

FACULTY OF OTORHINOLARYNGOLOGY-HEAD AND NECK SURGERY.

NATIONAL POSTGRADUATE MEDICAL COLLEGE OF NIGERIA

MISSION STATEMENT

To train Otolaryngologists-Head and Neck Surgeons who will excel in clinical duties, community health service, education and research.

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PREFACE

DESCRIPTION OF RESIDENCY PROGRAMME IN ORLHNS

The programme is a 6-year course which commences in an accredited institution after passing the Primary Fellowship examination of the Faculty. The training is in two parts, the junior and the senior residency programmes.

The **Junior Residency** training is a 3 year programme, which consists of 18 months rotation in ORLHNS of which one month will be spent in Audiology Immersion, 3 months rotation in Accident and Emergency, 6 months rotation in General Surgery, 2 months rotation in either Plastic Reconstruction Surgery or Maxillofacial Surgery, 2 months rotation in Neurosurgery, 2 months rotation in Cardiothoracic Surgery, 2 months rotation in Ophthalmology and one month rotation in Anaesthesia. On completion of the posting, candidate can apply to sit for the Part 1 Fellowship Examination in ORLHNS, submit the log book and must have **acquired** the **minimum surgical skills** approved by **the Faculty Board** before the candidate will be eligible to sit for this exam.

The senior residency training is a 3 year programme to be spent in ORLHNS in an accredited institution. The training commence after passing the Part 1 Fellowship Exam. Residents in this cadre will continue to improve their clinical and surgical skills, teach juniors in areas of surgery and patient care and exercise management skills. The Senior Residency is divided into two segments: first year of Otorhinolaryngology-Head and Neck Surgery and a Final two years for super specialty training. In these last two years candidates can choose to continue with General Otorhinolaryngology-Head and Neck Surgery or branch out into one of the following: Otology, Rhinology Allergy, Head and Neck Surgery, or **Paediatric** and

Otorhinolaryngology. After completion of the 3 years senior residency training rotation and submission of the dissertation to the College, the candidate can apply to sit for the Part II Fellowship Examinations. Candidate must also submit the log book and must have acquired the minimum surgical skills approved by the Faculty Board before the candidate will be eligible to set for this exam.

Candidates may also choose to undertake the Postgraduate Doctor of Medicine in ORLHNS (Postgraduate MD). Those who choose this route will defend their Postgraduate MD thesis at least 30 months after Passing Part I examination, and before sitting for Part II Final Fellowship examination. Those who have successfully defended their postgraduate MD thesis will only sit the oral examination in their Part II Final Fellowship examination (The requirement of Part II Fellowship dissertation is deemed to have been fulfilled by the Postgraduate MD Thesis).

GUIDELINES FOR USE

- 1. Upon registration as an Associate Fellow in an ORLHNS Residency Programme, each Resident must obtain a Log Book at the current price. It is his/her responsibility to ensure that it is kept safe and intact throughout his/her period of training.
- 2. It is the Resident's responsibility to enter each case s/he manages and/or operates on in the appropriate column with date and the Supervising Consultant must sign each entry singly. No block signing of procedures.
- 3. Supervising Consultant in each surgical rotation must assess the operative skill of the resident according to the criteria listed in the log book for surgical procedures/clinical skills **performed** by the Resident.

- 4. When s/he has completed his/her posting and meets the **minimum criteria set by the Faculty Board on surgical skill acquisition in all the rotation and on level of training,** it is his/her responsibility to present himself/herself to his/her Consultant/Trainer.
- 5. The Consultant will then assess the Resident and complete the column in respect of his/her own judgment as to the level of knowledge and competence demonstrated by the Resident and sign his/her name in the column provided.
- 6. It is important that the assessment exercise takes place continuously throughout the posting. Both Resident and Consultant must avoid a situation where this Log Book is completed in a rush in the last days of posting.
- 7. If there are competency areas identified, taught and assessed in a particular training institution that are not contained in the print out, the programme coordinator should feel free to add on such areas in the blank pro-forma included.

Secretary, Faculty Board of ORLHNS.

Chairman, Faculty Board of ORLHNS.

AIM

The aim of the programme is to train aspiring surgeons in Otorhinolaryngology-Head & Neck Surgery so as to produce specialists who will be well equipped to practice as competent Ear Nose Throat, Head & Neck Surgeons.

LEARNING OBJECTIVE:

The objective of the programme is to train a highly qualified Specialist/ Consultant Otorhinolaryngologist-Head and Neck Surgeon competent to manage all ORLHNS disorders at various levels. The Trainee by the end of the programme shall:

- Be able to, independently, manage ORLHNS problems to the highest level of competence.
- Be able to set up, organize and manage surgical services in the district/regional/tertiary hospitals.
- Provide consultancy services where ever is needed, and therefore will increase access to quality ORLHNS care,
- Teach residents, medical officers, medical students and other health care providers in ORLHNS.
- Engage in research activities

ADMISSION REQUIREMENT:

Candidates must have a qualification registrable by the Medical & Dental Council of Nigeria.

Candidates must have served the pre-registration year/years in their own country or in any other country accepted by the Medical & Dental Council of Nigeria and must have been fully registered. Candidates must have had at least one year of post-graduation experience, which should be of general clinical duties acceptable to the College.

COURSE DURATION:

A minimum of 6 years made up of:

- 3 years for the Junior Residency (Part I)
- 3 years for the Senior Residency (Part II) is considered adequate (comprising one year of General ORLHNS and 2 years of super-specialty training)

COURSE STRUCTURE:

The course is structured into:

- 1. Primary
- 2. Part I

3. Part II (with or without MD prior to Part II Final Fellowship Examination)

Course Content:

COURSE CONTENT FOR PRIMARY IN ORLHNS

This is essentially a Pre-Residency training. It shall consist of the following Basic Sciences subjects.

ORL 910 Anatomy (6 Credit Units)

Head and Neck 2.1.1 Osteology of the skull, jaws and cervical vertebrae The Scalp The Face Topography of the Neck The root of neck (Thoracic Inlet) Anatomy of the vessels and nerves of the Head and Neck The lymphatic drainage of the Head and Neck The oral cavity and contents Anatomy of the Pharynx, Larynx, Trachea and Oesophagus Infratemporal and pterygopalatine fossae Temporomandibular joint The Orbit and its contents The Nose and paranasal Sinuses The Auditory apparatus The major Salivary glands Thyroid and Para thyroids 2.1.2 Developmental Anatomy

Development of the Pharynx, Larynx, Trachea, Oesophagus, Oral Cavity, Nose and Sinuses. Development of the Ear (External, Middle Ear Cleft, Inner ear), Face and major vessels of the Head and Neck in relation to congenital anomalies of the Ear, Nose and Throat.

2.1.3 Neuro-Anatomy

The brain- surface anatomy and major divisions, cranial nerves meninges, venous sinuses and cerebral vessels. Brain stem and its centres and connections. Anatomy of circulation of the cerebrospinal fluid. Essentials of development of brain in relation to ENT Autonomic nervous system.

2.1.4 Thorax:

Anatomy of:

- Thoracic wall and diaphragm
- The Thoracic cavity heart and lungs
- The Tracheobronchial tree and oesophagus
- 2.1.5 Abdomen

Anatomy of the abdominal wall

Gross anatomy of abdominal viscera

2.1.6 Radiologic Anatomy Plain and contrast radiography of the head, neck, thorax and upper gastro-intestinal tract. Ultrasound scan Computerized tomography scanning and Magnetic Resonance imaging (MRI), PET Scan and Interventional radiology.

2.1.7 Histology:

Microscopic structure of normal tissues

Intercellular Anatomy

Basic principles of Histochemistry

Brief introduction to Electron Microscopy

Nasal and Paranasal Sinuses

External, Middle and Inner Ear

Oral cavity – Pharynx, Larynx, Oesophagus, Tracheobronchial tree, Salivary glands, Thyroids and Parathyroids.

ORL 911 APPLIED PHYSIOLOGY: (INCLUDDING BIOCHEMISTRY, CHEMICAL PATHOLOGY AND PHARMACOLOGY) (6 Credit Units)

- 2.2.1 General Physiological Principles:
 - Structure of Living Matter Biological interaction
 - The living cell, functions and changes in its mechanism
 - Function of nucleoproteins in the integration of the cell as a unit of living matter
 - Energy Changes in the living system:
 - Thermodynamics of the living organism and its potential energy status
 - Oxygen utilisation of the living cell
 - Heat production and Heat loss. (Basal metabolism, specific dynamic action, regulation of body temperature)
 - Energy transformation
 - Homeostasis
 - General Considerations in Water, Electrolytes and Acid-Base Balance:
 - Distribution of water and electrolytes in extra and intracellular spaces of the body.
 - Brief survey of biological transport of water and solutes
 - Water and electrolytes balance

Causes and effects of dehydration and oedema Sodium and Potassium Metabolism

- Acid-Base Balance
 - PH Regulation:
 - pH of the body fluids and buffer systems of the body Respiratory and metabolic acidosis and alkalosis as encountered in surgical practice.

