NATIONAL POSTGRADUATE MEDICAL COLLEGE OF NIGERIA

FACULTY OF INTERNAL MEDICINE



FELLOWSHIP PROGRAMME 2016

CURRICULUM FOR THE JUNIOR RESIDENCY TRAINING

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1.0 INTRODUCTION

The National Postgraduate Medical College of Nigeria started as a fellowship programme in 1970 under the Nigerian Medical Council. This transmutated in 1979 through the promulgation of Decree 67, establishing the National Postgraduate Medical College of Nigeria (NPMCN). This was the premier medical academic cum professional programme in sub-Saharan Africa. The programme is unique in combining academic and professional training in medical postgraduate courses. The programme in Medicine was termed a Fellowship in Physic. The acronym, FMCP (Fellow of Medical College in Physic) has remained.

1.1 Authority

Decree 67 of 1979 setting up the Postgraduate Medical College empowers faculties to conduct Examinations and certify candidates to be holders of the FMCP under the direction of the College. Section 106 of the decree 67 stipulates that a candidate offering himself or herself for the series of Examinations for the fellowship of the Faculty shall satisfy the Faculty board, that he/she is in possession of and is therein named as a holder of a certificate from an institution recognized by the College showing that he/she has satisfactorily attended the prescribed period.

1.2 Vision and Mission of the College

Vision statement

The National Postgraduate Medical College of Nigeria aims to produce medical and dental specialists of the highest standards who will provide world class services in teaching research and health care.

Mission statement

The mission of the college is to plan, implement, monitor and evaluate postgraduate programmes required to produce medical and dental specialists of the highest quality, competence and dedication who will provide teaching and optimal healthcare for the people. Lifelong learning will be maintained by continuing professional development programmes of the college.

1.3 Vision Statement of the Faculty

The Faculty of Internal Medicine of the National Postgraduate Medical College of Nigeria aims to produce physicians of the highest standards in the various subspecialties who will provide world class services in teaching, research and health care.

1.4 Philosophy of the Fellowship Programme in Internal Medicine

The Faculty of Internal Medicine recognizes the universality of Medicine and the need for lifelong learning for practicing Physicians. Therefore physicians certified by the Faculty must be adequate in knowledge, skills and attitude to practice Medicine in Nigeria and be able to adapt to practice anywhere in the world and be of good character. In addition, the certified specialist Internist should possess management skills to lead the health team, offer humane and ethical clinical services. In addition he/she should be able to assume other higher administrative and leadership responsibilities/roles.

1.5 Objectives of the Training Programme

- 1. To train physicians capable of integrating clinical practice with effective teaching and basic clinical research.
- 2. To educate and mentor physicians to maintain their commitment to the profession.
- 3. To train physicians to be committed to innovations and research, ethical conduct, lifelong learning and professionalism including evidence based and telemedicine
- 4. To equip the physicians with knowledge and skills to prepare them for higher roles in medical practice, training and administration.
- 5. To train physicians who will be able to exhibit appropriate communication skills and attitudes in relating to members of the health team and patients/relatives.

1.6 Structure and Mode of Instruction

This is a staggered, supervised training of minimum of 6 years, leading to the primary, Part I and Part II (final) FMCP examinations.

Mode of instructions consists of lectures, tutorials, seminar presentations, skills acquisition (ward/grand rounds, clinics and clinical drills), case presentation, update courses and dissertation driven by strong mentorship.

1.7 Training Centers

Training is undertaken in an accredited institution, the updated list of which is available from the college web site (www.npmcn.edu.ng).

1.8 Admission Requirements

To be admitted into the programme, the applicant must have passed or be exempted from the primary examination of the National Postgraduate Medical College of Nigeria in Internal Medicine and be employed/affiliated with an accredited institution.

1.9 Registration as Associate Fellow

The trainee is required to register as an associate fellow after passing or exemption from the primary FMCP examination and has secured a placement in an accredited training centre.

2.0 JUNIOR RESIDENCY FOR THE FMCP

2.1 Introduction

Junior Residency is a critical stage of the FMCP Programme. At this stage the trainee physician is prepared to take on the calling and philosophy of an internist. This period must be spent in accredited training institutions which offer a variety of subspecialist services in a number of disciplines both in internal medicine and related specialties.

Successful completion and certification qualifies the candidate to progress to senior residency position in a subspecialty or general internal medicine.

2.2 Goals, Objectives and Outcome of Junior Residency

2.2.1 Goals

The FCMP Junior Residency programme aims to ensure that

- 1. The trainee physician acquires adequate knowledge, skills, attitudes and behavior essential for the practice of internal medicine.
- 2. The trainee physician is prepared for lifelong learning, research, and evidence based medical practice.
- 3. The trainee physician acquires teaching skills

2.2.2 Objectives

At the end of the junior residency, the trainee is expected

- 1. To demonstrate competence in the diagnosis of prevalent and important medical conditions.
- 2. To initiate and monitor rational pharmacologic and non-pharmacologic treatment.
- 3. To demonstrate competence in resuscitation and management of critically ill patients and acute medical emergencies.
- 4. To demonstrate knowledge, skills, attitudes and conduct appropriate for the level of training in patient management.
- 5. To audit all aspects of patient care, and apply the outcome in maintaining standards and improving quality of care.
- 6. To communicate effectively with patients, patients' relations, colleagues, other health personnel, hospital authorities and the general public.
- 7. To demonstrate the ability to effectively impart the skills and knowledge acquired to other doctors, medical students, and allied health professionals.
- 8. To educate patients, their caregivers and the community on holistic health care.
- 9. To demonstrate effective leadership and management skills.
- 10. To demonstrate appropriate level of competence in medical writing and appraisal of medical literature.

2.3 Training Format of Junior Residency (See also summery of rotations under appendix III)

The Junior Residency training programme shall last a minimum of 24 months exclusive of leave periods. During this period, the resident shall spend a minimum of three months each in any 6 of the following subspecialties (Totaling 18 months):

- 1. Cardiology
- 2. Endocrinology, Diabetes and Metabolism
- 3. Dermatology and Genitourinary medicine
- 4. Gastroenterology
- 5. Nephrology
- 6. Neurology
- 7. Respiratory Medicine

2.3.1 Elective Posting

The resident is expected to spend one month in any of the following specialties

- 1. Clinical Haematology/Medical Oncology
- 2. Infectious disease/HIV Medicine
- 3. Clinical Pharmacology & Therapeutics
- 4. Critical Care/Intensive care medicine
- 5. Rheumatology
- 6. Geriatric medicine

2.3.2 Mandatory Posting

1. Accident and Emergency medicine.

Residents are expected to spend One month in the accident and emergency.

This is WITHOUT PREJUDICE to the calls they are expected to take THROUGHOUT the residency training.

2.3.3 Postings in Allied Disciplines

During the 24 month training period, the trainee shall have a four-month compulsory rotation in other departments relevant to the practice of internal medicine as follows:

- a. Radiology one month during which the candidate would interpret plain films and participate in contrast studies and other imaging techniques relevant to the discipline.
- b. Psychiatry one month during which the candidate shall be exposed to recognition and management of acute Psychosis, organic brain syndrome, psychosomatic illnesses, psychiatric manifestation of systemic diseases and other psychiatric conditions relevant to the practice of medicine.
- c. Laboratory medicine two months divided into two weeks each in the departments of:
 - i. Haematology and Blood transfusion
 - ii. Chemical Pathology
 - iii. Microbiology and Parasitology and

iv. Pathology (Morbid Anatomy)

2.3.4 Procedures and Case Report

While doing the subspecialties rotations, the trainee should perform/ participate in the procedures prescribed in section 2 of this curriculum and the log book, for which he/she should be signed up by the Consultants in the subspecialty. The trainee is expected to have performed/participated in the minimum number prescribed for each procedure at the end of the training period and before presenting himself or herself for the part I examination.

During each subspecialty rotation, the trainee should write-up and present three (3) case reports (with brief literature review) and be graded and signed up by the consultant-in-charge of the patient. This is in any 6 of the subspecialties listed in Section 2.3 above.

During Laboratory Medicine rotation, the trainee shall participate in laboratory procedures relevant to Internal Medicine and have an in-depth understanding of the interpretation of the results and common errors of determination. The candidates should be signed up by the supervising consultant.

2.4 Syllabus for Junior Residency and Course credit weighting

The syllabus for this part covers all diseases in all sub-specialties of internal medicine. It is expected that candidates must be proficient in the performance of specialty-oriented skills and procedures listed and be signed up for these in the logbook, (obtainable from the Faculty Secretary or College Registrar). The topics covered in standard postgraduate medical textbooks in Internal medicine as well as standard texts in tropical medicine are recommended for comprehensive coverage. This should be supplemented by sources of current updates.

The Tables of Contents arranged by sub-specialties provide the details with regards to contact hours, percentage coverage of course content, learning objectives, credit units and modes of delivery. The levels of competence desired are divided into three:

Level I is mainly knowledge Level II involves comprehension and application of knowledge Level III is a combination of analysis, synthesis and evaluation.

This syllabus is weighted in accordance with standard definition of credit units for the college of medicine - details as shown in appendix III. The trainee is expected to acquire a minimum of 167 credit units in the 24 months period of junior residency.

2.4.1 General Knowledge and Skills:

- Good medical practice and clinical care including history and physical examination.
- Effective communication with patients, relations, colleagues, public, etc.
- Care of the terminally ill.

2.4.2 Attitudes and conduct – this requires good mentorship at all levels of training.

- Professional, ethical confidentiality and medical-legal and other related issues involved in teaching, training, self/long-term learning and research.
- Acquisition of leadership skills, effective time management, admissions and discharges
- Learn to work with peers, seniors, juniors and other cadres of staff.
- Proper carriage, comportment and descent/ respectable dressing.

2.4.3 Clinical Cardiology

Title/Theme/Domain	Specific Topics (knowledge, skills &	% Course	Lesson	Total	Mode of	Mode of
	attitude)	coverage	Objectives	Credit(s)	Delivery Code	assessment
Basic concepts in	Cardiovascular embryology,	15%	Level 3	3	1, 2, 3 & 6	MCQ, SAQ
cardiology	anatomy, physiology,					
	pathophysiology, pathology and					
Evaluation of	pharmacology 1. Clinical assessment – detailed	20%	Level 3	4	1,2,3,4,5&6	OSCE
cardiovascular structure	cardiovascular history and physical	20%	Level 3	4	1,2,3,4,300	MCQ
and function	examination.					SAQ
	Non-invasive cardiovascular					Essay
	evaluation:					Log book
	- simple bedside evaluation		Level 3			
	- electrocardiography (resting)					
	- ambulatory BP monitoring					
	- chest radiography					
	- electrocardiography (stress and		Level 2			
	ambulatory)					
	introduction to echocardiography		Level 2			
	chest/cardiac CT		1 1 2			
	3. Others:		Level 3			
	- fluid management including CVP insertion and monitoring, acid and					
	electrolyte imbalance, oxygen					
	transportation					
Clinical modules	Hypertension and target organ	35%	Level 3	7	1,2,3,4,5,6	OSCE
	damage including hypertensive				& 7	MCQ
	heart disease					SAQ
	2. Risk factors for cardiovascular		Level 3			Mini-CEX
	diseases					Clinical
	3. Heart failure		Level 2			presentation
	4. Valvular heart disease		Level 2			
	5. Heart muscle disease		Level 2			
	6. Congenital heart disease		Level 2			
	7. Ischemic heart disease		Level 2			
	8. Pericardial disorders		Level 2			
	Pulmonary heart disease 10.Infective endocarditis		Level 2 Level 2			
	11. Rhythm and conduction		Level 2			
	abnormalities		Level 2			
	12. Peripheral vascular disorders		Level 2			
	13. Cardiac tumors		Level 2			
	14. Diseases of great vessels		Level 2			
	15.Thromboembolic disorders		Level 2			
	16. Preventive cardiology		Level 3			
Cardiovascular	Diuretics, anti-arrhythmic drugs,	10%	Level 3	2	2, 3, 4, 5, 6	MCQ
pharmacology and	antihypertensive drugs,				& 7	
therapeutics	sympathomimetics, cardiac					OSCE
	glycosides, anti-failure drugs,					
	coronary vasodilators,					SAQ
	anticoagulants, anti-platelets,					
	fibrinolytic agents, lipid regulating					
	agents					

