

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



**YEAR TWO  
 FIRST SEMESTER**

Course  
 MBChB  
 BPharm  
 BDS

21/4/18  
 University of Nairobi  
 College of Health Science  
 Department of Medical Physiology  
 Lectures, Tutorials & Practicals  
 2017-2018 Academic year

**LECTURES**  
 WEDNESDAY 2 TO 5 PM  
 THURSDAY 11:00 to 1 PM  
 MILLENNIUM II 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
	WED	29-Nov	15:00	16:00	Respiratory System- Organization
	WED	29-Nov	16:00	17:00	Introduction to practicals
	THUR	30-Nov	8:30	10:30	PRACTICALS / TUTORIALS
	THUR	30-Nov	11:00	12:00	RS - Gas laws and physical principles
	THUR	30-Nov	12:00	13:00	RS - Ventilation and mechanisms of ventilation
	FRIDAY	1-Dec	10:00	13:00	PRACTICALS / TUTORIALS
	WED	6-Dec	14:00	15:00	INTRODUCTION TO HEARING PRACTICAL
	WED	6-Dec	15:00	16:00	RS - Volume changes and measurements
	WED	6-Dec	16:00	17:00	RS - Volume changes and measurements
	THUR	7-Dec	8:30	10:30	PRACTICALS
	THUR	7-Dec	11:00	12:00	INTRODUCTION TO RESPIRATION PRACTICAL
	THUR	7-Dec	12:00	13:00	RS - Blood/gas barrier and alveolar function
	FRIDAY	8-Dec	10:00	13:00	PRACTICALS
WK 2	WED	6-Dec	14:00	15:00	INTRODUCTION TO PNS PRACTICAL
	WED	6-Dec	15:00	16:00	RS - Volume changes and measurements
	WED	6-Dec	16:00	17:00	RS - Volume changes and measurements
	THUR	7-Dec	8:30	10:30	PRACTICALS
	THUR	7-Dec	11:00	12:00	INTRODUCTION TO RESPIRATION PRACTICAL
	THUR	7-Dec	12:00	13:00	RS - Blood/gas barrier and alveolar function
	FRIDAY	8-Dec	10:00	13:00	PRACTICALS
WK 3	WEDNESDAY	13-Dec	14:00	15:00	INTRODUCTION TO PNS PRACTICAL
	WEDNESDAY	13-Dec	15:00	16:00	INTRODUCTION TO PNS PRACTICAL

M.F. DIN  
 M.F. DIN  
 KINYUNGUNZIVO  
 ALL  
 M.F. DIN  
 M.F. DIN  
 M.F. DIN  
 ALL  
 M.F. DIN  
 K.THAIRU  
 K.THAIRU  
 ALL  
 K. THAIRU  
 K. THAIRU  
 KINYUNGUNZIVO  
 A.W.MURITHI/P. M. MBUGUA  
 A.W.MURITHI/P. M. MBUGUA

Previous issue date:.....

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WEDNESDAY 13-Dec 16:00 17:00 INTRODUCTION TO VISION PRACTICAL T.K.MWENDWA  
 THURSDAY 14-Dec 8:30 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 (CO<sub>2</sub> & O<sub>2</sub>) 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 8:30 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 (CO<sub>2</sub> & O<sub>2</sub>) 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 8:30 10:30 PRACTICALS ALL  
 THURSDAY 11:00 12:00 REMEDIAL  
 THURSDAY 12:00 13:00 REMEDIAL  
 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 8:30 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. OKONGO  
 WEDNESDAY 15:00 16:00 Renal - Organization, evolutionary and development O. OKONGO  
 WEDNESDAY 16:00 17:00 Renal - regulatory mechanisms / renal blood flow O. OKONGO  
 THURSDAY 25-Jan 8:30 10:30 self study ALL

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THURSDAY	11:00	12:00	Renal - Filtration and clearance	O. OKONGO	
THURSDAY	12:00	13:00	Renal - Proximal tubular function /	O. OKONGO	
FRIDAY	26-Jan	10:00	13:00	self study	ALL

<b>WK 8</b>	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	8:30	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

<b>WK 9</b>	<b>MONDAY</b>		8:30	11:00	<b>EXAM MODERATION/ (Led by exam committee)</b>	<b>ALLSTAFF</b>
	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	8:30	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**

<b>WK 10</b>	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	8:30	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	<b>MID-SEMESTER CAT (60 MCQS- 1HOUR 30 MIN)</b>	<b>EXAMS OFFICER</b>