- Enzymes and Co-Enzymes
 - Effects of enzymes in intermediary metabolism
 - General aspects of metabolism of carbohydrates, lipids and proteins and nucleoproteins
- General principles of nutrition in surgery including parenteral nutrition, vitamins, folic acid, vitamin deficiencies
- Mineral Metabolism
 - Iron. Calcium/Phosphate/ Magnesium, Vitamin D and Parathyroid Hormones
- Effects of Physical Agents:
 - Radiation
 - Hypothermia
 - Hyperthermia
 - Hyperbaric Oxygen
- Principles of Electronics

ORL 912 Systematic Physiology (3 Credit Units)

2.3.1 Haemodynamics

- Flow Basic principles of Cardio-Vascular Physiology
- B.P. Changes in Hypertension, Hypotension, Shock, Syncope
- Venous circulation and venous pressure
- Haemorrhage Clotting mechanism
- 2.3.2 Auditory Apparatus:
 - Functions of External, Middle and Inner Ear
- 2.3.3 Respiratory System
 - Physiology of the Nose and Paranasal sinuses
 - Physiology of the Larynx
 - Pulmonary ventilation and control
 - Protective mechanism of the lungs
- 2.3.4 Mouth, Pharynx and Oesophagus
 - Mechanism of deglutition
 - Oesophageal function

- 2.3.5 Special Senses
 - Taste and smell
- 2.3.6 Applied Physiology or Muscles
 - Electromyography
- 2.3.7 Endocrines
 - Pituitary, Thyroids and Parathyroids
 - Adrenals Steroids, Corticosteroids and their actions
 - Metabolic and Endocrine response to surgery
- 2.3.8 Nervous System
 - Consciousness and higher integrated functions.
 - Sensation, Motor System, Pyramidal and Extra pyramidal systems, maintenance of muscle tone.
- 2.3.9 Physiology of Pain

ORL 913 Pharmacology (3 Credit Units)

- 2.4.1 General Principles of Pharmacology
 - Route of Administration, Absorption, Distribution and Excretion of Drugs
 - Mechanisms of Drug Action
 - Dose Effect relationship, biological assay
 - Factors Modifying Drug Effects:
 - Age, Body Weight, Route of Administration, Timing, Distribution, Excretion, Environmental and Genetic Factors, Drugs interaction
 - Drugs Toxicity
 - Development, Evaluation and Control of Drugs: Clinical Trial

2.4.2 Specific Classes of Drugs

- Anaesthetic agents, Antibiotics, Steriods, Chemotherapeutic agents
- Drugs action on the autonomic nervous system
- Choline and anti-choline drugs: Sympathetic and Adrenergic Drugs.

- Drugs acting on the cardiovascular system
- Antituberculous, Antihelminthic and Antiamoebic Drugs
- Cancer Chemotherapy
- Antiretroviral therapy

ORL 914 General Pathology (3 Credit Units)

This shall be largely concerned with general pathology, General principles underlying disease process: Inflammation, Trauma, Degeneration, Repair, Hypertrophy, Hyperplasia, Blood coagulation, Thrombosis, Embolism, Infarction – Ischaemia, Neoplasia, Oedema, Principles underlying tissue replacement.

ORL 915 Microbiology (3 Credit Units)

Routine diagnostic methods, identification of Bacteria, Viruses (HIV, HPV and EBV) and other organisms of surgical importance, Common parasitic and fungal diseases in the tropics.

Principles of sterilization and disinfection

Principles of immunology, toxic antibodies, allergy: the immune diseases

Methods of action of antibodies

ORL 916 Chemical Pathology (3 Credit Units)

Basic principles of fluid and electrolyte balance Blood chemistry

Liver metabolism: hepatic function tests, jaundice, detoxication Kidney:

Principles of urinalysis Tests for secretory function Renal handling of Na+ and K+

ORL 917 Haematology (3 Credit Units)

Blood Groups Haemoglobin Genotype Blood Transfusion Indications Complications Common Haematological diseases Anaemia Sickle cell disease Leukaemia Disorders of coagulation

PART I COURSE:

This is divided into 2 clusters of 12 months and 6 months duration respectively for the ORLHNS I & ORLHNS II and 18 months of surgical specialty training.

ORL 918 ORLHNS I:

12 months in Otorhinolaryngology-Head and Neck Surgery. Candidates should acquire basic skills in examination of patients as well as perform basic operations in ENT such as: Removal of foreign bodies in the Ear Nose and Throat

Tonsillectomy

Adenoidectomy

Drainage of mastoid abscess

Nasal operations

Para-nasal sinus operation and other head and neck operations Drainage of abscesses in the head and neck

SURGICAL SPECIALTY TRAINING

- 18 months of rotation in the following related specialties
- ORL 919 2 months in Ophthalmology
- ORL 920 2 months in Neurosurgery
- ORL 921 2 months in Cardiothoracic surgery
- ORL 922 6 months in General Surgery
- ORL 923 3 months in Accident and Emergency medicine

ORL 924	2 months in Maxillofacial or Plastic and
	reconstructive surgery
ORL 925	1 month in Anaesthesia

ORL 926 ORLHNS II:

This should consist of ORLHNS Training of 6 months at a relatively more advanced nature.

Log book should be obtained at the inception of Part I ORLHNS to document operative surgery and other activities.

PART II: FELLOWSHIP IN ORLHNS with or without super-specialty certification

Duration: 3 Years Post Part I

After passing the Part I examination, the candidate must spend three years acquiring higher surgical/clinical skills in ORLHNS in an accredited institution. Skills must be acquired in the following surgical/Clinical procedures. Laryngectomy and Voice rehabilitation Neck dissection Pharyngectomy Maxillectomy (partial and total) Surgery of the Salivary glands All types Sinus Surgery including Functional Endoscopic Sinus Surgery (FESS) Plastic operations in ORLHNS Mastoid Surgery and Middle & Inner Ear Surgery Microlaryngeal surgery and Laser Surgery Panendoscopy and Bronchoscopy

ROUTINE FOR RESIDENTS

- Daily morning ward rounds by the Trainee and evening ward rounds by trainee on call
- Weekly teaching ward rounds with the Consultant
- Attendance at outpatient clinic with the Consultant available for advice and discussion
- Weekly tutorials with the Consultant
- At least twice a week operation session
- Monthly clinic-mortality and clinical audit meetings with the Consultant
- Monthly journal club meeting with the Consultant
- Monthly Clinico-Histopathology Seminars
- Monthly Clinico-Radiology Sessions
- Monthly seminars in specific topics with Consultants
- Weekly head and neck oncology joint clinics
- Trainees will conduct clinical research and publish a paper with the Consultant
- The College will organize regular skills workshop for Trainees

COURSE CREDIT UNITS FOR JUNIOR RESIDENCY TRAINING IN OTORHINOLARYNGOLOGY-HEAD AND NECK SURGERY

- One (1) hour of Lecture/Tutorial/Seminar every week for 15 weeks (Semester Equivalent) = 15hours =1 credit unit
- Three (3) hours of Clinical exposure/skills acquisition every week for 15 weeks (Semester Equivalent) =45hours = 1 credit unit
- Clinical exposure/Skills acquisition:
 - 8 hours regular work day for five working days= 40 hours a week
 - 40 units of call duty per month (40 X 8 hours) = 320 hours (or 320/4 = 80 hours a week)
 - Total exposure per week = 40 + 80 = 120 hours
- Residency Program is a continuum except for annual leave; hence 52 Weeks less 4 weeks annual leave = 48 working weeks = 3 semester equivalent

POSTINGS	DURATION IN MONTHS	CONTACT LECTURES HRS/WK	CONTACT CLINICALS HRS/WK	CREDIT UNITS
ORL 918 ORLHNS I	12	5	120	16+128 =144
ORL 919 OPTHALMOLOGY	2	5	120	3+21 =24
ORL 920 NEUROSURGERY	2	5	120	3+21 =24
ORL 921 CARDIOTHORACIC SURGERY	2	5	120	3+21 =24
ORL 922 GENERAL SURGERY	6	5	120	8+64 =72

ORL 923 ACCIDENT AND EMERGENCY	3	5	120	5+32 =37
ORL 924 MAXILLOFACIAL	2	5	120	3+21 =24
SURGERY OR PLASTIC				-24
AND RECONSTRUCTIVE SURGERY				
ORL 925 ANAESTHESIA	1	5	120	1+11 =12
ORL 926 ORLHNS II	6	5	120	8+64 =72
TOTAL	36			433

A minimum of 433 credit units over a period of 36 months in the appropriate postings will make a candidate eligible to sit for the Part I Fellowship Examinations.

COURSE CREDIT UNITS FOR SENIOR RESIDENCY TRAINING IN OTORHINOLARYNGOLOGY-HEAD AND NECK SURGERY.