Cardiovascular	Cardio-pulmonary resuscitation	20%	Level 3	4	1,2,3, 4, 5,	OSCE
emergencies	('ABCD'), shock – cardiogenic shock and circulatory collapse, acute pulmonary oedema, cardiac tamponade, malignant arrhythmias, hypertensive	2070	20.0.0	·	6, & 7	MCQ Essay
	emergencies, dissecting aneurysms, myocardial infarction, pulmonary embolism					Clinical Presentation

Mode of delivery code: Lectures (1), Tutorials (2), Seminars (3), Clinicals/practicals (4), Self-directed learning (5), Assignments (6), Conferences (7)

2.4.4 ENDOCRINOLOGY, DIABETES AND METABOLISM

THEME	SPECIFIC TOPICS, KNOWLEDGE, ATTITUDES, AND SKILLS	% OF COURSE	LEARNING OBJECTIVES USING TAXONOMY	MODE OF DELIVERY	METHOD OF ASSESSMENT	TOTAL CREDITS UNITS
DOMAIN: 1. ENDO		T	FORM/S	SUM	1	1
BASIC CONCEPT	Basic medical scientific aspects of endocrinology Knowledge: • Ability to describe anatomy and physiology of the HPAxis, • Mechanism of action of peptide and steroid hormones. • To describe negative feedback mechanism, diurnal rhythms • Compare the basic dynamic endocrine tests		Level 1& 2	Lect Tutorial Sem Self-directed learning; bedside teach	CBD MCEX DOPS Mcqs Essays Assignm Log book OSCE	1
ENDOCRINE GLANDS	I S AND ENDOCRINOPATHIES					
DISORDERS OF THE HYPOTHALAMUS AND PITUITARY DISORDERS	Acromegaly Short stature Hyperprolactinemia Hypopituitarism Diabetes Insipidus Knowledge: Ability to • Describe Clinical features of the above disorders • The discuss Pathophysiology • Discuss Differential diagnosis • List types of Laboratory tests • Ability to interpret lab diagnosis • Ability to make a diagnosis • Discuss the treatment Skills • To take anthropometric measurements • To perform visual field assessment clinically • To request the appropriate investigation for each of the disease		Level 1,2,3		CBD MCEX DOPS Mcqs Essays Assignm Log book OSCE	1

	Ability to interpret the				
	CT of the skull To demonstrate the				
	physical signs of the				
	listed disorders				
	Attitudes: • Need to recognize the				
	multidisciplinary				
	approach to				
	management and when to refer				
THYROID	Basic : Ability to describe	LEVEL 1,2,3		CBD	
DISORDERS	anatomy of the thyroid	11,2,3		MCEX	3
	gland			DOPS	
				Mcqs Essays	
	Discuss the regulation of the HPT axis (Thyroid			Assignm	
	function)			Log book	
	·			OSCE	
	Biosynthesis of thyroid				
	hormone				
	Disorders of physiology				
	and biochemistry of				
	thyroid hormones and				
	TSH and lodine				
	metabolism				
	Knowledge				
	List types of thyroid				
	hormone				
	Describe thyroid				
	hormone synthesis				
	including iodine				
	metabolism				
	Thyrotoxicosis				
	Hypothyroidism				
	Thyroiditis Thyroid cancers				
	Knowledge:				
	• List the disorders of				
	the thyroid gland • Ability to list S&S of				
	the thyroid disorders				
	above				
	 List types of tests for evaluating thyroid 				
	disease				
	To interpret TFT				
	Compare and contrast				
	thyrotoxicosis due to Graves' disease and				
	Graves disease and		I		

	· · · · · · · · · · · · · · · · · · ·		ı		
	Toxic Nodular goitre				
	Ability to make a				
	diagnosis of the above				
	thyroid disorders				
	 To describe the 				
	radioiodine process				
	and interpret the				
	results				
	 Discuss the effect of 				
	pregnancy on thyroid				
	function and their				
	interpretation				
	Skills:				
	 To request the 				
	appropriate TFT in a				
	given patient				
	To demonstrate the				
	physical signs of the				
	listed disorders				
	Ability to manage the				
	above conditions				
	Attitude				
	To recognize when to				
	refer the above				
	conditions				
	Ability to recognize the				
	duration of treatment				
	Recognize the need to				
	monitor				
	Recognize the need to				
ADDENIAL CLAND	report to seniors	LEVEL 1, 2,3		CBD	
ADRENAL GLAND DISODERS	Basic : Ability to describe	LEVEL 1, 2,5		MCEX	2
DISODERS	anatomy physiology of the			DOPS	2
	adrenal gland				
				Mcqs	
	Discuss the regulation of			Essays	
	the HPA axis			Assignm	
				Log book	
	Describe the Biosynthesis			OSCE	
	of corticosteroids				
	hormone				
	Disorders of physiology				
	and biochemistry of				
	Adrenal disorders				
	including regulation of Na				
			1		
	and K				
	Cushing's disease				
	Cushing's disease Conn syndrome				
	Cushing's disease Conn syndrome CAH				
	Cushing's disease Conn syndrome CAH Adrenocortical failure				
	Cushing's disease Conn syndrome CAH Adrenocortical failure Pheochromocytoma				
	Cushing's disease Conn syndrome CAH Adrenocortical failure Pheochromocytoma Electrolyte imbalance				
	Cushing's disease Conn syndrome CAH Adrenocortical failure Pheochromocytoma Electrolyte imbalance Knowledge				
	Cushing's disease Conn syndrome CAH Adrenocortical failure Pheochromocytoma Electrolyte imbalance				

	including urinary				
	metabolites				
	Describe the test for				
	evaluation of				
	adrenocortical and				
	adreno medulla disorder				
	Discuss the endocrine				
	hypertensionDiscuss and interpret				
	the procedure of				
	basal and dynamic test				
	in the evaluation of				
	the above conditions				
	Skills				
	 To request the 	1			
	appropriate tests in a				
	given patient				
	 To demonstrate the 				
	physical signs of the				
	listed disorders				
	 To be able to 				
	distinguish simple				
	obesity from Cushing's				
	syndrome				
	Ability to manage the				
	above conditions				
	 To perform and interpret 				
	Dexamethasone				
	suppression and ACTH				
	stimulation test				
	 Ability to diagnose and 				
	manage				
	Attitudes				
	 Recognize need to 				
	report to seniors				
	 Ability to recognize the 				
	duration of treatment				
	 Recognize the need to 				
	monitor treatment				
	 Recognize the need to 				
	teach patients life-				
	saving skills	1			
	Ability to deliver				
	patient education				
BONE AND	Basic: Ability to describe	 	LEVEL 1,2,3		
CALCIUM	histology and biology of		LLVLL 1,2,3		1
METABOLISM	bone				-
	Regulation of calcium	1			
	metabolism				

	ercalcemia			
	er careerina			
	Hypoparathyroidism/			
	Hypocalcaemia			
	Disorders of Vitamin D			
	Bone disorders – Paget,			
	osteomalacia,			
	Osteoporosis			
	Knowledge			
	Describe the test for			
	evaluation of calcium			
	and BMD and FRAX			
	To determine			
	corrected calcium level			
	Skills			
	Ability to diagnose and			
	manage the above			
	conditions			
	To demonstrate the			
	physical signs of the			
	listed disorders			
	To be able to			
	distinguish			
	osteomalacia and			
	Osteoporosis			
	Attitude			
	To recognize when to			
	refer the above			
	conditions			
	Ability to recognize the			
	duration of treatment			
	 Recognize the need to 			
	monitor			
	 Recognize the need to 			
	report to seniors			
Gonadal disorders	Regulation of the Pituitary			
	gonadal axis			1
	Ovarian and testicular			
	Male hypogonadism			
	Female infertility			
	ED			
	Ovarian disorders:			
	Polycystic ovarian disease			
	Turner's syndrome			
	Knowledge			
	 Discuss the 			
	pathophysiology of			
	these disease			
	conditions			
	 List the clinical 			
	features of the above			
	conditions			
	Discuss the differential			
	diagnosis of the above			
	conditions			
	 List the investigations 			
	-			

	T.			1		1
	and their					
	interpretation					
	 Discuss the 					
	management of each					
	of them					
	SKILLS					
	 Ability to request for 					
	appropriate tests and					
	interpret the results					
	 Ability to measure and 					
	interpret the					
	anthropometric					
	measure					
	 Ability to manage the 					
	above conditions					
	Attitude					
	Recognize the role of					
	the Endocrinologist in					
	the management of					
	these conditions					
	To recognize when to					
	refer the above					
	conditions					
	Recognize need to					
	report to seniors					
	Recognize the					
	multidisciplinary treat					
	approach					
				I		1
I						
DOMAIN: 2. DIABET	 ES MELLITUS AND PANCREAS	30%				
DOMAIN: 2. DIABET The Scientific	ES MELLITUS AND PANCREAS Knowledge:	30%	LEVEL 1,2,3		CBD	
		30%	LEVEL 1,2,3		CBD MCEX	6
The Scientific	Knowledge:	30%	LEVEL 1,2,3			6
The Scientific foundations for	Knowledge: Describe the anatomy	30%	LEVEL 1,2,3		MCEX	6
The Scientific foundations for the Management	Knowledge: Describe the anatomy and physiology of the	30%	LEVEL 1,2,3		MCEX DOPS	6
The Scientific foundations for the Management of diabetes	Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate	30%	LEVEL 1,2,3		MCEX DOPS Mcqs	6
The Scientific foundations for the Management of diabetes	Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays	6
The Scientific foundations for the Management of diabetes mellitus	Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of	Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general	Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of	Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of diabetes mellitus Acute	Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of diabetes mellitus	Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins Describe and classify	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of diabetes mellitus Acute	Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins Describe and classify carbohydrate intolerance using WHO	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of diabetes mellitus Acute Complications of DM	Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins Describe and classify carbohydrate intolerance using WHO classification	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of diabetes mellitus Acute Complications of DM Management of	Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins Describe and classify carbohydrate intolerance using WHO classification Discuss the	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of diabetes mellitus Acute Complications of DM Management of Patients with	Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins Describe and classify carbohydrate intolerance using WHO classification Discuss the aetiopathogenesis and	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of diabetes mellitus Acute Complications of DM Management of Patients with Diabetes during	Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins Describe and classify carbohydrate intolerance using WHO classification Discuss the aetiopathogenesis and pathophysiology of T1	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of diabetes mellitus Acute Complications of DM Management of Patients with Diabetes during Acute Illness or	Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins Describe and classify carbohydrate intolerance using WHO classification Discuss the aetiopathogenesis and	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of diabetes mellitus Acute Complications of DM Management of Patients with Diabetes during	Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins Describe and classify carbohydrate intolerance using WHO classification Discuss the aetiopathogenesis and pathophysiology of T1	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of diabetes mellitus Acute Complications of DM Management of Patients with Diabetes during Acute Illness or Surgery	 Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins Describe and classify carbohydrate intolerance using WHO classification Discuss the aetiopathogenesis and pathophysiology of T1 and T2 DM 	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of diabetes mellitus Acute Complications of DM Management of Patients with Diabetes during Acute Illness or Surgery Pregnancy in	 Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins Describe and classify carbohydrate intolerance using WHO classification Discuss the aetiopathogenesis and pathophysiology of T1 and T2 DM To compare T1 and T2 DM	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of diabetes mellitus Acute Complications of DM Management of Patients with Diabetes during Acute Illness or Surgery Pregnancy in Diabetes Mellitus	 Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins Describe and classify carbohydrate intolerance using WHO classification Discuss the aetiopathogenesis and pathophysiology of T1 and T2 DM To compare T1 and T2 DM To describe the clinical 	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of diabetes mellitus Acute Complications of DM Management of Patients with Diabetes during Acute Illness or Surgery Pregnancy in Diabetes Mellitus Diabetes in the	 Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins Describe and classify carbohydrate intolerance using WHO classification Discuss the aetiopathogenesis and pathophysiology of T1 and T2 DM To compare T1 and T2 DM To describe the clinical features of DM	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of diabetes mellitus Acute Complications of DM Management of Patients with Diabetes during Acute Illness or Surgery Pregnancy in Diabetes Mellitus	 Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins Describe and classify carbohydrate intolerance using WHO classification Discuss the aetiopathogenesis and pathophysiology of T1 and T2 DM To compare T1 and T2 DM To describe the clinical features of DM The principles of	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
The Scientific foundations for the Management of diabetes mellitus Diagnosis and general management of diabetes mellitus Acute Complications of DM Management of Patients with Diabetes during Acute Illness or Surgery Pregnancy in Diabetes Mellitus Diabetes in the Older Adult	 Knowledge: Describe the anatomy and physiology of the endocrine pancreas Carbohydrate metabolism including role of Endocrine pancreas and the Incretins Describe and classify carbohydrate intolerance using WHO classification Discuss the aetiopathogenesis and pathophysiology of T1 and T2 DM To compare T1 and T2 DM To describe the clinical features of DM	30%	LEVEL 1,2,3		MCEX DOPS Mcqs Essays Assignm Log book	6
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Complications of	Discuss the				
Diabetes	characteristics of the				
	injectables and non-				
	injectable blood				
	glucose lowering				
	agents				
	Describe the				
	monitoring of DM				
	control				
	Discuss the				
	component of				
	Metabolic syndrome				
	relate the treatment				
	of types of diabetes to				
	the				
	Skills:				
	Be able to elucidate an				
	appropriate history				
	and interpret tests				
	done to differentiate				
	different types of				
	diabetes				
	diabetes				
	 To perform urinalysis 				
	and 24hr urine				
	collection				
	-1				
	Educate patients in the				
	use of injectables				
	especially insulin				
	delivery devices				
	including syringes,				
	pens				
	Educate patients in the				
	use of self-blood				
	glucose monitoring				
	systems				
	,				
	 Educating patients on 				
	injectables in type 2				
	diabetes Attitudes				
	To recognize the				
	implications and				
	concerns arising from				
	a diagnosis of diabetes				
	and provide advice				
	appropriately				
	 To recognize the importance of team 				
	management				
	To recognize the				
	J		l	l	1

