:00**	**13:00**	**PRACTICALS**	KINYUNGU/NZIVO
WK 3	WED	13-Dec	14:00	15:00	INTRODUCTION TO PNS PRACTICAL	A.W.MURIITHI/P.M. M
	WED	13-Dec	15:00	16:00	INTRODUCTION TO PNS PRACTICAL	A.W.MURIITHI/P.M. M
	WED	13-Dec	16:00	17;00	INTRODUCTION TO VISION PRACTICAL	T.K.MWENDWA
	THUR	14-Dec	08:30	10:30	PRACTICALS	ALL
	THUR	14-Dec	11:00	12:00	RS - Pulmonary circulation	M.F. DIN
	THUR	14-Dec	12:00	13:00	RS - Ventilation perfusion ratio and methods of m	M.F. DIN
	FRI	15-Dec	10:00	13:00	PRACTICALS	ALL
WK 4	WED	20-Dec	14:00	15:00	RS - Laryngeal physiology	M.F. DIN
	WED	20-Dec	15:00	16:00	RS - Gas transport (CO2 & O2) and blood/tissue g	M.F. DIN
	WED	20-Dec	16:00	17-:0(	RS - Control of respiration (General principles)	M.F. DIN

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	THUR	21-Dec	08:30	10:30 PRACTICALS	ALL
	THUR	21-Dec	11:00	12:00 RS - Integrated responses	M.F. DIN
	THUR	21-Dec	12:00	13:00 RS - Space, High altitude and depth physiology	F.O.BUKACHI
	FRI	22-Dec	10:00	13:00 PRACTICALS	

CHRISTMAS BREAK

WK 5	WED	10-Jan	14:00	15:00 RS - Gas transport (CO2 & O2) and blood/tissue g	M.F. DIN
	WED		15:00	16:00 RS - Laryngeal physiology	M.F. DIN
	WED		16:00	17:00 RS - Control of respiration (General principles)	M.F. DIN
	THUR	11-Jan	08:30	10:30 PRACTICALS	ALL
	THUR		11:00	12:00 REMEDIAL	E.S.OTIENO
	THUR		12:00	13:00 REMEDIAL	E.S.OTIENO
	FRI	12-Jan	10:00	13:00 PRACTICALS	ALL
WK 6	WED	17-Jan	14:00	15:00 RS - non-respiratory functions of the lungs (Prote	E.S.OTIENO
	WED		15:00	16:00 RS - Cardiopulmonary failure	E.S.OTIENO
	WED		16:00	17:00 Extracorporeal circulation and life support	E.S.OTIENO
	THUR	18-Jan	08:30	10:30 self study	all
	THUR		11:00	12:00 RS - Oxygen therapy and resuscitation	E.S.OTIENO
	THUR		12:00	13:00 RS - Oxygen therapy and resuscitation	E.S.OTIENO
	FRI	19-Jan	10:00	13:00 self study	ALL

Renal Physiology

WK 7	WED	24-Jan	14:00	15:00 Renal function - Overview	O. OKONGO
	WED		15:00	16:00 Renal - Organization, evolutional and developmer	O. OKONGO
	WED		16:00	17:00 Renal - regulatory mechanisms / renal blood flow	O. OKONGO
	THUR	25-Jan	08:30	10:30 self study	ALL
	THUR		11:00	12:00 Renal - Filtration and clearance	O. OKONGO
	THUR		12:00	13:00 Renal - Proximal tubular function /	O. OKONGO
	FRI	26-Jan	10:00	13:00 self study	ALL
WK 8	WED	31-Jan	14:00	15:00 loop of Henle	E.S. OTIENO
	WED		15:00	16:00 Renal - distal tubule and collecting ducts	E. S. OTIENO
	WED		16:00	17:00 Renal - concentration mechanisms, handling of h	E. S. OTIENO
	THUR	1-Feb	08:30	10:30 PRACTICALS	ALL
	THUR		11:00	12:00 Micturition and bladder function	E. S. OTIENO
	THUR		12:00	13:00 Renal - hormonal functions of the kidney	E. S. OTIENO
	FRI	2-Feb	10:00	13:00 PRACTICALS	ALL
WK 9	**MON**		**08:30**	**11:00 EXAM MODERATION/ (Led by exam committee)**	**ALLSTAFF**
	WED	7-Feb	14:00	15:00 Fluid and electrolyte balance	E. S. OTIENO
	WED		15:00	16:00 Fluid and electrolyte balance	E. S. OTIENO
	WED		16:00	17:00 Fluid therapy	E. S. OTIENO
	THUR	8-Feb	08:30	10:30 PRACTICALS	ALL
	THUR		11:00	12:00 Renal failure, dialysis, renal transplants	E. S. OTIENO