- One (1) hour of Lecture/Tutorial/Seminar every week for 15 weeks (Semester Equivalent) = 15hours =1 credit unit
- Three (3) hours of Clinical exposure/skills acquisition every week for 15 weeks (Semester Equivalent) =45hours = 1 credit unit
- Clinical exposure/Skills acquisition:
 - 8 hours regular work day for five working days= 40 hours a week
 - 40 units of call duty per month (40 X 8 hours) = 320 hours(or 320/4 = 80 hours a week)
 - Total exposure per week = 40 + 80 = 120 hours
- Residency is a continuum except for annual leave; hence, 52 Weeks less 4 weeks annual leave = 48 working weeks = 3 semester equivalent

POSTINGS	DURATION IN MONTHS	CONTACT LECTURES HRS/WK	CONTACT CLINICALS HRS/WK	CREDIT UNITS
ORL 930 OTOLOGY I	3	5	120	5+32 =37
ORL 931 RHINOLOGY I	3	5	120	5+32 = 37

ORL 932 HEAD AND NECK SURGERY I	3	5	120	5+32 =37
ORL 933 PAEDIATRIC ORLHNS I	3	5	120	5+32 = 37
ORL 934 GENERAL ORLHNS	24	5	120	32+256 = 288
OR ORL 935 OTOLOGY II OR				
ORL 936 RHINOLOGY II AND ALLERGY				
OR ORL 937 HEAD AND NECK SURGERY II				
OR				

ORL 938 PAEDIATRIC ORL			
ORL 999 PART II DISSERTATION	24		12
TOTAL			448

A minimum of 448 credit units over a period of 36 months in the appropriate postings will make a candidate eligible to sit for the Part II FINAL Fellowship Examinations.

Where a candidate has difficulties fixing into appropriate accredited centres in Nigeria, postings in accredited centres acceptable to NPMCN outside the country will be countenanced for ORL 935, ORL 936, ORL 937, and ORL 938.

GUIDELINES FOR VETTING OF APPLICATION FORM FOR PART I AND PART II IN THE FACULTY OF ORLHNS

Below are the guidelines for preliminary screening in Faculty of Otorhinolaryngology.

- 1. Candidate must be an associate fellow and in good standing.
- 2. Must be presented for examination on a platform of an accredited training institution.
- 3. Must submit along with the examination form his training Log Book.
- 4. Must submit at the end of January of every year. Annual report on the trainee duly signed by ORLHNS trainers in the department or the unit of ORLHNS.

In addition to the above

- 5. The submitted application form must be screened for
 - i. Verification of facts
 - ii. Mandatory postings,
 - iii. Date of postings.
 - iv. Verification of postings and signatures
 - v. Verification of fellow who signed the form.
- 6. Logbook verification
 - i. Verification of entries of procedures.
 - ii. Verification of cognitive programme and courses

For part I candidate.

Must show evidence that he/she has attended the mandatory courses before sitting for Part I

- i. ORL 927 Basic Surgical Skill Course. 2 Credit Units
- ii. ORL 928 Temporal Bone Dissection Course. 2 Credit Units
- iii. ORL 929 Endoscopic Sinus Surgery Course. 2 Credit Units
- iv. PMC 901 Advanced Trauma Life Support (Surgical based Residents) 2 Credit Units

Where, for logistic reasons, a candidate is able to attend two of the three courses he/she would be allowed to sit the examinations on the proviso that he/she attends the third course before sitting Part II examinations.

For part II candidate

i. PMC 951 Research Methodology 2 credit Units

- ii. PMC 952 Health Resources Management 2 credit Units
- iii. PMC 953 Ethics in Clinical Practice 2 credit units

TRAINING ASSESSMENT:

1. Primary (entrance examination)

The assessment will be in form of examinations and portfolio for:

- 1. Part I
- 2. Part II

PRIMARY: This examination is in multiple choice question formats with questions spread across all aspects in basic medical sciences with emphasis on aspects related to Otorhinolaryngology-Head and Neck Surgery.

Primary Fellowship Examination in Otorhinolaryngology-Head and Neck Surgery (Multiple Choice Questions)

TEST BLUE PRINT 2021

200 questions

SUBJECT	SUBJECT	SUB-SPEC	IALTY				TOT AL
ANATOMY (with emphasis on Head and Neck) 60	Gross anatomy (ear, nose, pharynx, larynx, thyroid gland, neck)	Embryol ogy 6	Histol ogy 6	Osteolog y 6	Neurolo gy 6	Organs/t horax/ abdomen 6	60
PHYSIO/phar macology 40	30 General 6	Respirat ory 6	Specia 1 senses 14	Cardiova scular 6	Pharmac ology 8		40
BIOCHEM 30	General 6	Carbohy drate 6	LIPID S 6	Nucleic acid 6	Body fluids 6		30
PATHOLOGY 60	General 24	Morbid anatomy 8	Chem. Path 6	Haematol ogy Blood transfusi on 10	Immunu ology 6	Microbio logy 6	60

OTHERS 10	Lab investig ations 2	Clinical tests/ measure ments 4	ENT Clinic al proced ures 4				10 (GRA ND TOT AL 200)
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LEVEL OF DIFFICULTY OF TEST ITEMS

The determination of the level of difficulty of test items shall be based on the principles of the Bloom's Taxonomy of Educational objectives. The focus of the questions will be to test the ability of the candidate in application, analysis and synthesis (3, 4, 5 below) which should constitute at least 80-90 percent of the questions. Questions that test knowledge or recall will not be used at this level

1. Knowledge Recall, or recognition of terms, ideas, procedure, theories, etc.

2. Comprehension Translate, interpret, extrapolate, but not see full implications or transfer to other situations, closer to literal translation

3. Application Apply abstractions, general principles, or methods to specific concrete situations.

4. Analysis Separation of a complex idea into its constituent parts and an understanding of organization and relationship between the parts. Includes realizing the distinction between hypothesis and fact as well as between relevant and extraneous variables.

5. Synthesis Creative, mental construction of ideas and concepts from multiple sources to form complex ideas into a new, integrated, and meaningful pattern subject to given constraints.

6. Evaluation: candidates make judgements about value of ideas, items and materials.

MODIFIED ANGOFF Standard setting method will be used for determining the Pass mark in each segment of the examination.

PART I:

- Formative assessment by log book
- Evaluation through annual report on each Resident by the training Department.
- Attendance at prescribed courses.

Examination: This will be in 3 parts:

1. Written

One paper of MCQ, one essay paper in principles of General Surgery and ORLHNS and a third paper in operative surgery and surgical pathology in ORLHNS.

LEVEL OF DIFFICULTY OF TEST ITEMS

The determination of the level of difficulty of test items shall be based on the principles of the Bloom's Taxonomy of Educational objectives. For the theoretical components of the examinations, including the MCQs and Essay questions, the focus of the questions will be on the ability of the candidate in application, analysis and synthesis (3, 4, 5 below) which should constitute at least 80-90 percent of the questions. Questions that test knowledge or recall will not be used at this level

1. Knowledge Recall, or recognition of terms, ideas, procedure, theories, etc.

2. Comprehension Translate, interpret, extrapolate, but not see full implications or transfer to other situations, closer to literal translation.

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4. Analysis Separation of a complex idea into its constituent parts and an understanding of organization and relationship between the parts. Includes realizing the distinction between hypothesis and fact as well as between relevant and extraneous variables.

5. Synthesis Creative, mental construction of ideas and concepts from multiple sources to form complex ideas into a new, integrated, and meaningful pattern subject to given constraints.

6. Evaluation: candidates make judgements about value of ideas, items and materials.

A Clinical Examination in General Surgery. A Clinical Examination consisting of long cases in ORLHNS. Objective Structured Clinical Examination in ORLHNS

An oral Examination in ORLHNS.

There should be external examiner (s) in General Surgery in addition to ORLHNS Examiners.

NPMCN ORLHNS Part 1 Fellowship Examinations in Otorhinolaryngology-Head and Neck Surgery

Theory Papers

Paper 1: MCQ TEST BLUEPRINT

			Domain of the Test			
Specialty	Total	General	Operative	Surgical	OSCE	Remarks
	questions	principles	surgery	pathology		
Cardiothoracic	6	4	2			
Ophthalmology	6	2	2		2	
Neurosurgery	6	2	2		2	
Accident/Emer	10	4		2	4	
Plastic/Maxilo	12	4	2	2	4	
General Surgery	20	6	6	4	4	
Sub total	60	22	14	8	16	
Audiology/Hearing						
Aid	10	6			4	
Otology	30	14	4	6	6	
Rhinology	30	14	4	6	6	
Laryngology	30	14	4	6	6	
Allergy	10	4		4	2	
Endoscopy	6		2	2	2	
Head/Neck	20	6	6	4	4	
Surgery						
Speech/Language	4	2		2		
Sub Total	140	60	20	30	30	
Grand Total	200	82	34	38	46	

The determination of the level of difficulty of test items shall be based on the principles of the Bloom's Taxonomy of Educational objectives. For the theoretical components of the examinations, including the MCQs and Essay questions, the focus of the questions will be on the ability of the candidate in application, analysis and synthesis (3, 4, 5 below) which should constitute at least 80-90 percent of the questions. Questions that test knowledge or recall will not be used at this level

Paper 2: General Principles

a. General Surgery

2 questions

b. Otorhinolaryngology-Head and Neck Surgery 3 questions (one each in otology, rhinology, head and neck surgery, or Paediatric ORLHNS)

Paper 3: Operative Surgery and Surgical Pathology 5 questions (distributed evenly over otology, rhinology, head and neck surgery, or Paediatric ORLHNS)

Clinicals and Orals

General Surgery: Long Case Otorhinolaryngology-Head and Neck Surgery: Long Case OSCE Orals (distributed evenly over otology, rhinology, head and neck s

(distributed evenly over otology, rhinology, head and neck surgery, or Paediatric ORLHNS)

A candidate is deemed to have PASSED if he passes in all areas/parts of the examination including a PASS in CLINICALS.