	misconception of				
	myths as a barrier to				
	management				
	 To recognize the 				
	central role of the				
	patient and their				
	active participation in				
	the team management				
	of their diabetes				
	Macrovascular Disease				
	Complications in diabetes				
	Microvascular Chronic				
	Complications of				
	Diabetes				
	Foot Disease Problems in				
	People With Diabetes				
	Mellitus				
DOMAIN: 3. METAE	OLIC DISORDERS 7.5%		•		
DISORDER OF	Knowledge			CBD	
PURINE AND	 Describe the 			MCEX	1
PYRIMIDINE	pathophysiology of			DOPS	
METABOLISM	hyperuricemia and the			Mcqs	
(Including uric acid	disease condition			Essays	
disorders)	associated with it			Assignm	
	Describe the clinical			Log book	
	presentation			OSCE	
	Describe the methods				
	of treatment of				
	hyperuricemia and				
	associated diseases				
HEAM	Knowledge				
METABOLISM	Describe the				
(Porphyria)	pathophysiology of the				
	condition				
	List the main clinical				
	features and the				
	differential diagnosis				
	of the condition				
	Recognize the				
	presentation of these				
	disease				
	Knowledge				
STORAGE DISEASE	Describe the				
(Glycogen and	pathophysiology of the				
Lipid Storage)	condition				
	List the different main				
	types				
	List the different ways				
	the condition may				
LIPID DISORDERS	present				
(Dyslipidaemia	Knowledge				
	_				
	 Basic knowledge of lipid metabolism 				
	iipiu illetabolisiii				
	1		1	<u> </u>	İ

			•		
ELECTROLYTES DISORDERS (hypo Na, hyper Na, HypoK, Hyper K	Classify primary condition List the conditions associated with secondary dyslipidemia Describe its role in DM, heart disease, metabolic syndrome and ischemic heart disease Knowledge List the causes Describe the presentations Discuss the pathophysiology Describe the investigations Discuss the differential diagnosis Discuss the management Skills Ability to select the right tests Ability to make a clinical diagnosis Ability to manage and initiate treatment of the above metabolic conditions in its acute				
	Ability to make a dietary prescription				
DOMAIN: 4. ADULT	NUTRITION & OTHERS 7.5%				
				CRD	
NUTRITIONAL DISORDERS	Obesity Knowledge Describe the basic concept of human nutrition including nutritional requirements in specific condition e.g. pregnancy Clinical and laboratory assessment of obesity Discuss the differential diagnosis of obesity List complications of obesity Discuss the principles of management of simple obesity			CBD MCEX DOPS Mcqs Essays Assignm Log book OSCE	2

	Skills					
	Ability to take					
	anthropometric					
	measurement					
	Use the					
	measurements to					
	classify obesity					
	 Ability to take a diet 					
	history					
	Ability to offer					
	nutritional advise in					
	different medical					
	condition					
	Attitude					
	 Ability to recognize the 					
	challenges of					
	treatment					
	Recognize the					
	multidisciplinary					
	approach to					
	management and					
	need to avoid being					
	judgmental					
	Eating disorders -					
	Anorexia Nervosa and					
	Bulimia					
	Knowledge					
	Identify the clinical					
	feature and distinguish					
	between them					
	Identify differential					
	diagnosis and					
	management them					
	Skills					
	Ability to make a					
	diagnosis and outline the					
	principle of treat					
	Medical Nutritional					
	Therapy(MNT)					
	Describe MNT and					
	counsel(s) and prescribe					
	diet(s)					
	Vitamin and iodine def.					
DOMAIN:5 ENDOCR	INE &METABOLIC EMERGENO	IES AND MISCI	ELLANOUS DISORDE	RS 15%		
	Thyroid crisis				CBD	
EMERGNGENCIES	Myxedema coma				MCEX	2
	Adrenal crisis				DOPS	
	Hyper and Hypocalcaemia				Mcqs	
	crisis				Essays	
	Hyperglycaemic				Assignm	
	emergencies –DKA, HHS				Log book	
	Hypoglycaemic				OSCE	
	emergencies				JJCL	
	Knowledge					
	Discuss the					
	pathophysiology of					
1			20			

each condition Describe the clinical features and presentation of each List common causes of these conditions including the differential diagnosis Describe the point of care of each Describe the approach to diagnosis and management Skills Ability to perform the relevant bedside and point of care investigation Ability to request for relevant investigation Ability to interpret the results Ability to intitiate treatment and monitor response to treatment Attitude
features and presentation of each List common causes of these conditions including the differential diagnosis Describe the point of care of each Describe the approach to diagnosis and management Skills Ability to perform the relevant bedside and point of care investigation Ability to request for relevant investigation Ability to interpret the results Ability to initiate treatment and monitor response to treatment
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relevant bedside and point of care investigation • Ability to request for relevant investigation • Ability to interpret the results • Ability to initiate treatment and monitor response to treatment
point of care investigation Ability to request for relevant investigation Ability to interpret the results Ability to initiate treatment and monitor response to treatment
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Ability to interpret the results Ability to initiate treatment and monitor response to treatment
results • Ability to initiate treatment and monitor response to treatment
Ability to initiate treatment and monitor response to treatment
treatment and monitor response to treatment
monitor response to treatment
treatment
treatment
ritteade
To recognize
emergency nature
Ability to
communicate to
relatives
To consult and refer
MISCELLANOUS Steroid and other
hormonal abuse
normonal abuse
List commonly abused 1
normone such as steroid,
GH, thyroxine
List the complications of
hormone abuse
Describe the approach of
management of abuse
and complications
MENS
Paraneoplastic syndrome
Thyroid cancer,
APUDOMAS, Adrenal
cancers, Pituitary cancers
Knowledge
Describe their clinic
features

Ability to offer			
differential diagnosis			
Skills			
Ability to offer			
screening test and			
interpret(s)			
Ability to initiate			
management including			
referral			
Ability to counsel			
patients and relatives			
Attitude			
To recognize the			
implication of			
diagnosis and impact			
on family			
Recognize the			
importance of			
effective			
communication			
Recognize the multi-			
disciplinary and the			
psychosocial nature			

2.4.5 Gastroenterology & Hepatology

Title/ Theme or Domain	Specific topics, knowledge, attitude, skills	Mode of Delivery	% course coverage	Learning objectives (using taxonomy)	TCU	Method of Assessment s
Introduction to Gastroenterology & Hepatology	Basic concepts, anatomy, physiology and pathology of the liver. gastrointestinal tract (GIT). Hepatic function and structure, hepatic blood supply, portal vein and portal hypertension. Gastrointestinal system from oesophagus to small and large bowel and adnexal structures.	1-3, 5	10	Level I,II	2	MCQ, Essays
Basic Clinical GIT and hepatology	Symptoms and signs in liver and GIT diseases including jaundice and ascites. Relevant clinical examination, investigations leading to diagnosis.	1-5	15	Level	3	MCQ, essay, Clinical or Case presentation , DOPS
Laboratory Investigations in gastrointestinal tract and liver	Interpretation & Evaluation of abnormal liver function tests and other gastrointestinal function tests. Compare and contrast different profiles of liver tests in appropriate clinical situations like heamolytic, hepatocellular and cholestatic jaundice.	1-5	10	Level	2	Case presentation , log book, MCQ
Liver diseases	Etiology and pathophysiology of acute and chronic liver disease and their complications: This includes knowledge of viral hepatitis, autoimmune hepatitis, fatty liver disease and drug-induced liver injury. Hepatic infections and focal benign and malignant liver conditions. Clinical management guidelines for common liver conditions.	1-5	15	Level	3	Essay, MCQ, case Presentation
Disorders of eosophagus, stomach and duodenum	Symptomatic syndromes such as dyspepsia, dysphagia, acute and chronic abdominal pain. Acid-peptic diseases including (but not limited to) GERD, Peptic ulcer diseases, functional diseases and	1-5	15	Level	3	Essay, MCQ, Case presentation

	complications.					
Disorders of Small bowel and colon.	Symptomatic syndromes such as acute and chronic diarrhea. Diseases such as malabsorbtion syndrome, Inflammatory bowel disease, Irritable bowel syndrome, Diverticular Disease.	1-5	10	Level I,II	2	Essay, MCQ, Case presentation
Disorders of the Pancreases & biliary tree	Acute and Chronic Pancreatitis Biliary disease including gall stone disease and obstructive jaundice.	1-5	5	Level I, II	1	Essay, MCQ, Case presentation
Tropical and Miscellaneous diseases	Parasitic and other infections of the bowel and liver. This includes Amoebic liver disease, hyper immune malarial splenomegaly, abdominal tuberculosis and Peritoneal diseases Nutrition	1-5	5	Level	1	Essay, MCQ, Case presentation
Radiological and Endoscopic clinical competency	Knowledge and observation of upper and lower GI endoscopy including indications, contraindications and complications. Proctoscopy and rectal snip. Percutaneous liver biopsy, Interpretation of Ultrasound scan Knowledge of advanced endoscopic procedures like ERCP and endoscopic Ultrasound scan	1-5	5	Level	1	Essay, MCQ, case presentation
Clinical emergencies in Gastroenterology & Hepatology	Upper and lower gastrointestinal bleeding, Hepatic encephalopathy, acute (medical) abdomen, severe inflammatory bowel disease, severe ascites	1-5	5	Level	1	
Specific clinical competencies in Hepatology & Gastroenterology	Abdominal paracentesis (P) Fine needle aspiration biopsy. Liver biopsy (O) Upper abdominal Ultrasound (O) Peritoneal biopsy (O)	1-5	5	Level	1	Essay, Log book,