<b>WK11</b>	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	8:30	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

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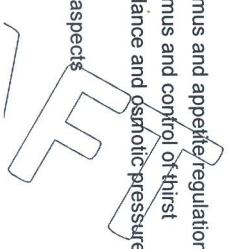
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WK	Day	Time	Topic	Lecturer
WK12	FRIDAY	23-Feb 10:00 - 13:00	PRACTICALS	ALL
	<b>Digestion and Absorption</b>			
	WEDNESDAY	28-Feb 15:00 - 16:00	Digestion and Absorption - General	P.M.MBUGUA
	WEDNESDAY	16:00 - 17:00	GIT - Carbohydrate digestion and absorption	P.M.MBUGUA
	WEDNESDAY	16:00 - 17:00	GIT - Carbohydrate digestion and absorption	P.M.MBUGUA
WK13	THURSDAY	1-Mar 8:30 - 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
	<b>BREAK BREAK</b>			
	WEDNESDAY	2-May 15:00 - 16:00	GIT - Lipids digestion and absorption	P.M.MBUGUA
WK14	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	3-May 8:30 - 10:30	PRACTICALS	ALL
	THURSDAY	11:00 - 13:00	GIT - Absorption of water /diarrhoea - physiological effects	P.M.MBUGUA
	FRIDAY	4-May 10:00 - 13:00	PRACTICALS	ALL
WK 15	WEDNESDAY	9-May 15:00 - 16:00	GIT - diarrhoea, intravenous nutrition and hyperalimmentation	P.M.MBUGUA
	WEDNESDAY	16:00 - 17:00	GIT - diarrhoea, intravenous nutrition and hyperalimmentation	P.M.MBUGUA
	WEDNESDAY	16:00 - 17:00	Acid /base balance	M.F.DIN
	THURSDAY	10-May 8:30 - 10:30	PRACTICALS	ALL
	THURSDAY	11:00 - 13:00	Applied aspects of Acid /base balance	M.F.DIN
WK 16	FRIDAY	11-May 10:00 - 13:00	PRACTICALS	ALL
	WEDNESDAY	16-May 15:00 - 16:00	GIT - Splanchnic Flow and liver function	P.M.MBUGUA
	WEDNESDAY	16:00 - 17:00	GIT - Hepatobiliary and enterohepatic circulation of bile	P.M.MBUGUA
	WEDNESDAY	16:00 - 17:00	GIT - Hepatobiliary and enterohepatic circulation of bile	P.M.MBUGUA
	THURSDAY	17-May 8:30 - 10:30	SELF STUDY	ALL
WK16	THURSDAY	11:00 - 13:00	SELF STUDY	ALL
	FRIDAY	18-May 10:00 - 13:00	PRACTICALS	ALL
	WEDNESDAY	23-May 15:00 - 16:00	NUTRITION - Hypothalamus and appetite regulation	M.W.MURITHI
	WEDNESDAY	16:00 - 17:00	NUTRITION - Hypothalamus and control of thirst	M.W.MURITHI
	WEDNESDAY	16:00 - 17:00	NUTRITION - Protein balance and osmotic pressure	M.W.MURITHI
WK16	THURSDAY	24-May 8:30 - 10:30	PRACTICALS	ALL
	THURSDAY	11:00 - 13:00	NUTRITION - metabolic aspects	T.K.MWENDWA
	FRIDAY	25-May 10:00 - 13:00	PRACTICALS	ALL



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WK 17	TUESDAY	3-Apr 8:30	11:00	EXAM QUESTIONS MODERATION (led by exam committee)	ALL STAFF
	WEDNESDAY	30-May 15:00	16:00	REVISION WEEK	ALL
	WEDNESDAY	16:00	17:00	REVISION WEEK	ALL
	WEDNESDAY	16:00	17:00	REVISION WEEK	ALL
	THURSDAY	31-May 8:30	10:30	REVISION WEEK	ALL
	THURSDAY	11:00	13:00	REVISION WEEK	ALL
	FRIDAY	1-Jun 8:30	10:00	REVISION WEEK	ALL
	FRIDAY	10:00	13:00	REVISION WEEK	ALL
WK 18	WEDNESDAY	6-Jun 8:30	13:00	END OF FIRST SEMESTER EXAMINATIONS EXAM WEEK	ALL
				END OF FIRST SEMESTER EXAM WEEK	



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