A Candidate is deemed to have FAILED if he FAILS the Clinicals; his passing the other areas/parts of the examination notwithstanding.

MODIFIED ANGOFF Standard setting method will be used for determining the Pass mark in each segment of the examination.

PART II

Formative assessment will include

- The log book
- Mandatory Faculty and College courses in Research Methodology and Management Course

Examinations

- a. Dissertation Defence
- b. Oral examination I (Radiology films and histopathology pots specimen)
- c. Oral examination II (instruments and operative surgery in ORLHNS)
- A candidate is deemed to have passed if he passes ALL the 2 component parts (Defence of Dissertation and Viva Voce).
- Where he/she successfully defends the dissertation but fails the Viva component, he is REFERRED in the component he failed.
- Where he/she did not successfully defend the dissertation but passes the Viva component, he is REFERRED in the component he failed.
- He/she is expected to resit that component at the next Fellowship examinations. The date of PASS is the date he/she passed the referred component of the examination.

- Candidates who choose the MD route, and successfully defended their thesis, will be deemed to have satisfied the dissertation component of the Part II Final Fellowship Examination. Hence, they will only sit the Orals component of the examination.
- MODIFIED ANGOFF Standard setting method will be used for determining the Pass mark in each segment of the examination.

LEARNING METHODS: This will be through the following:

- Clinical apprenticeship
- Hands-on training in clinic, wards and theatre
- Formal lectures, tutorials, case presentations, seminars
- Self-directed learning, research and reading
- Senior residents to teach and supervise junior residents
- College and faculty courses and workshops (some of which are mandatory)
- Attendance at medical conferences

ORL 918 JUNIOR OTORHINOLARYNGOLOGY-HEAD AND NECK SURGERY ROTATION (144 Credit Units)

OBJECTIVES

- 1. Learn and master Basic Ear /Nose/Throat/Head and Neck examination using otoscope, head mirror, head light, pharyngeal/laryngeal mirrors, nasal and ear specula and rigid/flexible endoscopes.
- 2. Learn and acquire basic knowledge of audiological/vestibular tests.

- 3. Learn about the imaging of the Ear, Nose, Throat, Head and Neck and attend joint radiology/ENT seminars.
- 4. Learn about histopathological specimen and attend joint histopathology/ENT seminars.
- 5. Teaching of Clinical interns.
- 6 Learn, assist and perform basic E.N.T operations.

SURGICAL SKILLS EXPECTED TO BE ACQUIRED DURING ROTATION.

	MINI	MUM
RI	EQUIREM	ENTS
Removal of foreign bodies in the external ear	A(10)	P (5)
Aural examination and dressing with microscop	be A10	P10
Myringotomy under LA in Adults	A5	P5
Myringotomy under GA in children	A5	P5
Myringoplasty	A5	P5
Excision of preauricular sinus	A5	P5
Excision of post auricular cyst	A5	P5
Removal of foreign bodies in nose	A10	P10
Antral Lavage	A10	P10
Intranasal antrostomy	A10	P10
Diathermy to turbinates/SMR	A5	P5
Partial turbinectomy	A5	P5
Nasal polypectomy	A10	P10
Septal surgery	A5	P5
T & A in children	A10	P5
Tonsillectomy in adults	A10	P5
Tracheostomy in adults	O5 /A5	5P5
Tracheostomy in children	A10	P5
Removal of foreign body in larynx	A5	P5
Pharyngoscopy Rigid/Flexible	A10	P5
Direct Laryngoscopy Rigid/Flexible	A10	P5
Oesophagoscopy	A10	P5

Branchial cyst excision Removal of superficial lesion	O2/A2 A5	2 P5 P5
Drainage of peritonsillar abscess	A5	<i>P5</i>
Drainage of Retropharyngeal abscess	A5	P5

WHERE

0	=	OBSERVE
A	=	ASSIST
Р	=	PERFORM
A/P	=	EITHER ASSIST OR PERFORM

AUDIOLOGY ROTATION (EMBEDDED IN ORLHNS I) OBJECTIVES /SKILLS EXPECTED

Resident should be able to:

- 1. Understand and appreciate the need for standardization and calibration in auditory testing.
- 2. Perform and interpret accurate air and bone conduction hearing thresholds.
- 3. Understand the theory of masking techniques and perform.
- 4. Understand the theory, perform and interpret impedance audiometry with special reference to measurement of middle ear pressure and identification of stapedial reflexes.
- 5. Perform and interpret speech audiometry.
- 6. Understand the theory, interpret and to be able to perform evoked response audiometry
- 7. Understand the theory, interpret and to be able to perform Otoacoustic emission audiometry.
- 8. Understand the difficulties and the needs of the hard of hearing.
- 9. Understand the full range of assistive devices for the hard of hearing, and their application.
- 10. Understand the indications for prescribing a hearing aid.
- 11. Understand the full range of electronic hearing aids and the advantages and disadvantages of each type.
- 12. Understand hearing aid batteries and be able to make ear mould.
- 13. Understand (have participated in) the hearing aid selection procedure.
- 14. Understand (have participated in) and appreciate the value of auditory counselling.
- 15. Understand the risk factors for neonatal hearing loss.
- 16. Understand neonatal screening programs.
- 17. Understand the steps to be taken when hearing loss is suspected in a young child.

- 18. Be aware of the full range of support programs available to the hard of hearing in Nigeria.
- 19. Understand the theory and construction of cochlear implants, together with patient selection and post implantation auditory assessment and counselling.
- 20. Be aware of and sensitive to the attitude of the Deaf Community as it relates to intervention by the medical profession. by visiting the Deaf school.
- 21. Understand the theory, perform and interpret vestibular assessment results.
- 22. Understand the theory of Speech and Language disorders and the various rehabilitation modalities.

SKILLS	EXPECTED	TO	BE	ACQUIRED	DURING			
ROTATION								
Pure Tone Audiometry			O5	P10				
Speech Audiometry			O5	P10				
Tympanometry			O5	P10				
Otoacousti	c Emission		O5	P10				
ABR			O5	P10				
Ear Mould	Making		O5	P10				
ENG			05	P10				

ORL 919 OPHTHALMOLOGY (24 Credit Units)

Objectives

1. To acquire ophthalmology skills in the management of ENT related diseases

2. Acquiring knowledge/skills in the clinical management and diagnosis of various ophthalmology diseases.

Skills	to be acquired	Minimum Requirements	S
1.	Ophthalmoscopy	P1	0
2.	Removal of FB	A5	
3.	Removal of Pterygium	A5	
4.	Evisceration	A5	
5.	Enucleation	A5	
6.	Cataract Extraction	A5	
7.	Repair of Laceration of the E	Cyelid P5	
8.	Cannulation of the nasolacrin	nal duct A5 P10	0

ORL 920 <u>NEUROSURGERY (24 Credit Units)</u> OBJECTIVES

- 1 To acquire neurosurgical skills helpful in the management of ENT related diseases
- 2 Acquiring knowledge/skills in the clinical management and diagnosis of various neurosurgical diseases

Skills expected to be acquired

	1 1		
1.	Exploratory burr holes	A5	Р
2.	Use of operating microscope in		
	neurosurgical procedures	A5	Р
3.	Lumbar Puncture	А	P5
4.	Craniotomy	A5	Р
5.	Laminectomy	A5	Р
6.	Shunts	A5	Р
7.	Excision of Myelomeningoceles	A5	Р

ORL 921 CARDIOTHORACIC SURGERY (24 Credit Units)

OBJECTIVES

- 1. Assessment of cardiovascular and respiratory systems
- 2. Understand the interaction of cardio-pulmonary disease on medical and surgical treatment of otolaryngology head/neck patients

Skills expected to be acquired

(1)	Bronchoscopy / Oesophagoscopy	A5	P5
(2)	Techniques of arterial/venous access	A10	
(3)	Thoracentesis	A5	P5
(4)	Tube Thoracostomy Physiologic monotony	technic	ues O ₂
	saturation, Cardiac output	P5	
(5)	Pleural Biopsy	A5	
(6)	Lung Biopsy	A5	
(7)	Mediastinoscopy	A5	
(8)	Thoracotomy	A5	

ORL 922 <u>GENERAL SURGERY</u> (72 Credit Units) OBJECTIVES

- 1. Acquire Basic Surgical Skills
- 2. Acquire skills in Surgical procedures
- 3. Learn the rudiments of pre-operative and post-operative care
- 4. Learn to work as a team