2.4.6 NEPHROLOGY

Course title	Specific topics, knowledge, attitude and skills	Mode of delivery	% of course coverage	Learning objectives (Levels using taxonomy)	Total credit units	Assessment methods
BASIC CONCEPTS	To describe and comprehend the anatomy and physiology of the kidney.	1,5	5%	1,11	0.5	MCQs, ESSAYS
	To elicit symptoms and signs and make appropriate diagnosis of kidney diseases.	1,4,5	5%	1,11,111	0.5	MCQS ,ESSAYS
	Discuss investigations and comprehend diagnosis of renal disease. (Including procedures; renal biopsy,IVU etc), Demonstrate ability to interpret data in Nephrology.	1,4,5	5%	1,11,111	1	MCQS, ESSAYS, CLINICALS /PRACTICALS
Fluids, electrolyte and acid base disorders	Describe water metabolism, Explain, interpret and recognize the importance of disorders of sodium, potassium, magnesium and calcium, including acidosis and alkalosis.	1,2,4,5,6	5%	1,11	0.5	MCQS , ESSAYS , CLIN/PRACT
Acute kidney injury	-Outline the definition, describe the epidemiology, - list the causes, -explain the pathophysiology, -identify the clinical features, investigations, and outline the management.	1,2,3,4,5,7	8%	1,11,111	1	MCQS , ESSAYS ,CLIN/PRACT
Chronic kidney disease	Describe the epidemiology, explain the pathophysiology, clinical features, list investigations, and participate in the management.	1,2,3,4,5,7	10%	1,11,111	2	MCQS, ESSAYS, CLIN/PRACT
Glomerulonephritis	Categorize and identify acute, primary and secondary, describe the	1,3,4,6,7	5%	1,11	1	MCQS , ESSAYS, CLIN/PRACT

	clinical features and	1				
	outline management.					
Nephrotic syndrome	Definition, list the causes,	1,3,4,6,7	5%	1,11	1	MCQS,
	comprehend the					ESSAYS,
	classification, explain the					CLIN/PRACT
	pathogenesis, clinical					
	features, outline					
	investigations, and					
	management					
Urinary tract	Explain the epidemiology,	1,2,3,4,5	3%	1,11,111	1	MCQS,
Infection	pathophysiology, clinical					ESSAYS,
	features,identify and keep					CLIN/PRACT
	abreast of investigations,					
	and management					
Interstitial renal	Explain and identify acute,	1,2,3,4,5,7	2%	1,11,111	0.5	MCQS,
disease	chronic interstitial					ESSAYS,
	nephritis, including					CLIN/PRACT
	analgesic nephropathies					
Hypertension and the	Describe the epidemiology,	1,3,4,5,7	5%	1,11,111	1	MCQS,
kidney	pathophysiology, clinical					ESSAYS,
	features, outline					CLIN/PRACT
	investigations, and keep					
	abreast of management.					
Dialysis	Explain and comprehend	1,2,3,4,5,6,7	5%	1,11	2	MCQS +
	renal replacement					ESSAYS +
	therapies (Heamodialysis,					CLIN/PRACT
	peritoneal dialysis, ultra					
	filtration, Continuous renal					
	replacement therapy),					
	describe access types and					
	assess complications					
Kidney	List the Indications and	1,4,5,7	5%	1,11	1	MCQS +
transplantation	contraindications, explain	' ' '		,		ESSAYS +
	donor preparations and					CLIN/PRACT
	selections, identify					
	immediate and long term					
	complications(including					
	rejections) and outline					
	treatment.					
	Explain and understand					
	the indications and					
	mechanisms of action and					
	side effects of					
	immunosuppressive					
Drugs and the kidney	agents. Discuss the excretion and	1,2,5,6	2%	1,11	0.5	MCQS,
Di ugo allu tile Kitiley		1,2,3,0	2/0	1,11	0.3	
	metabolism of drugs in the					ESSAYS
	healthy and diseased					
	kidneys		1			

Pregnancy and the kidneys	Explain the physiology response of the kidneys to	1,4,5,7	2%	I	1	MCQS, ESSAYS,
Riulleys	pregnancy. Identify and					CLIN/PRACT
	comprehend Obstructive kidney disease in					
	pregnancy.					
	Outline hypertension in					
	pregnancy (including					
	Toxaemia of pregnancy,					
),list investigations and					
	discuss management of					
	proteinuria in pregnancy					
Kidney in connective	Describe Lupus nephritis	1,3,4,5,7	2%	1,11	0.5	MCQS,
tissue diseases	and the vasculitidies					ESSAYS,
						CLIN/PRACT
Cystic diseases of the	Categorize Congenital and	1,2,5,7	2%	1,11	1	MCQS,
kidneys	acquired cystic diseases.					ESSAYS,
	Describe Autosomal					CLIN/PRACT
	Dominant Polycystic					
	Kidney Disease					
Diabetes and the	Diabetic Nephropathy;	1,3,4,5,7	5%	1,11	1	MCQS,
kidneys.	Definition, epidemiology,					ESSAYS
	describe the pathogenesis,					,CLIN/PRACT
	identify the clinical					
	features, list the					
	investigations, and keep					
	abreast of management.					
Obstructive	Categorize and discuss and	1,3,4,5,7	3%	1,11	1	MCQS,
nephropathy	participate in management					ESSAYS
	of congenital and acquired					,CLIN/PRACT
	obstruction.					
Congenital disease of	Describe the types , list	1,2,3,4,5	2%	1,11	0.5	MCQS,
the kidney	and comprehend the					ESSAYS,
	complications, discuss					CLIN/PRACT
	investigations and					
	management options.					
Renal tubular	Identify and discuss renal	1,2,3,4,5,6	2%	1	0.5	MCQS,
disorder	tubular acidosis, proximal					ESSAYS
	tubular disorders and					
	Diabetes insipidus.					
Renal tumors	Describe, identify and	1,2,3,4,5,6	2%	1,11	0.5	MCQS,
	assess Wilms tumor and					ESSAYS,
Torontool	renal cell carcinoma	4224555	Fo.		2.5	CLIN/PRACT
Tropical	Describe and recognize	1,2,3,4,5,6,7	5%	I	0.5	MCQS,
nephropathies	importance value of					ESSAYS,
	malaria nephropathies,					CLIN/PRACT
1111/ and the 122	filarial, schistosomal .	1224567	F0/	1 "	0.5	MCCC
HIV and the kidneys	Describe the epidemiology,	1,2,3,4,5,6,7	5%	1,11	0.5	MCQS,
	list types of involvement,					ESSAYS,

	explain the pathogenesis,			CLIN/PRACT
	outline the clinical features			
	and keep abreast of			
	management			
TOTAL UNITS			20	

2.4.7 Neurology

Title	Specific topics (Knowledge, Attitudes and Skills)	(%) of course	Learning Objectives	Total Credit Units	Mode of delivery	Mode of assessment
	Attitudes and Skills)	coverage	Objectives	Offics	uelively	assessifient
Basic	Functional localization: define	10	Level 3	2	1-6	MiniCEX,
concepts	and identify the likely site of a			_	_ •	MCQ, OSCE
·	lesion within the nervous					,
	system based on relevant					
	clinical history and examination					
	(K)					
	Approach to patient with		Level 3		1-4	MiniCEX,
	neurologic disease:					OSCE
	- demonstrate proficiency in					
	obtaining a complete and					
	concise, reliable and					
	chronological neurologic history					
	(S);					
	- demonstrate ability to					
	synthesize the history and					
	physical examination if					
	formulating a preliminary					
	differential diagnosis					
	(functional					
	anatomical/aetiological (S)					
	- exhibit a professional					
	empathetic disposure in					
	interacting with neurologic					
	patients and caregivers (A)					
	- recognize when specialist					
	neurologist opinion is required					
	(A)					
	The Neurologic Examination:		Level 3		4,5	MiniCEX,
	understand the anatomy and					OSCE
	pathways of underpinning the					
	neurologic examination (K);					
	demonstrate proficiency in					
	performing a reliable neurologic					
	examination eliciting verifiable					
	neurologic signs (full,					
	screening/abridged, and					
	focused neurologic					
	examination) (S); exhibits					
	empathy and good bedside					
	manner in performing					
	neurologic exam (A)					
Disorders of	Neuroanatomical basis of	5	Level 3	1	1,2,3,5	MCQ, Essay
consciousness	consciousness: understands the					
	basis for control of					

	consciousness and machanisms			l		l
	consciousness and mechanisms					
	leading to coma (K)				1 2 2 4 5	14: :051/
	Coma and other disorders of		Level 2		1,2.3.4.5	MiniCEX,
	consciousness; Acute					MCQ, Essay,
	confusional state; Brain death:					OSCE
	understands the definition,					
	differential diagnosis, causes					
	and clinical presentation (K);					
	demonstrates an understanding					
	of the initial evaluation					
	(including use of the GCS scale)					
	and management of altered					
	sensorium (K;S); demonstrates					
	empathy in communicating					
	poor prognosis (A)					
CNS	Meningitis	5	Level 3	1	1-6	Log book,
infections	(Acute/Subacute/Chronic);					MiniCEX,
	Brain Abscess; Encephalitis:					SAQ, MCQ,
	recognise the clinical					OSCE
	presentation of CNS infections					
	(K,S); demonstrate an					
	understanding of the					
	investigations (and findings),					
	diagnostic criteria, and initial					
	treatment of CNS infections					
	particularly ABM and TBM (K);					
	demonstrate ability to perform					
	a lumbar puncture and					
	recognize the indications and					
	contraindications (S)					
Cerebrovascul	Stroke: recognize the clinical	10	Level 2	2	1-7	Log book,
ar disease	presentation, risk factors, and	10	2010.2	_	1 - /	MiniCEX,
a. a.ocasc	subtypes of stroke (K, S);					SAQ, MCQ,
	demonstrate an understanding					OSCE
	of the localization of strokes					OSCE
	(based on vascular territory)					
	(K); outline the relevant					
	investigations in acute stroke					
	(including appropriate					
	prioritization); recognize the					
	neuroimaging features in stroke					
	subtypes (S); understand the					
	basis for initial interventions					
	and secondary prevention of					
Fuilous:	stroke (K)	10	Lovel 2	2	1.0	Minicry
Epilepsy and	Epilepsy; Status epilepticus;	10	Level 3	2	1-6	MiniCEX,
other	Differential diagnosis of					MCQ, SAQ,
paroxysmal	paroxysmal events (syncope,					Essay, OSCE
neurologic	etc): demonstrates knowledge					
disorders	of the definition and				1	

	classification of epileptic					
	seizures (K); understands the					
	causes and initial evaluation					
	and initial treatment of status					
	epilepticus (K,S); demonstrates					
	an understanding of the					
	distinguishing features of					
	seizures and syncope and other					
	paroxysmal events/ seizure					
	mimics (K).					
Headache	Definition and broad	5	Level 2	1	1-6	MiniCEX,
and Pain	classification of headaches;					MCQ, SAQ,
	Common primary headaches;					Essay, OSCE
	Approach to pain					
	management: demonstrates					
	knowledge of the classification					
	of HA and diagnostic criteria for					
	migraine, tension HA, cluster					
	headache (K); understands the					
	distinguishing features of					
	primary headaches and red					
	flags for dangerous headaches					
	(K); demonstrates					
	understanding of the principles					
	of analgesic use (K, A);					
	understands the distinguishing					
	features of neuropathic and					
	somatic pain (K)					
Spine and	Spinal cord syndromes;	5	Level 2	1	1 - 6	MiniCEX,
spinal cord	Common causes of			_		MCQ, Essay,
disorders	myelopathies: Recognizes the					SAQ, OSCE
	clinical manifestations of the					•
	spinal cord syndromes					
	(including cauda equine and					
	conus medullaris lesions) (K);					
	Recognizes the common causes					
	of myelopathies (including					
	acute causes (K); Recognizes					
	the appropriate imaging					
	modalities of myelopathies (K);					
Dorinhard	Common granial nassanathis	г	Lovel 2	1	1 (Mi~:CEV
Peripheral	Common cranial neuropathies;	5	Level 3	1	1 - 6	MiniCEX,
neuropathies	Acute demyelinating neuropathy; Common causes					MCQ, OSCE
	1					
	of peripheral neuropathy:					
	recognize the common cranial					
	neuropathies (CN VII and III) and their causes (K,S);					
	demonstrate an understanding					
	demonstrate an understanding					