	THUR		12:00	13:00 Renal failure, dialysis, renal transplants	E. S. OTIENO
	FRI	9-Feb	10:00	13:00 PRACTICALS	ALL
				GASTROINTESTINAL TRACT	
WK 10					
	WED	14-Feb	14:00	15:00 GIT - General functional organization	A.W.MURIITHI
	WED		15:00	16:00 GIT - Principles of control of gut function (neuron	A.W.MURIITHI
	WED		16:00	17:00 GIT - Principles of control of gut function (humora	A.W.MURIITHI
	THUR	15-Feb	08:30	10:30 PRACTICALS	ALL
	THUR		11:00	12:00 GIT - Hepatic portal circulation	A.W.MURIITHI
	THUR		12:00	13:00 GIT - Upper GI motility (Mouth and Oesophagus)	A.W.MURIITHI
	FRI	**16-Feb**	10:00	13:00 **MID-SEMMESTER CAT (60 MCQS- 1HOUR 30 MIN)**	**EXAMS OFFICER**
WK11	WED	21-Feb	14:00	15:00 GIT - Upper GI motility (Stomach)	A.W.MURIITHI
	WED		15:00	16:00 GIT - Lower GI motility (Biliary and Pancreatic)	A.W.MURIITHI
	WED		16:00	17:00 GIT - Lower GI motility (Intestines and Rectum)	A.W.MURIITHI
	THUR	22-Feb	08:30	10:30 PRACTICALS	ALL
	THUR		11:00	12:00 Secretions of the digestive tract 1	P.M.MBUGUA
	THUR		12:00	13:00 Secretions of the digestive tract 2	P.M.MBUGUA
	FRI	23-Feb	10:00	13:00 PRACTICALS	ALL
				Digestion and Absorption	
WK12	WED	28-Feb	15:00	16:00 Digestion and Absorption - General	P.M.MBUGUA
	WED		16:00	17:00 GIT - Carbohydrate digestion and absorption	P.M.MBUGUA
	WED		16:00	17:00 GIT - Carbohydrate digestion and absorption	P.M.MBUGUA
	THUR	1-Mar	08:30	10:30 PRACTICALS	ALL
	THUR		11:00	13:00 GIT - Protein digestion and absorption	P.M.MBUGUA
	FRI	2-Mar	10:00	13:00 PRACTICALS	ALL
WK 13	WED	7-Mar	15:00	16:00 GIT - Lipids digestion and absorption	P.M.MBUGUA
	WED		16:00	17:00 GIT - Lipids digestion and absorption	P.M.MBUGUA
	WED		16:00	17:00 GIT - Absorption of vitamins /Absorption of ions	P.M.MBUGUA
	THUR	8-Mar	08:30	10:30 PRACTICALS	ALL
	THUR		11:00	13:00 GIT - Absorption of water /diarrhoea - physiologic	P.M.MBUGUA
	FRI	9-Mar	10:00	13:00 PRACTICALS	ALL
WK 14	WED	14-Mar	15:00	16:00 GIT - diarrhoea, intraveneous nutrition and hypera	P.M.MBUGUA
	WED		16:00	17:00 GIT - diarrhoea, intraveneous nutrition and hypera	P.M.MBUGUA
	WED		16:00	17:00 Acid /base balance	M.F.DIN
	THUR	15-Mar	08:30	10:30 PRACTICALS	ALL
	THUR		11:00	13:00 Applied aspects of Acid /base balance	M.F.DIN
	FRI	16-Mar	10:00	13:00 PRACTICALS	ALL
WK 15	WED	21-Mar	15:00	16:00 GIT - Splanchnic Flow and liver function	P.M.MBUGUA
	WED		16:00	17:00 GIT - Hepatobilliary and enterohepatic circulation	P.M.MBUGUA
	WED		16:00	17:00 GIT - Hepatobilliary and enterohepatic circulation	P.M.MBUGUA
	THUR	22-Mar	08:30	10:30 SELF STUDY	ALL

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	THUR		11:00	13:00	SELF STUDY	
	FRI	23-Mar	10:00	13:00	PRACTICALS	ALL
WK16	WED	28-Mar	15:00	16:00	NUTRITION - Hypothalamus and appetite regulati	M.W.MURIITHI
	WED		16:00	17:00	NUTRITION - Hypothalamus and control of thirst	M.W.MURIITHI
	WED		16:00	17:00	NUTRITION - Protein balance and osmotic pressu	M.W.MURIITHI
	THUR	29-Mar	08:30	10:30	PRACTICALS	ALL
	THUR		11:00	13:00	NUTRITION - metabolic aspects	T.K.MWENDWA
	FRI	30-Mar	10:00	13:00	PRACTICALS	ALL
WK 17	TUES	3-Apr	08:30	11:00	EXAM QUESTIONS MODERATION(led by exam com	ALL STAFF
	WED	4-Apr	15:00	16:00	REVISION WEEK	ALL
	WED		16:00	17:00	REVISION WEEK	ALL
	WED		16:00	17:00	REVISION WEEK	ALL
	THUR	5-Apr	08:30	10:30	REVISION WEEK	ALL
	THUR		11:00	13:00	REVISION WEEK	ALL
	FRI	6-Apr	08:30	10:00	REVISION WEEK	ALL
	FRI		10:00	13:00	REVISION WEEK	ALL
WK 18	WED		08:30	13:00	END OF FIRST SEMESTER EXAMINATIONS	ALL

EXAM WEEK

END OF FIRST SEMESTER

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