Skills expected to be acquired Minimum Requirements

ORIDS	expected to be acquired withinitian Ke	yun en	icits
1	Incision making/ Skin suturing/Knot tying	A5	P10
2	Selection of abdominal incisions	A5	P10
3	Laparotomy incision and closure of		
	abdominal wall	A5	P10
4	Excision of Skin/ Subcutaneous Lesion	A5	P10
5	I & D Subcutaneous abscess	A5	P10
6	Suture of Laceration	A5	P10
7	Excision of benign/malignant breast lesion	A5	P10
8	Biopsy of enlarged nodes cervical, axillary,	inguina	ıl
	submandibular	A5	P10
9	Endoscopy of Digestive System	A5	P10
	Proctoscopy / Sigmoidoscopy		
	Oesophagoscopy Gastroscopy Anoscopy		
10	Gastric Surgery	A5	P10
	Pyloroplasty, Gastroenterostomy		
	Closure of Perforated Ulcers		
11	Intestinal Colostomy	A5	P10
	Resection and anastomosis of small bowel	A5	P10
	AP resection	A5	
	Lysis of Adhesions	A5	
	Appendectomy	A5	P5
	Excision of hemorrhoid	A5	P5
12	Liver		
	Incisional Liver Biopsy, Local Excision		
	of Liver Lesion,	A5	

NPMCN, Faculty of Otorhinolaryngology, Residency Training Hand book

13	Biliary Tract		
	Cholecystostomy Cholecystectomy		
	Exploration of common bile duct	A5	
14	Pancreas		
	Whipple procedure	A5	
15	Laparotomy for acute abdomen, Splenectomy	A5	P5
	Abdominal sepsis, Drainage of intra abdomen sepsis	A5 F	P 5 17
	Hernia and abdominal wall	A5	P10
	Repair of inguinal, femoral and ventral hernia		

ORL 923 <u>ACCIDENT & EMERGENCY SURGERY (37</u> <u>Credit Units)</u> OBJECTIVES

- 1. Acquire skill in patient reception/Principles of Triage
- 2. Stabilize and care for critically injured and ill patients
- 3. Acquire knowledge technical skills and decision making in the management of critically ill patients
- 4. Exposure to trauma and polytrauma.

Skills expected to be acquired

Minimum Requirement

1.	1. Maintenance of airway including orotracheal, nasotracheal		
	Intubation, tracheostomy	A5	P10
2.	Techniques of Cardiac/Trauma life support	A5	P10
3.	Techniques of arterial/venous access and ven	ous	
	cut-downs	A5	P10
4.	Acquire skills on skin suturing techniques and	d	
	cast application	A5	P10
5.	Initial management of severely injured patient	its,	
	burns patients, corrosive ingestion	A5	P10
6.	Head injuries	A5	P10
7.	Initial management of Hand infections Woun	d	
	debridement and suturing	A5	P10
8.	Preoperative management of intestinal obstrue	ction, op	en and blunt
	abdominal injury intra-abdominal sepsis,	head i	njury, neck
	injuries and chest injuries A5	P10	
9.	Initial management of simple limb fracture jo	int dislo	cations, care
	of compound fractures A/P	A5	P10
10	. Emergency management of urinary reter	ntion, h	ematemesis,

epistaxis red eye, FB in nose, ear and throat A/P A5 P10

ORL 924 <u>PLASTIC/RECONSTRUCTIVE SURGERY OR</u> <u>MAXILLOFACIAL (24 Credit Units)</u>

OBJECTIVES

Comprehension of skin lesions benign and malignant Wound revision and closure acquire skills in optimal incision Various method of wound approximation Wound healing problems e.g. Immunocompromised

Skills	Skills expected to be acquired		Requi	irements
1	Anticipation of surgical manouvr	es, gentle		
	traction on tissues etc		A5	P5
2	Excision of skin tumours		A5	P5
3	Skin topical care and preparation	of		
	wound closure		A5	P5
4	Variety of wound closure design	of incision		
	Z plasty, Flaps		A5	P5
5	Split thickness skin graft		A5	P5
6	Plating of facial fractures jaw win	ing	A5	P5
7	Debridement of wounds		A5	P5
8	Local treatment and dressing of b	dressing of burns, eschar removal		
	Occlusive Treatment and dressing		A5	P10
9	Reconstruction of cleft lip		A5	P5
	Reconstruction of cleft palate		A5	P5

ORL 925 ANAESTHESIA (12 Credit Units) OBJECTIVES

- 1. To be able to assess, determine suitability and fitness of a patients booked for general anaesthesia
- 2. Learn the process and management of general, regional and local anaesthesia. Appreciate the shared airway.
- 3. Learn General, regional and local Anaesthetic Agents: injectable and gaseous and their complications

Anaesthetic Complications

Skills expected to be acquired

(1)	Preoperative anaesthetic assessment	A5	P5
(2)	Induction of Anaesthesia	A10	
(3)	Endotracheal Intubation	A5	P5
(4)	Monitoring of patients under General A	Anaesthesia	
		O5	A5
(5)	Reversal of Anaesthesia	A5	
(6)	Postoperative monitoring of a patient		
	recovering from Anaesthesia	A5	

COMPETENCE BASED GRADING OF PERFORMANCE

GRADES OF PERFORMANCE SCORES

PERFORMANCE	DESCRIPTION
GRADE	
Α	Adequate knowledge; Performs skill without supervision;
	can reproduce skill on request;
	five to six points on Affective domain.
В	Adequate knowledge; performs skill with minimal supervision;
	reproduces skill with minimal guidance;
	four to five points on Affective domain.
С	Adequate knowledge; performs skill with supervision;
	barely reproduces skill;
	3-4 points on Affective domain.
D	Inadequate knowledge; performs skill with supervision;
	Unable to reproduce skill; 2 - 3 points on Affective domain.
Ε	Gross inadequate knowledge; unable to perform task;
	unable to reproduce skill; 1-2 points on Affective domain.
AF	FECTIVE DOMAINS FOR ASSESSING CANDIDATES
DURING T	RAINING:
	1 Attendence to work

- 1. Attendance to work
- 2. Punctuality
- 3. Prompt delivery of assignments
- 4. Group work and interaction
- 5. Obeying instructions
- 6. Respect for patient care

GENERAL TRAINING FOR JUNIOR RESIDENTS

OBJECTIVES Education course

Basic surgical skill course is a compulsory course for all residents before Part I fellowship examination. It is advisable that resident attend the course shortly after starting residency training or before going on general surgical rotation.

Temporal bone dissection course, Audiology course and Endoscopic sinus surgery course are compulsory courses for all residents before sitting for Part 1 fellowship examination respectively.

Research

Residents must key-in into a research work in collaboration with his/her Consultant.

Conferences

Residents are to attend local and International Conferences especially as related to ORLHNS and Surgery.

The Faculty specifically identifies **ORLSON Conference**, and it is a **mandatory** that Residents should attend.

Residents must present at least **one scientific paper** at the conference before sitting for part I fellowship examination.

POSTGRADUATE DOCTOR OF MEDICINE IN ORLHNS

MD by Course work and Thesis

This optional pre-fellowship program is available for Associate Fellows of the National Postgraduate Medical College who are currently at the Senior Resident level. Applicants will be expected to complete the online application available on the College website and in addition submit a 500 word Concept note summarizing their Research proposal and a Compact signed by the prospective supervisor.

MD by Thesis only

This option is available to interested Fellows who passed their part 1 examination, completed their part II training but dissertation was not a prerequisite for their part II examination. Younger Fellows who do not meet the MD by publication criteria can also apply. Candidates are to complete the online form and submit a 500 word Concept note and a Compact signed with their prospective supervisor. Those who did not complete the NPMCN post part I training will be required to do remedial courses.

MD by Publication

This option is available to senior Fellows of the National Postgraduate Medical College who have been in good financial standing for at least 10 years. Prospective candidates would have contributed maximally to postgraduate medical education primarily in the area of Part 2 Resident Dissertation supervision for any of the listed Colleges or for University Ph.D programs, evidenced by 5 successfully defended dissertations. In addition the candidates would be accomplished medical researchers who have authored a minimum of 5 original research articles available in Pubmed in a focused narrow area as lead or corresponding author. Fellows of the West African College of Physicians and the West African College of Surgeons with 15 years Post Fellowship who meet the above can also apply.

FACULTY OF OTORHINOLARYNGOLOGY HEAD AND NECK SURGERY MD PROGRAMME COURSE CODES

COLLEGE BASED COURSES

PRE- PART 1 COURSES

- PMC 901 Advanced Trauma Life Support (Surgical based Residents) 2 Credit Units
- POST PART 1 COURSES
- PMC 951 Research Methodology 2 credit Units
- PMC 952 Health Resources Management 2 credit Units
- PMC 953 Ethics in Clinical Practice 2 credit units MD COURSES
- PMC 994 Medical Education 2 credit units
- PMC 995 Advanced Research Methodology 2 credit units
- PMC 996 Advanced Health Resources Management 2 credit units
- PMC 997 Assessments and Examination Methods 2 credit units

SYNOPSES OF COLLEGE BASED M.D. COURSES MEDICAL EDUCATION PMC 994

This course is designed for medical and dental resident doctors. The need for doctors, involved with teaching in the medical school and postgraduate medical training to have training in teaching is widely recognized. The skills in Medical Education course has been designed to meet this need. The course is aimed at resident doctors who are new to teaching and at Fellows with years of experience who would like an update on current best practice and a greater understanding of the basic principles. The course recognizes that, with appropriate help, all teachers, even those with considerable experience, can improve their skills in teaching. The topics to be taught are, standard setting in educational assessment; assessment of clinical skills; threshold concepts in medical statistics and evidence based practice; numeracy issues in learning about research; mapping and revising the learning and teaching of research; e-learning and blended in medical education; problem based learning; programme development; educational; computer communication networks; community-institutional relations; reproducibility of result; patient simulation; databases, factual; clinical decision making; selection of medical students.