	of the clinical presentation of GBS and CIDP; recognize the presentation of diabetic neuropathies (K)					
Myopathies and neuromuscul ar junction disorders	Approach to evaluation of muscle weakness; Myasthenic syndromes: recognize the clinical localization and common causes of muscle weakness (K, S); describe the aetiopathogenesis and features of myasthenic syndromes and distinguish myasthenia gravis from Eaton Lambert syndrome; recognize and differentiate myasthenic and cholinergic crises (K,S); describe the procedure for a Tensilon test (K, S)	5	Level 3	1	1-6	MCQ, OSCE, CbD, MiniCEX
Gait, Coordination and Movement disorders	Classification and Overview of Movement Disorders; Parkinsonism and Parkinson disease; Cerebellar disorders: demonstrate an understanding of the broad types of movement disorders (K); demonstrate the ability to examine a patient with tremors (S); understand the distinguishing features of the tremor syndromes (K); distinguish PD from other common neurogenerative parkinsonisms (K); be aware of the causes of cerebellar ataxia (K)	5	Level 2	1	1-6	MCQ, MiniCEX, OSCE,
Sleep and sleep disorders	Basic concepts of sleep physiology; Broad classification of sleep disorders; Evaluation of a patient with sleep disorder: understand the control of sleep (K); demonstrate knowledge of the broad classes of sleep disorders (K); recognize the features of common sleep disorders (insomnia, narcolepsy, OSA) (K); describe and conduct a clinical	5	Level 2	1	1 -3, 4, 5, 6	MCQ, Essay, SAQ, MiniCEX

		sleep evaluation (K,S)					
Der	nentia and	Differential diagnosis of	5	Level 2	1	1-6	MiniCEX,
disc	orders of	dementia; Aphasias: recognize					MCQ, OSCE,
higl	ner	and describe the domains of					SAQ, Essay
	tical	cognitive function, common					
fun	ction	causes and classification of					
		dementia (K); describe the					
		evaluation of cognitive function					
		using common instrument					
		(MMSE) (S); describe the					
		anatomical basis of language					
		function, subtypes of aphasia,					
		and common causes (K)					
Neı	ırotoxicol	Tetanus; Botulism; Wernicke-	5	Level 3	1	1-6	MCQ, OSCE,
ogic	and	Korsakoff syndrome; Vitamin					SAQ, Essay
Nut	rition –	B12 related disorders:					,
rela	ited	demonstrate an understanding					
disc	orders	of the pathogenesis, clinical					
		features, investigation,					
		differential diagnosis and initial					
		treatment of these disorders					
		(K);					
Mis	cellaneou						
s di	sorders						
a)	Disorder	Normal pressure	10	Level 3	2	4-6	OSCE, MCQ,
	s of CSF	hydrocephalus; Pseudotumor					SAQ
	circulatio	cerebri (idiopathic intracranial					
	n	hypertension): recognize the					
		clinical and radiologic features					
		of NPH and IIH (K)					
b)	Raised	Be aware of the common		Level 3		1-6	MCQ, OSCE,
	intracran	causes, mechanisms and clinical					SAQ
	ial	features of raised ICP including					
	pressure	herniation syndromes (K);					
		demonstrate knowledge of the					
L		methods of treating raised ICP					
c)	Motor	Amyotrophic lateral sclerosis:		Level 1		2-4,6	MCQ, OSCE,
	neuron	recognize the clinical features					SAQ
	disease	and distinguishing					
		characteristics of ALS (K)					
d)	Nervous	Primary and secondary CNS		Level 1		1,6	MCQ, OSCE,
	system	tumors; Paraneoplastic					SAQ
	and	neurologic syndromes:					
	cancer	demonstrate knowledge of the					
		types of brain tumors and					
		common origins and clinical					
		features of brain tumors and					
		metastases (K)					
e)	Autoimm	Neuromyelitis optica; Multiple		Level 1		2,3,5	MCQ, OSCE,
ĺ	une and						

	demyelin	sclerosis; Postinfectious					SAQ
	ating	encephalomyelitis:					
	disorders	demonstrate knowledge of the					
		mechanism, clinical features,					
		investigation of these disorders					
		(K)					
f)	Neurode	Neurocutaneous syndromes;		Level 1		1,6	MCQ, OSCE,
	velopme	Chiari malformation: be aware					MiniCEX
	ntal 	of the spectrum of and					
	disorders	distinguishing features of the					
		neurocutaneous syndromes (K);					
		recognize the types and					
		features of Chiari					
		malformations (K)					
Con	nmon	Acute stroke, status	10	Level 3	2	1-6	MiniCEX,
neu	ırologic	epilepticus, acute meningitis,					MCQ, OSCE,
em	ergencies	head injury, severe headaches,					SAQ, Essay
		acute confusional state, acute					
		paralysis: Recognize the clinical					
		presentation, investigation, and					
		initial treatment of common					
		neurologic disorders (K)					

2.4.8 Respiratory Medicine

Theme	Specific topic, Knowledge, Attitude, Skills	% Course Coverage	Learning Objectives (Using taxonomy)	Mode of delivery	Total Credit unit	Method of Assessment
Basic Concepts	Describe the embryology, anatomy and physiology of the respiratory system	3	Level 1	1, 2, 3	1	MCQ, SAQ
	List the respiratory defenses		Level 1	1, 2, 3		MCQ, SAQ
	Comprehend the concept of ventilation/perfusion of the lungs		Level 2	1, 2, 3, 6		MCQ, SAQ, log book, essay
Investigation s in pulmonology	Order and interpret sputum microscopy and culture for bacteria, tuberculosis and fungal elements. Discuss the indications for peak flow and spirometry and be able to perform and interpret the results of these measurements. Demonstrate the ability to order and perform sputum	10	Level 3	2, 3, 4, 5	2	MCQ, SAQ, OSCE, Essay, Log book.
	 induction. Comprehend the indications for lung volume measurement and diffusing capacity for carbon monoxide and how they are affected by disease. 		Level 3			
	Invasive • Undertake fine needle		Level 3			
	 aspiration biopsy of peripheral lymph nodes. Identify the indications for bronchoscopy and thoracic ultrasound and the potential complications 		Level 2			
Obstructive airway diseases (Asthma and Chronic obstructive pulmonary disease (COPD)	Employ guidelines in the diagnosis, classification of severity and treatment of asthma and COPD. Recognize the circumstances for referral and be able to undertake the management of acute exacerbations based on guidelines.	10	Level 3	2, 3, 4, 5, 6, 7	2	MCQ, SAQ, OSCE, Essay, Log book.
Cor- pulmonale	Assess and recognize the risk factors for cor-pulmonale, employ appropriate diagnostic modalities and commence treatment.	3	Level 3	2, 3, 4, 5, 6, 7	0.5	MCQ, SAQ, OSCE, Essay, Log book
Acute respiratory distress syndrome and respiratory	Elicit symptoms and signs of acute respiratory distress syndrome and respiratory failure. Order and interpret results of arterial blood gas, commence management and recognize the circumstances for referral for assisted	3	Level 3	2, 3, 4, 5, 6, 7	0.5	MCQ, SAQ, OSCE, Essay, Log book

failure	ventilation.					
Oxygen therapy and Mechanical ventilation	Identify the indications for oxygen therapy, ensure safe prescribing and recognize potential toxicity. Comprehend the indications for non-invasive and invasive ventilation and the principles of use.	5	Level 3	2, 3, 4, 5, 6, 7	1	MCQ, SAQ, OSCE, Essay, Log book
Pneumonia	Discuss the pathogenesis, pathophysiology, diagnosis, severity classification of pneumonia and employ guidelines in the management of pneumonia.	10	Level 3	1, 2, 3, 4, 5, 6, 7	2	MCQ, SAQ, OSCE, Essay, Log book
Deep vein thrombosis and pulmonary embolism	Assess for the risk factors for DVT and PE. Order appropriate investigations for diagnosis and commence prophylactic and therapeutic treatment as appropriate including the use of anticoagulants and thrombolytic agents. Counsel on DVT and PE prevention.	5	Level 3	1, 2, 3, 4, 5, 6, 7	1	MCQ, SAQ, Essay
Pleural effusion and Pneumothor ax	Perform pleural aspiration institute emergency treatment and seek appropriate treatment . Recognize the indications for pleural biopsy and comprehend the procedure.	5	Level 3	3, 4, 5	1	MCQ, SAQ, Essay, log book
Hemoptysis	Assess for the risk factors and severity of hemoptysis. Should be able to institute emergency management and seek additional expertise.	5	Level 3	2, 3, 4, 5	1	MCQ, SAQ, Essay, log book
Pulmonary tuberculosis	Undertake the diagnosis and be able to prescribe standard treatment. Comprehend the definition, risk factors, diagnostic modalities for multidrug resistance and extremely drug resistant TB and ensure appropriate referral for further care.	10	Level 3	1, 2, 3, 4, 5, 6, 7	2	MCQ, SAQ, OSCE, Essay, log book
HIV and the lungs	Describe the infectious and non- infectious manifestations of HIV in the lungs and the drug Interactions in HIV and TB treatment.	3	Level 2	1, 2, 3, 4, 5, 6, 7	0.5	MCQ, SAQ, OSCE, Essay, log book
Suppurative lung diseases	Describe the classification, diagnosis and approach to management.	5	Level 2	1, 2, 3, 4, 5, 6	1	MCQ, SAQ, OSCE, Essay
Interstitial lung disease/ Occupational lung diseases	Describe the risk factors and order basic investigations to diagnose these conditions. They should have a basic understanding of the approach to management	3	Level 2	3, 5	0.5	MCQ, SAQ, OSCE, Essay
Obstructive sleep apnea and other sleep disordered breathing.	Discuss the risk factors and approach to diagnosis and treatment.	5	Level 3	1, 2, 4	1	MCQ, SAQ, OSCE, Essay
Introduction to pulmonary neoplasias	Describe the risk factors for lung cancer and recognize the general approach to diagnosis and treatment.	3	Level 3	1, 2, 4, 5	0.5	MCQ, SAQ, OSCE
Tobacco use,	Discuss the prevalence and risk	5	Level 3	2, 3, 6	1	MCQ, SAQ,

addiction and therapy	associated with tobacco us. Participate in the multidisciplinary approach in					OSCE, Essay
and therapy	smoking cessation.					
Pulmonary rehabilitation	Identify the indications for pulmonary rehabilitations. Describe the procedure and the potential efficacy.	2	Level 2	2, 4	0.5	MCQ, SAQ
Lung transplantati on	Outline the indications for lung transplantation.	2	Level 2	2,5	0.5	MCQ
Drugs and the lungs	Discuss the drugs that that have the potential adverse drug reactions in the lungs	3	Level 3	2, 4.	0.5	MCQ, SAQ, OSCE, Essay