ADVANCED RESEARCH METHODOLOGY PMC 995 OBJECTIVE

To facilitate acquisition of basic knowledge and necessary skills for research in Medicine and Proposal/Dissertation writing.

COURSE CONTENT

Definition, Spectrum and Types of Health Research Design; defining Research problems; Setting Objectives; Statistics and Research; Methods; writing Research Proposals; (Planning, Protocol Development and Report Writing); Good Clinical Practices and Clinical Trials; Role of Computer in Medical Research (EPI Info and SPSS) Literature review; Use of Physical and Virtual Library; Use of Internet; Search Engines; Systematic Reviews and Meta-analysis; Ethical considerations in medical research. Clinical Governance; Writing –Up; presentation and Defense of Dissertation Faculty Based Group Discussion on Research Proposal (Practical Group Session); Evidence Based Health Care; Statistical Methods (Summary, Inferences and Interpretation); Basic Principles and Method of Writing Papers for Publications Practical Sessions on Processing of Proposal and Presentation to the College.

ADVANCED HEALTH RESOURCES MANAGEMENT PMC 996

OBJECTIVE

To facilitate acquisition of knowledge and necessary skills required for management of health resources in institutions and for programme

COURSE CONTENT

Principles and application of Management; Strategic Management; Health Care Planning; Health Policy formulation and evaluation; Health Resources mobilization; Health Resources allocation; Human Resources Management; Organization; Monitoring and Evaluation of Health Services; Performance Management; Sustainable Development; Problem Solving and Decision Making skills; Emotional Intelligence; Leadership; Management of Change; Risk Management, Legal Aspect of Medical Practice; Financial Management; Material Resources Management; Quality assurance in health and equity in health; Public/Private Partnership; Case studies/Scenarios.

ASSESSMENT AND EXAMINATION METHODS PMC 997

Multiple Choice Questions and Objective Tests; Oral Examinations; Patient Management Problems; The long clinical case; the objective structured long examination record' (OSLER), the short clinical case; objective structured clinical examination (OSCE); objective structured practical examination (OSPE); objective structured picture examination (OSPicE); workplace-based assessment; mini-CEX (mini-Clinical Evaluation Exercise); direct observation of procedural skill (DoPS) and Multi-source feedback (MSF); Simulated Patients; Observed Clinical Situations; Ensuring safe and effective patient care through training; Establishing and maintaining an environment for learning; Teaching and facilitating learning; Enhancing learning through assessment; Supporting and monitoring educational progress; Guiding personal and professional development; Continuing professional development as an educator; use of standardized patient (SP) encounters; Data gathering technique (history and physical examination); Interpersonal communication; Clinical management

(diagnostic strategy and treatment plan); Professional documentation (post encounter note or PEN); Checklists; Patient Simulators.

FACULTY BASED COURSES:

Candidates may choose any of the following Faculty Based Courses. It is advised as a guide for candidates to choose a course in the specialty where he/she intend to spend the last one year of Senior Residency. The title of candidate's thesis is expected to also fall in line with candidate's choice.

ORL 941 Advanced Otolaryngology /Head and Neck Surgery 2 Credit units

ORL 942 Advanced Otology 2 Credit units

ORL 943 Advanced Rhinology 2 Credit units

ORL 944 Advanced Laryngology / Head and Neck Surgery 2 Credit units

ORL 945 Advanced Paediatric Otorhinolaryngology 2 Credit Units

Seminars and Thesis are compulsory for candidates pursuing MD with Course Work

ORL 998 Seminar 6 credit units

ORL 999 Thesis/Dissertation 12 credit units

COURSE SYNOPSES

ORL 941 Advanced Otolaryngology/Head and Neck Surgery 2 credit units

This is a course that takes care of general

otorhinolaryngology. The course content incorporates knowledge on all basic Ear, Nose and Throat, Head and Neck diseases. The global Otorhinolaryngologcal disease epidemiology and management (Medical and Surgical) are covered. Histopathology, Radiology and audio logical tests/procedures are covered.

ORL 942 Advanced Otology 2 Credit

This is a subspecialty course with focus on the study the Ear, its related diseases, management and rehabilitation procedures. The study of temporal bones, skull base, Otological and neurotological diseases, relevant audio logical studies(Audiometry, Tympanometry, Otoacoustic Emission, Automated Brain Response Audiometry etc) and rehabilitation are covered .Surgeries of the External, Middle, Inner Ears, Base of the skull and facial nerves are components of the course. The recent advances in this field should also be thought.

ORL 943 Advanced Rhinology 2 Credit

It is a subspeciality course in Nose and paranasal sinuses and its diseases. The Histology including through knowledge of the Osteomeatal complexes, Nasal bones, sinuses, skull base are important.

The Management of the Rhinological disorders such as Infections, Trauma, Allergies, Benign/Malignant tumours, Endoscopic Sinus Surgeries and its complications including recent advancements in the field are inherent component of this course.

ORL 944 Advanced Laryngology/Head and Neck 2 Credit This is a study of airways, Voice and food passages. The related diseases and its management are inherent component of the course. Rehabilitative concepts and methods for voice and post-surgical measures to improve the quality of life are important. Infections, Trauma (including foreign bodies), tumors (Benign/Malignant), voice disorders.

ORL 945 Advanced Paediatric Otorhinolaryngology 2 Credit Units

Admission Criteria for NPMCN Resident Doctors

- 1. Associate Fellows of the College who have been admitted into the residency program.
- 2. Passed the NPMCN Part 1 fellowship examination in the Faculty of ORLHNS.
- 3. Any other qualification deemed equivalent to NPMCN Part 1 and acceptable to the Senate of the College.

The program to be undertaken in a nearby approved center and not necessarily the one the resident is employed.

The seminars which carry 3 units each; and will be presented and graded in the local training center.

Faculty courses will be examined centrally by Faculty

College based courses will be examined by College.

Current Residents who may have had their proposals accepted may seamlessly migrate to the MD program if they so desire but the first defense will be at least 15 months after Senate approval of the program

Admission Criteria for Resident Doctors of other Postgraduate Medical Colleges

These Resident Doctors may be admitted provided that before starting the MD program they would have passed the compulsory College courses applicable before Part 1 [ATLS] and any compulsory Faculty courses at that level

Nature of Thesis

- 1. A recommendation of 50,000 to 100,000 total word count for MD thesis
- 2. Candidate may publish aspects of the work before defense in a manner similar to other PhD programs
- 3. Arrangement of the other structures to be similar to College Part II dissertation
- 4. Successful Defense to take place at least 6 months before final fellowship exam
- 5. Dissertation component of Part II to-be waived for successful MD defenses
- 6. Binding colors as determined by College

DUTIES / ROLE OF SUPERVISORS FOR COLLEGE MD PROGRAMME.

1. To sign application letters for Residents.

The College has developed a research compact with each MD candidate. Please ensure the candidate is working in your field or a field you qualify and are ready to supervise. You will be required to review the candidate's concept paper and work plan and if you are satisfied, you will be expected to sign the research compact with the candidate.

2. To sign Proposals and assist with ethical approval. To work with the candidates and help transform his / her concept paper to a workable proposal. This proposal will be handled like the Fellowship proposal- sent to assessors and if approved, you will supervise the candidate through data collection, analysis and write up for thesis defense. Please note that candidates with Part II proposals previously accepted by the College and who may wish to use such for the MD programme will only be requested to attach a letter of acceptance of proposal by the College.

3. To sign Progress reports every semester.

The experience with the residency programme has shown that the residents are a bit slow in presenting their proposals. To guard against this, the supervisors will be expected to present a report each semester to help monitor the progress of residents. This report will be initiated by the MD candidate and sent to the College through the supervisor.

4. Will be required by the College to serve as coordinator for the programme in their centers.

Each department will appoint one of the supervisors as the Departmental Coordinator. The College will appoint one of the Departmental Coordinators as Center Director. The Center Director will relate with all Departmental Coordinators and report on center and departmental activities at the training center to the College.

5. Will be required to liaise with the Centers Director and Departmental Coordinators on seminar presentations and scoring of same along the guidelines provided by the College. The Departmental Coordinators will report to the Center Director on seminar presentations done in the department.

6. Will be allowed to witness the MD thesis defense as observers only. Supervisors are usually not allowed to attend Fellowship defense but you will be allowed to attend the MD as observers.

7. You are to encourage candidates to go for Faculty and College based courses.

The course work for the MD programme consists of one (1) Faculty based course and four (4) College based courses. Residents not running the MD programme will be at liberty to attend the Faculty courses. These courses will be held every Wednesday with the College courses alternating with the Faculty courses, each candidate will be required to present a seminar to the others in the Faculty (for the Faculty course) and all the MD candidates (for the College based courses). A pass will be required for both the Faculty courses (in an examination conducted by the Faculty) and seminar presentations to all MD candidates.

8. To encourage the institutions to allow the candidates to attend courses. Supervisors will be expected to encourage all the MD candidates to attend the Annual Scientific Conference and All Fellows Congress (ASCAF) and other professional association conferences and to encourage the Institutions to sponsor such candidates.

Supervisor/Candidate Compact

Purpose of the compact

The compact between MD candidates and their Supervisors enables their relationship to be open and predictable. The work should be jointly designed by the supervisor and the candidate taking their time in relation to other things into consideration, in order for the research to be completed within the stipulated time. Though the success of the MD programme is not guaranteed by this Compact.

The Persons listed below have gone into a Compact to carry out this MD research programme.

(Name of Candidate) Faculty: Otorhinolaryngology-Head and Neck Surgery

(Name of Supervisor) Faculty: Otorhinolaryngology-Head and Neck Surgery

Duties and responsibilities of the Supervisor(s)

 (1) The Supervisor should familiarize the candidate with the current rules applying to MD programme at the host training institution.
 (2) The Supervisor should strive to provide the appropriate working conditions for the candidate.

(3) The Supervisor should commit to regularly and professionally advise the candidate and should also commit to attending meetings regularly about the work in progress of the candidate, taking into consideration the work plan and the work schedule.

(4) The Supervisor should encourage the candidate to work independently and also support the candidate by allowing access to his patients, medical students and residents. He should also provide access to scientific environments (national and international), by introducing her/him to working groups and scientific networks, by encouraging her/him to take part in seminars, workshops and conferences, by helping her/him to prepare presentations, by providing her/him with information on possibilities to publish articles and by helping her/him in the writing process.

(5) The Supervisor should support the candidate regarding her/his career plan and should mention possibilities for further disciplinary and interdisciplinary qualification.

(6) The Supervisor should assess the work submitted by the candidate promptly and in a neutral way.

(7) If there are any disputes with the candidate, the supervisor should accept arbitration with the Court of Examiners.

Duties and responsibilities of the Candidate

(1) The candidate should produce a detailed and structured work plan and work schedule and submit to the supervisor for approval. (S)he must inform the supervisor if there are changes made to the work plan or schedule.

(2) The candidate must get permission from the supervisor to attend specific courses related to the programme.

(3) The candidate must regularly report on the work in progress to the supervisor(s). The report (approximately 1-page long) should contain a description of the achievements since the last report or since the start of the MD programme, the overall progress on the research, and the participation to lectures, conferences, guest lectures, and specific workshops. In addition, the candidate must submit part of the results (e.g. chapter of the research work, draft of article) to the supervisor(s) following the work plan and the work schedule.

(4) The candidate must strive to present her/his scientific results to the scientific community by publishing articles in peer-reviewed journals and by presenting these results at conferences.

The persons signing this Compact agree to comply with the principles of good scientific practice and ethical guidelines. Signature: Signature:

Name of Candidate: Name of Supervisor:

Date: Date:

Attachment: -Work plan Work Schedule

ACADEMIC REGULATIONS FOR POSTGRADUATE DOCTOR OF MEDICINE (MD)

ACADEMIC SESSION: An academic session consists of two semesters. Each semester comprises 15 weeks of teaching and two weeks of examinations.

MODULAR SYSTEM: All postgraduate programmes shall be run on modular system, commonly referred to as Course Unit System. All courses should therefore be sub-divided into more or less self-sufficient and logically consistent Packages that are taught within a semester and examined at the end of that particular semester. Credit weights should be attached to each course. DEFINITION OF CREDIT UNIT

Credits are weights attached to a course. One credit is equivalent to ONE CREDIT UNIT and consists of:

1 hour /week of lectures or tutorials or Self instruction	per
semester of 15weeks =[15 Lecture hours] or	-
3 hours/week of term paper work	per
semester of 15 weeks =[45 term-paper hours] or	
3 hours/week of practicals/clinicals	per
semester of 15 weeks. =[45 Practicals or Clinicals h	ours]

REQUIREMENTS FOR GRADUATION OF THE DOCTOR OF MEDICINE (POSTGRADUATE MD PROGRAMME) – A minimum workload of 54 credit units of which: 12 credit units are for the thesis, 30 credit units are for coursework and 6 credit units are for three departmental seminars. 2 credit units for Mandatory College research methodology workshop 2 credit units for Mandatory College Management workshop

2 credit unit for departmental specialty course

SENIOR RESIDENCY TRAINING

OBJECTIVES OF SENIOR ORLHNS

- 1. Refinement of skills in clinical examination, consultation, radiological imaging and pathology.
- 2. Teach junior in examination patient care, and surgery.
- 3. Management skill.
- 4. Improve surgical skills and operative experience.

SKILLS EXPECTED TO BE ACQUIRED **EAR**

1.	Removal of meatal masses		P5
2.	Surgery of meatal atresia	A5	P5
3.	Partial reconstruction of the pinna		P5
4.	Surgical approaches to the middle ear		
	and mastoid	A5	P5
5.	Cortical mastoidectomy	A5	P5
6.	Radial mastoidectomy	A5	P5
7.	Myringoplasty (P) and Ossiculoplasty	A5	P5
8.	Stapedectomy	A5	P5
9.	Surgery of Glomus Tumours of the ear	A5	
10.	Surgery of the facial nerve	A5	
NOS	Ε		
NOS 1.	E Turbinectomy		P5
		A5	Р5 Р5
1.	Turbinectomy	A5	
1. 2.	Turbinectomy Lateral rhinotomy	A5 A5	
1. 2.	Turbinectomy Lateral rhinotomy Surgery of Tumours of the external Nose		P5
1. 2. 3.	Turbinectomy Lateral rhinotomy Surgery of Tumours of the external Nose and Nasal Cavity	A5	Р5 Р5
1. 2. 3. 4.	Turbinectomy Lateral rhinotomy Surgery of Tumours of the external Nose and Nasal Cavity Caldwell-Luc and allied operation	A5 A5	P5 P5 P5
1. 2. 3. 4. 5.	Turbinectomy Lateral rhinotomy Surgery of Tumours of the external Nose and Nasal Cavity Caldwell-Luc and allied operation Surgery of blow-out injuries of the orbit	A5 A5 A5	P5 P5 P5 P5
1. 2. 3. 4. 5. 6.	Turbinectomy Lateral rhinotomy Surgery of Tumours of the external Nose and Nasal Cavity Caldwell-Luc and allied operation Surgery of blow-out injuries of the orbit Simple and Radical Maxillectomy	A5 A5 A5 A5	P5 P5 P5 P5

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10.	External operations of frontal ethmoidal		
	and sphenoidal sinuses	A5	P5
11.	Nasoendoscopy	A5	P20
12.	Nasoendoscopy/Biopsy	A5	P10
13.	Endoscopic sinus surgery		P10
PH	ARYNX AND OESOPHAGUES		
1.	Adenoidectomy		P5
2.	Transpalatal approach to the post nasal space	A5	P5
3.	Surgery of angiofibroma of nasopharynx	A5	P5
OR	OPHARYNX		
1.	Tonsillectomy by dissection		P5
2.	Division of a long styloid process in the tonsil	lar fos	sa P5
3.	Division of the glossopharyngeal nerve in the		
	Tonsillar fossa		P5
4.	Surgery of Peritonsillar abscess		P5
5.	Surgical treatment of parapharyngeal and		
	retropharyngeal abscess		P5
6.	Tumours of oropharynx	A5	P5
LA	RYNGO PHARYNX AND OESOPHAGUS		
1.	Oesophagoscopy		P5
2.	Pharyngotomy and partial pharyngectomy	A5	P5
3.	Intubation of the Oesophagus		P5
4.	Diathermy Treatment of laryngeal pouch	A5	P5
5.	Cricopharyngeal sphincterotomy	A5	P5
6.	Excision of pharyngeal pouch	A5	P5
7.	Pharyngolaryngectomy	A5	
8.	Fibreoptic Laryngoscopy		P20
LA	RYNX AND TRACHEBRONCHIAL TREE		
	1. Laryngoscopy	A5	P5
	2. Bronchoscopy	A5	P5

3	. Tracheostomy	A5	P5
4	. Surgery of laryngotracheal stenosis	A5	
5	. Surgery of laryngocoele	A5	P5
6	. Surgery of laryngeal paralysis	A5	P5
7	. Radical neck dissection	A5	P5
8	. Laryngofissure	A5	P5
9	. Laryngectomy	A5	P5
OPE	RATION OF HEAD AND NECK		
1.	Ligation of the external carotid artery	A5	P5
2.	Surgical treatment of branchial cyst	A5	P5
3.	Partial parotidectomy	A5	P5
4.	Total parotidectomy	A5	P5
5.	Removal of the submandibular salivary gland	A5	P5
6.	Removal of calculi of salivary ducts	A5	P5
7.	Surgery of cancer of the oral cavity	A5	P5
8.	Neck dissections operation	A5	P5
9.	Head/neck flap reconstruct procedures	A5	P5

COMPETENCE BASED GRADING OF PERFORMANCE

GRADES OF PERFORMANCE SCORES

PERFORMANCE GRADE	DESCRIPTION	
Α	Adequate knowledge;	
	Performs skill without supervision;	
	can reproduce skill on request;	
	five to six points on Affective domain.	
В	Adequate knowledge;	
	performs skill with minimal supervision;	
	reproduces skill with minimal guidance;	
4		

	four to five points on Affective domain.		
С	Adequate knowledge;		
	performs skill with supervision;		
	barely reproduces skill;		
	3-4 points on Affective domain.		
D	Inadequate knowledge;		
	performs skill with supervision;		
	Unable to reproduce skill;		
	2 - 3 points on Affective domain.		
E	Gross inadequate knowledge;		
	unable to perform task;		
	unable to reproduce skill;		
	1-2 points on Affective domain.		
	DOMAINS FOR ASSESSING		
CANDIDATES DURI			
	1. Attendance to work		
	2. Punctuality		
	Prompt delivery of		
	assignments		
	4. Group work and interaction		
	5. Obeying instructions		
	Respect for patient care		

GENERAL TRAINING FOR SENIOR RESIDENCY

OBJECTIVES

Management course

Resident must endeavour to attend Management Course before sitting for Part 2 Fellowship examination.