2.4.9. DERMATOLOGY AND GENITO-URINARY MEDICINE

DOMAIN	SPECIFIC TOPICS - KNOWLEDGE ATTITUDES AND SKILLS	% OF COURSE CONTENT	LEARNING OBJECTIVES	MODE OF DELIVERY	TOTAL CREDIT UNITS	METHOD OF ASSESSMENT
DE	RMATOLOGY	<u> </u>			05	1
Introduction to Dermatology	KNOWLEDGE Describe the anatomy, physiology and functions of the skin. Categorize the terminology used in dermatology. SKILLS Demonstrate the ability to take a good dermatological history and conduct a proper examination of the skin	2.5	Level 1-3	1,2,3,4	0.5	MCQ Theory questions Log book OSCE
Diagnostic and screening procedures in dermatology	SKILLS Demonstrate the ability to interpret and apply results of the following: Skin scrapings (P) Skin Biopsies(P) Patch Test(O) Slit skin smear (O) Skin snip (O)	5	Level 3	1,2,3,4	1	MCQ Theory questions Log book Practicals OSCE
Eczema	Classify eczemas and discuss the aetiopathogenesis, clinical features, management of and recent advances in the following:	5	Level 1-3	1,2,3,4,5,6	1	MCQ Theory questions Practicals OSCE
Disorders of the adnexeal skin structures (pilosebaceous, apocrine, eccrine glands and the nails)	List adnexal skin structures. Discuss the aetiopathogenesis, clinical features and management of the following:	5	Level 1-3	1,2,3,4,5,6	1	MCQ Theory questions OSCE

Alopecia	Define alopecia, classify and discuss the causes, diagnosis and management of scarring and non scarring alopecia.	2.5	Level 1-3	1,2,3,4,5,6	0.5	MCQ Theory questions Practicals OSCE
Papulosquamou s disorders	Define and classify papulosquamous disorders. Discuss the aetiopathogenesis, clinical features and management of the following: • Psoriasis • Lichen planus • Pityriasis rosea • Seborrheic dermatitis List the associated risk factors	5	Level 1 - 3	1,2,3,4,5,6	1	MCQ Theory questions Log Book OSCE
Superficial skin infections and infestations (bacterial, fungal, viral and parasitic)	Define and classify superficial skin infections and infestations. Discuss the clinical features and management of the following superficial skin infections: Bacterial infections Fungal infections Viral infections Parasitic infestations	10	Level 1-3	1,2,3,4,5,6	2	MCQ Theory questions Practicals Log Book OSCE
Leprosy	Define and classify leprosy. Discuss the pathogenesis, diagnosis, management, prevention and complications associated with leprosy	5	Level 1-3	1,2,3,4,5,6,7	1	MCQ Theory questions Practicals Log Book OSCE
Blistering skin disorders	Define and classify blistering skin disorders. Discuss the diagnosis, management and complications associated with blistering skin disorders. • Pemphigus • Pemphigoid	5	Level 1-3	1,2,3,4	1	MCQ Theory questions Practicals OSCE
Pigmentary skin disorders	Define and classify Pigmentary skin disorders. Discuss the diagnosis, management, associated disorders and complications associated with Pigmentary skin disorders. • Vitiligo • Albinism • Lentigines	5	Level 2	1,2,3,4,5	1	MCQ Theory questions Log Book OSCE
	Define HIV infection, AIDS, HAART and Opportunistic infections.					MCQ Theory

HIV/AIDS	Discuss the aetiopathogenesis, WHO staging, clinical features, management of and recent advances in HIV infection. Discuss the prevention of HIV infection (pre/post exposure prophylaxis)	10	Level 1 - 3	1,2,3,4,5,6,7	2	questions Practicals Log Book OSCE
Cutaneous manifestations of:	Discuss the diagnosis, clinical features and management of the following: System Disorders Diabetes mellitus Thyroid disorders Chronic liver disease Chronic renal failure Tuberculosis Connective Tissue Disorders SLE Systemic sclerosis Mixed connective tissue disease Rheumatoid arthritis Sarcoidosis Dermatomyositis Internal malignancies Carcinomas of the breast, liver, lungs Hodgkin,s lymphoma Definition Epidemiology Pathophysiology Diagnosis – Multi disciplinary approach Management	10	Level 1 - 3	1,2,3,4,5	2	MCQ Theory questions Log Book OSCE
Common skin cancers	List the common skin cancers. Discuss Basal cell carcinoma, Squamous cell carcinoma and Melanomas using the following sub heads:	5	Level 1 - 3	1,2,3,4,5,6,7	1	MCQ Theory questions Practicals Log Book OSCE
Dermatological preparations and drugs used in dermatology	Discuss the indications, contraindications and side effects associated with the use of antifungals, corticosteroids, immunosuppresants, sunscreens and biologics in dermatology.	5	Level 1 - 2	1,2,3,4,5,6	1	MCQ Theory questions Practicals OSCE

Adverse cutaneous drug reactions	Define drug reactions. List the common drug reactions encountered in dermatology Discuss the management of: Fixed drug eruptions Erythema multiforme — major/minor Steven Johnsons syndrome Scalded skin syndrome Toxic epidermal necrolysis Hypersensitivity vasculitis Erythroderma Lichenoid drug eruptions	5	Level 1-3	1,2,3,4,5,6	1	MCQ Theory questions Practicals Log Book OSCE
The genitourinary system	Describe the anatomy and physiology of the GUS	2.5	Level 1	1,2,3,4	0.5	MCQ Theory questions
Common sexually transmitted diseases	Define sexually transmitted diseases Discuss the syndromic management of STDs Describe the 4Cs of STD management Discuss recent advances in management and safe sexual practices	10	Level 1-3	1,2,3,4,5,6,7	2	MCQ Theory questions Practicals Log Book OSCE
Sexual dysfunction	Define sexual dysfunction. Discuss the Pathophysiology, Symptoms and signs, risk factors, diagnosis and management of sexual dysfunction.	2.5	Level 1 - 2	1,2,3,4,5	0.5	MCQ Theory questions

2.4.10 Clinical Pharmacology & Therapeutics

Introductory Clinical Pharmacology & Therapeutiics	Specific topics, knowledge, attitudes skills History of Basic and Clinical Pharmacology Drug discovery, development (incl. introduction to clinical trials and Regulation . Principles of Pharmacokinetics and Pharmacodynamics	% of course coverag e 15	Learning objectives (using taxonomy)	Mode of delivery	Total credit units 7	Method of assessment
Organ-System	Biotransformation of Medicines Therapeutic Drug monitoring (TDM) (K) Drugs acting on the Organ —	25	Level 1, II	1, 2	2	1
Pharmacology	System:((K, S) Cardiovascular Renal Central Nervous System Endocrine Gastrointestinal Hematopoietic (haematinics, antiplatelets growth factors, anti coagulation etc) Musculo-skeletal (Anti-inflammatory drugs — non-steroidal, disease —modifying anti- rheumatic drugs, uricosurics and other drugs for treatment of gout, Analgesics) Dermatologicals Immunopharmaco- therapy (Biologicals; Immunomodulators)					
Chemotherapy I (Antimicrobials)	 Principle of selective toxicity; mechanism of action and Drug resistance (K) Antibacterial agents (K, S) Anti-mycobacterial drugs Antiviral Antiprotozoal drugs Antifungal drugs Antifungal drugs Anthelminthic dugs 	25	Level 1, II	1, 2	2	1

	 Cytotoxic therapy (antineoplastic drugs) (K, S) 					
Drug utilization	Principles of therapeutics Essential Medicines List and Programmes Rational Use of Medicines Rational Prescribing Prescription Writing; sources of poisons and drug information (K, S)	15	Level I,II, III	1, 2, 4	1	1, 3
Toxicology Pharmacovigilance	Definitions, classification, common poisons general principles of management; antidotes; management specific poisons (e.g. paracetamol; organophosphates, methanol etc) (K, S) Adverse DRs (definition, epidemiology, diagnosis, reporting and management), medication errors, spurious, substandard, falsely labeled, counterfiet (SSFC) medicines; drug interactions; drug-induced emergencies e.g anaphylactic reactions, angioedema malignant hyperthermia; emergency trolley etc (K, S)	20	Levels I,II.III	1, 2, 3	1	1, 3

2.4.11 Geriatrics

Domain	Specify topics, knowledge, attitudes & skills	% of course coverage	Learning objectives (using taxonomy)	Total Credit Units	Mode of delivery	Assessment Method
Introduction to Geriatric Medicine	Clinical evaluation of the geriatric patient; Comprehensive Geriatric Assessments (CGA); Introduction to end of life decision making; Introduction to palliative care. • Explain the concepts of multi-, inter-& trans-disciplinary team care; participate in team care (K) • Recognize the importance of atypical presentation of diseases in older adults (A/B) • Recognize that older adults often present with multi-morbidities (A/B, K). • Explain the domains in CGA (K) • Recognize the roles of other disciplines in CGAs (A/B). • Recognize the need for, and act appropriately when other specialist opinion(s) is/are required in the care of the elderly (A/B). • Perform medication reviews and medication reconciliations (S). • Explain and discuss the multi-faceted underpinning causes of disease in older adults e.g. social, psychological and cultural factors (K, S). • Recognize the limitations associated with hospital care for the elderly (A/B) • Demonstrate sensitivity in preventing hospitalization associated complications (A/B). • Discuss debates concerning advance care directives; recognize the need for advance care planning (S). • Recognize the importance of cultural nuances in discussions of whether to or not to resuscitate (A/B) • Demonstrate sensitivity in communicating with patients, care givers and colleagues (A/B, S)	14%	Levels 1-3	1	1-7	Mini-CEX, OSCE
Ageing	Anatomical changes associated with ageing; Biochemical changes associated with ageing; Physiological changes associated with ageing • & physiological changes associated with ageing (K) • Distinguish between normal ageing and disease (K, S)	14%	Level 1-2	1	5, 6	Mini-CEX, MCQs, SAQs

	Mild cognitive impairment, Delirium, Depression & Dementia; Deconditioning; Elder mistreatment; Falls; Frailty & Sarcopenia; Incontinence; Malnutrition; Pressure ulcers; Sleep disorders Barthel Index; Mini-Cog; Confusion Assessment Method; Mini Nutritional Assessment tool; Braden Scale	57%	Level 1-3	4	2-7	Mini-CEX, MCQs, SAQs, essay, DOPS, OSCE
Geriatric Syndromes & Common Tools for Geriatric Assessment	 Describe the spectrum of geriatric syndromes (K). Explain strategies to prevent and manage geriatric syndromes (K) Describe strategies to prevent &/or limit hospitalization-associated deconditioning (K) Demonstrate commitment to preventing hospitalization-associated deconditioning (A/B) Demonstrate understanding of the indications, uses, relevance & limitations of tools for geriatric assessments (K, A/B) Perform geriatric assessments, using the appropriate tools (S) 					
Geriatric Therapeutics	Appropriate use of medicines in the elderly; Prescribing; Drug interactions, Adverse drug reactions; Pharmacovigilance. • Explain pharmacokinetic and pharmacodynamic changes associated with ageing and how these impact on medication use in older adults (K) • Demonstrate appropriate prescribing and prescription writing skills (S) • Discuss drug-drug, drug-disease and drug-food interactions (S) • Discuss appropriate strategies to prevent drug interactions in older adults (S) • Discuss polypharmacy and peculiarities of polypharmacy in older adults (S) • Explain the principles of pharmacovigilance (K) • Recognize the need to appropriately identify and report adverse drug reactions (A/B) • Manage adverse drug reactions in older adults in collaboration with other relevant disciplines (A/B, S)	14%	Level 1-3	1	2, 3, 5	Mini-CEX, MCQs, SAQs, essay, OSCE

2.4.12 Emergency Medicine and Critical Care

Title	Specific Topics, Knowledge, Attitudes	% of Course Coverage.	Learning Objectives	Total Credit Units	Mode of Delivery	Methods of Assessment
Basic Organisation of Emergency Services	Understand common organizational structures of emergency medical services (EMS). [K] Learn the educational requirements and skill levels of various EMS providers. [K] Learn principles of EMS system operations. [K] Describe local, state and national components of EMS. [K] Demonstrate ability to use all elements of the EMS communication system. [K]	5%	1 – III	1	1-6.	MCQ
Emergency Admission and Triage	Learn principals of pre-hospital triage and emergency medical care delivery. [K] Discuss EMS pre-hospital care protocols. [K,S] Learn principals of in-hospital triage and emergency medical care delivery. [K] Learn basic principles of disaster management. [K] Learn basic concepts of mass casualties. [K] Learn basic concepts of disaster management. [K]	10%	I – III	2	1-7.	MCQ Essays
Acute Medical Presentations	Learn the pathophysiology, presentation, and management of acute conditions in the following specialties of Internal Medicine:[K] i. Cardiology ii. Dermatology iii. Endocrinology iv. Gastroenterology v. Haematology vi. Infectious Diseases vii. Neurology viii. Nephrology viii. Nephrology x. Rheumatology Assimilate general concepts of history taking and physical examination skills as it relates to acutely ill medical patients.[K,S] Demonstrate ability to systematically evaluate patients presenting to the emergency department.[K,S] Demonstrate ability to draw up an initial management plan for the acutely ill patient.[K,S]	20%	I – VI	4	1-7.	MCQ, Essay, OSCE Log Book
Management of the Critically III Patient.	Learn the pathophysiology of trauma, toxins, shock, sepsis, cardiac failure, and respiratory failure that affect critically ill patients.[K] Demonstrate the ability to rapidly identify and evaluate critically ill patients. [K,S] Learn the indications for admission into	20%	1 – III	4	1-7.	MCQ Essay OSCE

	different level of advanced care.[K]					
	Learn the general principles in the					
	management of critically ill patients.					
	[K]					
	Understand the etiologies and			4		
Cardio-	pathophysiology of cardiac arrest.[K]	20%	I – VI	4	1224567	MCQ,
		20%	1 – VI		1,2,3,4,5,6,7	7
pulmonary	Learn to recognize the dysrhythmias					Essay
Resuscitation	associated with cardiac arrest and their					OSCE
	treatment.[K,S]					Log Book
	Learn the American Heart Association					
	recommendations and develop skill in					
	the performance of standard					
	resuscitative procedures.[K,S]					
	Learn the principles of					
	pharmacotherapy and the routes and					
	dosages of drugs recommended during					
	cardiac arrest and following					
	resuscitation.[K]					
	Learn the indications for withholding					
	and terminating resuscitation.[K]					
Basic	Demonstrate ability to perform	15%	I - VI	3		
Procedures in	common procedural skills					
Emergency	including:[K,S]					MCQ
Medicine and	i. Gastric intubation,					
Critical Care	ii. Basic airway mnagemnet.					Essay
	iii. Placement of central venous					
	lines,					OSCE
	iv. Wound closure					
	v. Abscess incision and					Log Book
	drainage.					
	Learn basic ethical principles relevant			2		
	to emergency medicine and critical					
Ethics in	care.[K]	10%	1 – 111		1,2,3	MCQ,
Emergency	Apply ethical principles to specific					
Medicine and	patient encounters to assist in decision					Essay
Critical Care	making.[K,S,A]					
	Learn basic legal principles relevant to					
	emergency medicine and critical					
	care.[K]					
	Learn the similarities and differences					
	between legal and ethical principles					
	relating to emergency medicine and					
	critical care.[K]					

2.4.13 Clinical Haematology and Medical Oncology

Course title	Specific topics, knowledge, attitude and skills	Mode of delivery	% of course coverage	Learning objectives (Levels using taxonomy)	Total credit units	Assessment methods
BASIC HAEMATOLOGY	To describe and comprehend the physiology of Haemopoiesis.	1,2,3,4,5,6	5%	1,11	0.5	MCQs, ESSAYS
	To elicit symptoms and signs and make appropriate diagnosis of anaemia.	1,3,4,5,6	5%	1,11,111	0.5	MCQS, ESSAYS, CLINICALS /PRACTICALS
	To elicit symptoms and signs and make appropriate diagnosis of polycythaemia.	1,3,4,5,6	5%	1,11,111	0.5	MCQS, ESSAYS, CLINICALS /PRACTICALS
	To elicit symptoms and signs and make appropriate diagnosis of thrombocytopaenia/thrombocytosis.	1,3,4,5,6	5%	1,11,111	0.5	MCQS, ESSAYS, CLINICALS /PRACTICALS
	Discuss basic investigations and comprehend diagnosis of haematological diseases. FBC and peripheral film , ESR, , PT, PTTK and Bleeding Time (Including indications, contraindications and precautions of procedures; BMA and Trephine)	1,3,4,5,6	5%	1,11,111	0.5	MCQS, ESSAYS, PRACTICALS
HAEMOGLOBINOPATHIES EMPHASIS ON SICKLE CELL DISEASE	Outline the definitions, describe the epidemiology, explain the pathophysiology of crises, identify the clinical features, investigations, and outline the management.	1,3,4,5,6,7	30%	1,11,111	2	MCQS , ESSAYS, CLINICALS
MEGALOBLASTIC ANAEMIAS	Describe the epidemiology, explain the	1,3,4,5,6	15%	1,11,111	1	MCQS, ESSAYS, CLINICALS/

	pathophysiology, clinical features, list investigations, and participate in the management.					PRACTICALS
IRON DEFICIENCY ANAEMIA	Describe the epidemiology, causes and metabolism, clinical features, list investigations, and participate in the management.	1,3,4,5,6	10%	1,11,111	0.5	MCQS , ESSAYS, CLINICALS/ PRACTICALS
ANAEMIA OF CHRONIC DISEASE	Definition, list the causes, explain the pathogenesis, clinical features, outline investigations, and management	1,3,4,5,6	10%	1,11,111	0.5	MCQS , ESSAYS , CLINICALS
LYMPHADENOPATHY AND SPLENOMEGALY	Definition, list the causes, explain hypersplenism and hyposplenism, outline investigations and management	1,3,4,5,6	10%	1,11,111	0.5	MCQS, ESSAYS, CLINICALS
TOTAL UNITS					7	

Mode of delivery: Lectures-1, tutorials-2. Seminars-3. Clinical/practicals-4, self-directed learning-5, assignments-6, conference-7 Learning objectives: knowledge-I, comprehension and application-III, Analysis, synthesis and evaluation-III

2.4.14 Rheumatology

- 1. Structure and function of the musculoskeletal system
- 2. Classification of rheumatological diseases
- 3. Mono and polyarthritis
- 4. Connective tissue diseases
- 5. Inflammatory polyarthritis
- 6. Autoimmunity and autoimmune disorders
- 7. Degenerative arthritis
- 8. Back pain
- 9. Rational use of NSAIDs
- 10. Disease Modifying Antirheumatic Drugs (DMARD)
- 11. Biological agents
- 12. Crystal arthritis
- 13. Osteoporosis: risk factor, features, management and prevention
- 14. Systemic vasculitis syndrome

2.4.15 Infectious Diseases and tropical medicine

- 1. Sepsis: severity, complications, investigations, community acquired and nosocomial infections
- 2. Antimicrobial therapy: rationale. Effect of co-morbidities; antibiotic resistance.
- 3. Principles of microbiological investigations and interpretations
- 4. Prophylaxis: immunoprophylaxis and chemoprophylaxis
- 5. Acute infections.
- 6. Sepsis and shock. Toxic shock syndrome
- 7. Sepsis in the neutropenic patient
- 8. HIV/AIDS
- 9. Parasitic infections and infestations including malaria
- 10. Snake bites
- 11. Haemorrhagic fevers
- 12. Emerging and re-emerging infections

2.4.16 Psychiatry

- 1. Parasuicide: risk factors, evaluation
- 2. Acute psychosis: mental state examination, initial emergency management
- 3. Organic Brain Syndrome
- 4. Bereavement: stages, unusual grief reactions. Breaking bad news.
- 5. Depression: differential diagnosis, investigations, risk factors
- 6. Neurology-psychiatry interface
- 7. Bipolar disorders
- 8. Schizophrenia

2.4.17 Investigations

Aims:

Trained physicians of the programme should be competent and confident in selecting, requesting appropriately and interpreting accurately reports of commonly used investigations required for diagnosis and management of patients with general medical problems. The internist should be able to describe to the patient the nature of the investigation, why it is required and the implications of the expected results.

For the following investigations, Junior Resident should ascertain the indications, contra-indications and complications; recognize and interpret abnormalities which require immediate action.

- FBC and ESR, CRP
- Urea and electrolytes
- Plasma glucose, Glucose tolerance test
- Cardiac markers
- Liver function tests
- Thyroid function tests
- Amylase
- Calcium and phosphate
- Coagulation studies
- Arterial blood gases
- Lipids
- Serology
- Auto antibodies
- ECG and Echo: normal patterns, common abnormalities
- ECG 12 lead
- Exercise ECG
- Holter monitoring
- Echocardiography
- EEG and EMG
- Chest X-Ray
- Abdominal X-Rays
- Contrast studies
- CT scan/MRI
- Ultra sound scans
- Doppler scan
- VQ scans: pattern of common abnormalities
- Radioisotope scans. Thyroid, bone
- Pulmonary functions tests, indications, pattern of abnormalities
- Microbiological samples types, indications, collections, microbial sensitivity and specificity, special tests for multi-drug resistant tuberculosis. Interpretation.
- Tumor markers

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2.4.18 Special Procedures and investigations

Aim: For the following procedure/ investigations, Junior Resident should be able to recognize the indications for; complications of and accurately interpret reports from investigations in medical management:

Catheterization and coronary angiography

Other vessel angiography

Transoesophagael echocardiogram

Pharmacological stress testing and nuclear cardiology stress testing

Upper and lower GI endoscopy

Colonoscopy

Contrast studies in GI urinary tract

Endoscopic retrograde cholangiopancreaticography

Imaging

Pleural aspiration

Pleural biopsy

Bronchoscopy

CT/MRI scans

Bone marrow examination

DTPA renal scans

Renal biopsy

Liver biopsy

Skin biopsy

2.4.19 Practical Procedures

For the following investigations, Junior Resident should be confident and competent to perform these common practical procedures required for diagnosis and management of patients with general medical problems. For each procedure, the Junior Resident should know the indications and contraindications and be able to:

- 1. Explain procedures to patient/relatives, obtain consent
- 2. Prepare the equipment
- 3. Prepare the patients
- 4. Prepare the skin including administration of local anaesthetic agent
- 5. Patch test, prick test, skin snips, cryotherapy, KOH preparation
- 6. Arrange after care monitoring
- 7. Safely dispose of disposable equipment
- 8. Document the procedures in the records and record complications
- 9. Label samples and complete forms
- 10. Consult past procedural order
- 11. Record them

Junior Resident should be competent and confident to perform:

- An FCG
- Arterial blood sampling
- Elective DC
- Insertion, pressure measurement and care of CVP line
- Use a temporary pacing box and external pacing machine
- Pleural and ascetic fluid aspiration
- Intestinal drain, insertion and management
- Nasal support, ventilation
- Knee joint aspiration
- Protoscopy
- Lumbar puncture

2.5 Assessment

This should be formative and summative in nature.

2.5.1 Formative-

This assessment is performed at the training institutions and aims at monitoring the resident's knowledge and skills during the period of training, thereby forming the basis of feedback mechanism. This form of assessment is achieved using the following instruments-

i. Annual evaluation form

ii. Log book

This should assess knowledge, skills and attitudes through the following methods:

- 1. Evaluation by superiors, peers, juniors and patients.
- 2. Logged performances/records
- 3. End of rotation assessment: clinical, MCQs, essays, summary assessment etc
- 4. Resident portfolio (desirable, not mandatory)
- 5. End of first and second year assessment summary, assessment, log book, evaluation, clinical (traditional or OSCE) and written papers.

The result of (5) should be communicated to the Faculty secretary annually. Log book of cases and procedures must be brought to the final examination.

2.5.2 Summative- This form of assessment consists of the part I fellowship examination

Part 1 FMCP Examinations

a. Entry requirements:

The eligibility criteria for admission to sit the part I examination are that the candidate must have:

- 1. Passed the primary examination or has been exempted from it. In either case, the appropriate evidence must accompany the application form. Exemption from primary examination must have been granted at least 12 months before applying for the part I examination.
 - 2. Have undergone mandatory training in clinical internal medicine for not less than 24 calendar months in the approved (accredited) training programme after passing the primary examination -as detailled under sections 2.3,2.3.1.2.3.2.2.3.3 and 'Rotations' under appendix III. Evidence or certification of training provided by the programme director of the department's institution must accompany the application. Certification must provide details of clinical experience by rotation through various units of internal medicine. Time credits may be granted for periods of training in the non-accredited institutions on application to the Faculty Board. Such application should be sent with documentary evidence of training and procedures performed.
- Be certified by the Head of Department and a fellow of the Faculty, other than the Head of Department, as being of good behavior and a proper and fit person to be admitted into the Faculty as a Fellow.

4. Attended at least one revision course organized by the Faculty not more than the preceeding year

The invitation to submit applications for the examination is usually advertised in the national dailies and can also be obtained from the college web site (www.npmcn.edu.ng).

b. Structure of Part 1 Examinations:

The Part 1 examination shall be held twice a year. It shall consist of three parts in a staggered pattern—written, clinical and viva-voce.

1. Written Examination

This consists of two written papers. Paper 1, a 3-hour multiple choice with a mix of true/false, one best answer and matching types objective paper containing 200 stem questions in all aspects of internal medicine.

Those who are found eligible proceed to Paper II and the Clinical examination.

Paper II is a 3-hour essay type question paper covering different areas of the discipline.

2. Clinical Examinations

OSCE

The Objective Structured Clinical Examination is one clinical session in which the skills, knowledge and attitudes, history taking and other goals and objectives in the syllabus will be fully tested within 120 - 150 minutes.

Distribution of marks and consideration for a pass:

Written papers

MCQ	150
Essay	100
OSCE	400

The MCQs shall consist of a mix of true/ false, one best in five, and matching types. Essay questions shall include pathophysiology, procedures and diseasemanagement, including tropical diseases

c. Conditions for a pass

For the candidate to pass, he or she must:

- i. Obtain an overall pass mark of 325 or more
- ii. Obtain a mark of 200 or more in the clinical examination.

3.0 APPENDICES

APPENDIX I- TRAINING AND ASSESSMENT FOR PRIMARY FMCP

The mode of instructions is mainly in the form of self-directed learning. The scope of the examination will cover basic physiology, biochemistry, pathology, pharmacology and applied anatomy. In addition, knowledge of principles and practice of general Internal Medicine will be required.

Requirements for primary examination

- Basic Medical degree from an MDCN accredited institution
- Certification by a Fellow or current Head of Department
- Full registration by MDCN

Structure of the primary examination

- 100 Multiple Choice Questions
 - Best of Five options
 - True/False type
 - Matching

Conditions for a pass:

- A pass score of minimum of 50%
- Primary Exam validity 5 years

APPENDIX II- CURRICULLUM DEVELOPMENT/REVIEW PROCESS

The previous curriculum was circulated to all the subspecialty chairmen and members of the court of examiners for their inputs. Thereafter, at the Faculty training of the trainers workshop held in 2014, participants from all training institutions made useful contributions. A harmonization committee was set up that finalized the review process. Upon completion of the task by the harmonization committee, the draft document was submitted to the Faculty board of internal medicine and thereafter presented to docimology committee. The final document was subsequently approved by the senate of the college after passing through three readings.

It was agreed that curriculum should be reviewed every five years.

APPENDIX III: COURSE CREDIT WEIGHING OF SYLLABUS

	Co	ntact Hours ar	nd Credit Poin	ts for Part	1 FMCP							
	Junior Residency 24 months											
Posting	Duration (Months)	Contact Lecture Hours/Week	Contact Clinical Hours/Week	Total Contact Hours/ Week	Total contact lecture hrs/course duration	Total contact clinical hrs/course duration	Credit Units					
*Endocrinology	3	13	28	41	156	336	20					
*Gastroenterology	3	13	28	41	156	336	20					
*Cardiology	3	13	28	41	156	336	20					
*Neurology	3	13	28	41	156	336	20					
*Nephrology	3	13	28	41	156	336	20					
*Respiratory	3	13	28	41	156	336	20					
*Dermatology	3	13	28	41	156	3 36	20					
**Emergency	1	13	28	41	52	112	7					
†CPT/Rheu/Inf Dx/Cli Haem/Ger	1	13	28	41	52	112	7					
††Laboratories	2	13	28	41	104	224	14					
**Radiology	1	13	28	41	52	112	7					
**Psychiatry	1	13	28	41	52	112	7					
†††Compulsory Update Course		35					5					
Total	24	178	308	451			167					

^{*}Candidates are expected to rotate through any six.

^{**}Candidates must rotate through this course

[†]Candidates are expected to rotate through at least one of the four.

^{††}Candidates are expected to spend 2 weeks each in: Medical Microbiology and Parasitology; Chemical Pathology; Morbid Anatomy; Haematology.

^{†††}Compulsory Update course runs over a 2-week period during one of the rotations

BASIS FOR CREDIT LOAD

LECTURE HRS:

2 HR Lecture/day x5 days=10 cont HRs 2HSCase review /week= 2 cont. HRs 1HR Journal review/week=1 cont. HR Total lecture hours= 13/week

CLINICAL CONTACT HRS: Clinic 4hrsx 2 a week (8) + wd round 4 hrsx2 (8) + call duty 12 hrs/week (12) –TOTAL CLINICAL .CONTACTL HRS =28HRS

ROTATIONS FOR JUNIOUR RESIDENCY IN INTERNAL MEDICINE COVERING 24 MONTHS

MANDATORY ROTATIONS I

POSTING	DURATION	TOTAL DURATION
1 CARDIOLOGY	TO SPEND 3 MONTHS EACH IN ANY	18 MONTHS
2.DERMATOLOGY	SIX OF TH SEVEN POSTINGS	
3.ENDOCRINOLOGY		
4.GASTROENTEROLOGY		
5.NEPHROLOGY		
6.NEUROLOGY		
7. PULMOMOLOGY		

MANDATORY ROTATIONS II

POSTING	DURATION	TOTAL DURATION
1.EMERGENCY MEDICINE	TO SPEND ONE MONTH IN EACH	3 MONTHS
2.PSYCHIATRY	POSTING	
3.RADIOLOGY		
4.LABORATORY MEDICINE	TO SPEND 2 WEEKS EACH IN	2 MONTHS
	CHEMICAL	
	PATOLOGY,HAEMATOLOGY,MEDICAL	
	MICROBIOLOGY AND MORBID	
	ANATOMY POSTINGS	

OPTIONAL/ELECTIVE ROTATIONS

AREA/SPECIALTY/SUBJECT	DURATION	TOTALDURATION
1. CLINICAL PHARMACOLOGY &	TO SPEND ONE MONTH IN ANY	I MONTH
THERAPEUTICS	ONE OF POSTING	
2. CLINICAL HAEMATOLOGY		
3. GERIATRICS		
4. INFECTIOUS DISEASES		
5. RHEUMATOLOGY		

APPENDIX IV - ANNUAL PROGRESS REPORT

To be completed in Accredited institutions in approved proforma and submitted along with registration documents for exainations (see below)

NATIONAL POSTGRADUATE MEDICAL COLLEGE OF NIGERIA

Indicate
Associate
Fellow's No.





ANNUAL PROGRESS REPORT ON REGISTERED RESIDENTS ASSOCIATE FELLOWS OF THE COLLEGE

The completed form must reach the Training and monitoring (TAM) office of the College before 31st of January of immediate post assessment year.

This section below to be completed by Associate fellows

SECTION A.

4.9	SSESSMENT PERIOD /YEAR:
1.	Name of Resident: Surname Middle name Other name
2.	Accredited training institution: 3. Training department:
4.	Date Residency Training began
5.	Fellowship Examination Passed:
	a) Primary Fellowship: Yes/No/Exempted Dateb) Part One Fellowship: Yes/No/Exempted Date
5.	Date of Fellowship examination in view:
	a. Part One Part Two
7.	(a) Ongoing research topic in your department in which you are involved

report writing		
) Name of Project Coordinator		
(List (a) – (c) for each study	on extra sheet if more than o	ne)
ontinuing Professional developme (a)	nt:	
Conferences attended in the current year	Date/Venue	Title of paper Read
* To attach certificate of attendance		
* To attach certificate of attendance (b)		
	Date/venue	Name of organizing body
(b)	Date/venue	Name of organizing body
(b)	Date/venue	Name of organizing body
(b)	Date/venue	Name of organizing body
(b) Update Courses attended	Date/venue	Name of organizing body
(b) Update Courses attended *To attach certificate of attendance eclaration by the Resident:		Name of organizing body y knowledge and belief accurate in every det

SECTION B

This section should be filled by supervising Consultants or Trainers

Clinical postings satisfactorily completed in the current year under view

Clinical		Г						Obje	ectiv	e As	sess	men	it						Name & signature
postings	Duration	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	of supervising consultants
		Cognitive Knowledge	Clinical Judgment	Ability to cope with emergencies	Level of Motivation	Capacity for nde pendent learning	Competence in Writing essay	Case presentation	Competence in writing	Competence in Sourmal review	Teaching	Res earch	Administrative/ Management		* Responsibility	Relationship with Colleagues	Doctor/Patient Relationship	thical& Profes sional Conduct	(minimum of two)
					Global assessment statement														

Rating Scale Score over 10

REMARKS • Encompassing punctuality, availability concern for patient, perseverance and problem solving . Encompassing reliability initiative and commitment



A doctor considered to be below average in the global assessment should not be eligible to sit for the Fellowship Examination for the

current year.

Period of strike action or leave of absence should not be counted as part of training.

A score of "D" in Ethical and Professional conduct during the posting should attract a sanction and this should reflect in the global assessment statement.

 In course assessment examinations conducted by the training

Examination		Scores	Remark
MCQ			
WRITTEN			
CLINICALS	SHORT		
CASES:	LONG		
OSCE			
VIVA VOCE			

12.	CERTIFICATION BY DEPARTMENTAL TRAINING COMMITTEE		
	We hereby certify and attest that Dr.		
(a) Satisfactorily/ unsatisfactorily completed the year under review, in the Residency Training Pro			
	specialty ofof this Institution.		
	(b) Obtained the Grades stated above and passed/failed the departmental continuous assessment examination		
	appropriate for his/her current level of Residency Training.		
13.	RECOMMENDATION (Mark as appropriate)		
1. All considered, this resident is/is not making satisfactory progress. This resident may/should not proc			
	phase of training.		
	2. This resident needs remedial attention to:		
	Cognitive Knowledge Yes/No Technical Skill Yes/No Communication Skills Yes/No Ethical behaviour Yes/No		
	3. This resident should specifically repeat the training period in		

Trainer	s:
1.	Names
	Signature & Date
	Fellowship Qualification & Date obtained
2.	Names
	Signature & Date
	Fellowship Qualification & Date obtained
3.	Names
	Signature & Date
	Fellowship Qualification & Date obtained
4.	Names
	Signature & Date
	Fellowship Qualification & Date obtained
5.	Names
	Head of Department:
	Signature & Date
	Fellowship Qualification & Date obtained
	Official Stamp:

If more than five consultants please attach additional sheet

14.	To be completed by the Chief M	ledical Director or Director of Training Institution
	This institution has taken due no	ote of DR
	and the required action has been	ı taken.
		Signed
		Chief Medical Director
		or Director of Training
Thi		ng Institution should return the endorsed form back to the Head of the Department he Officer in charge of Training and Monitoring (TAM) of the NPMCN by Head of ment.
15.	To be completed by the Secretar	ry Faculty of
	The Faculty Board has taken d	ue note of the performance of: DR
		Signed
		Faculty Secretary
16.	To be completed by the College The report has been duly noted	Registrar Signed
		College Registrar