Education course

Head and neck surgical dissection course is a **recommended** course for all residents **before** Part 2 Fellowship examination.

Research Training/Methodology

National postgraduate Medical College organizes a research methodology course and it is mandatory that Residents must attend before sitting for Part 2 Fellowship examination. Resident must keyin into a research work in collaboration with his/her consultant.

Conferences

Residents are to attend local and International Conferences especially as related to ORL and Surgery.

The faculty specifically identifies **ORLSON Conference**, and it is a **mandatory** that Residents should attend.

Residents must present at least **one scientific paper** at the conference before sitting for Part 2 Fellowship examination.

REFERENCE

- J.M. Nedzelki, Derek Birt. Assessment of operative skills – Department of Otolaryngology, University of Toronto, Departmental Handbook. 1995, 144-145
- 2. Harmonized Curriculum for Otorhinolaryngology-Head and Neck Surgery in the Anglophone West African Sub region.

APPENDIX I

CRITERIA FOR ACCREDITATION OF INSTITUTIONS FOR TRAINING OF ORLHNS RESIDENTS (2020)

1. QUALIFIED AND EXPERIENCED PERSONNEL (15 points)

s/n	Descriptions and minimum number of staff	Score Guideline	Points scored
1.	ORLHNS Consultant: At least 4 consultants of which minimum of one (1) must not be less than 5 years post Fellowship of the College.	Two (2) points per consultant (10 points max), (2 part time consultants are equivalent to 1 full time consultant)	
2.	Audiologist/Audiometrician – 2;	1 point each (2points max)	
3.	Speech pathologist/therapist – 1	1 point	
4.	ENT trained Nurses deployed in outpatient and wards	1 point each (2points max)	

2. APPROPRIATE INFRASTUCTURE (10 points)

- A. **Basic**: Water, Light, Sewage etc (Maximum 1 point)
- B. Core Departments Present Outpatient Clinic (Maximum of 15 points)

s/n	Description and minimum number	Score Guideline
1	Consulting stations minimum of 6	1/2 point per station
		1 point each
	ENT consoles with patient chair and Doctors chair	
	(6)	
	Basic ENT Clinic based instruments	¹ / ₂ point per set of instrument
	a. Jobson horne probes (25),b.Suction nozzles(25),	(maximum 5 points)
	c.Tilleys dressing forceps(25), d.Crocodile	
	forceps(25), e.Cawthorne aural forceps(25), f.Nasal	
	specula(50), g.Aural specula(15), h.Tongue	
	depressors(50), i.Tuning forks(20), j.Laryngeal	
	mirrors(50), k.Otoscopes(10), l.Head-mirrors(10),	
	(suction machines(6) optional if consoles	
	requirements are met)	

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2	Treatment Room with accessories	1 point
-	readment room with accessories	1 point

C. Support Departments Present (Maximum 4 points)

The training Institution must have full accreditation in General Surgery by the Faculty of Surgery of the National Postgraduate Medical College of Nigeria or a Sister College. (1 point) This will include the hospital having the following surgical units for the postings of

Otorhinolaryngology Head and Neck Surgery (ORLHNS) Residents:

Cardiothoracic (1/2), Plastic and Reconstructive Surgery (or Maxillofacial) (1/2), (2 points)

Neurosurgery(1/2), Ophthalmology(1/2)

Other departments in the hospital with adequate facilities especially with regard to ORL patient care:

Anaesthesiology, Radiology, Pathology departments, Blood banking; Pharmacy (1point)

Comment: Multiply total score (/20) in section 2 by 0.5 to get score /10.

3. EQUIPMENT (20 points)

Core Equipment (E. N. T. Laboratory and other Facilities) - (Maximum 20 points)

	Description and minimum number	Score guidelines	Points scored
1	Audiology Lab ; Pure tone audiometer (1), Tympanometer(1), OAE machine(1), ABR machine(1) Audio booth or sound proof room(1)	7 points	
2	Vestibular Lab: ENG machine (1) Caloric machine (1)	3 points	
3	Temporal bone dissection laboratory with facilities – drills, burrs, bone holder, microscope/loupe); Ear instruments accessories	3 points	
4	Endoscopy/Otomicroscopy room for out-patient procedures telescopes and flexible laryngoscope CCU/Camera/Monitor, Microscope	3 points	
5	Speech Lab: Stroboscopy machine and accessories	1 point	
6	Rhinometric Lab: Rhinometer and accessories	1 point	
7	Sleep Lab: Polymosonogragh and other accessories	1 point	
8	Seminar room with audio-visual aid, multimedia facilities	1 point	

*OAE---Oto acoustic Emission Machine

* ABR-Auditory Brain Response Audiometer

*ENG—Electronystagmography

* CCU-Camera Circuit Unit

4. WELL STRUCTURED TRAINING PROGRAMME (15 Points)

A. Administration (Maximum of 3 points)

s/n	Description	Score Guideline	Points scored
1.	The Department should be an autonomous ORLHNS department of a hospital and/or College of Medicine, as appropriate. It may be a stand-alone hospital/institution.	1 point	
2.	It shall be headed by a Fellow of the College.	1 point	
3.	There shall be adequate funding of the Departmental activities especially its training programme.	1 point	

B. In-Patient Wards : (Maximum of 9 points)

There shall be Ward dedicated to ORL in patients and has a minimum of 20 bed spaces In-patient register of the past three years to be sighted.

s/n	Description and minimum number	Score Guidelines	Points scored
1	Bed space of 20, Males -7, Females 7 and Children 6	1 point for each 5 beds dedicated ward 3 points non dedicated ward 1 point	
2	Ward treatment room	1 point	
3	Call room space for Residents	1 point	

C. Lectures/Tutorials (3 points)

Departments to provide portfolio of Departmental grand Rounds, Seminars, clinical conferences, clinic-pathological conferences, joint meetings with other departments, revision courses in the department, etc

s/n	Description and minimum number	Score Guidelines	Points scored
1	Departmental Seminars/ Ground Rounds	1 point	
2	Training Programmes of the Department in the past three years	1 point	

Pathological Conferences	Clinico-Radiological/ Clinico-	1 point	
Ŭ	Pathological Conferences		

5. OPPORTUNITIES/EVIDENCE OF SKILL ACQUISITION (15 Points)

Operating Theatre: (Maximum of 15 points)

Operation Register in the past three (3) years shall be provided for inspection. The instruments will be inspected.

Points scored
scored

6. ACCESS TO NEW INFORMATION /KNOWLEDGE (15 Points)

A. Learning Resources of the Department (Maximum of 5 points)

s/n	Description and minimum number	Score Guidelines	Points scored
1	Departmental Library with ENT reference books and current journals	1 point	
2	Institution's Library, if Residents have easy access	1 point	
3	ICT facilities with Internet access	1 point	
4	Museum for pathology pots, etc,	1 point	
5	NPMCN Journal	1 point	

*ICT—Information and Communication Technology

B. Departmental Hands – On Learning Resource (Maximum 10 points)

s/n	Description and minimum number	Score Guidelines	Points scored
1	Departmental Temporal Bone Cadaver Dissection Activities by Residents	5 points	
2	FESS Cadaver Dissection Activities by Residents	5 points	

*FESS—Functional Endoscopic Sinus Surgery

7. REGULAR FEED BACK AND EVALUATION (10 Points)

Patient Work – load - (Maximum of 10 marks)

Patient load should reflect variety in number and types of ORL clinical conditions handled per annum in the training institution vis a vis the number of Residents in the training Department

New Out-patient load/annum

Points Scored

500	-		1/2 point
501	-	1000	1 point
1001	-		2 points
2001	-	above	3 points
In-pati	ent load	(Total	admissions)
< 50	-		1/2 point
51	-	100	1 point
101	-	150	2 points
151	-	above	3 points

Patients operated upon:		
Up to 50 patients/ annum	-	1 point
Equal to and more than 51 patients	-	2 points
Variety of operationsPoor	-	½ point
Average	-	1 point
Good	-	2 points

8. Accreditation status to Recommend:

Accreditation status will be determined by the total scores within the following guidelines:

8a. The Department shall meet the following minimum spread of the scores from various segments of section

Section	Minimum Score	Actual score
1.Qualified and	7.5	
Experienced		
Personnel		
2. Appropriate	5	
Infrastructure		
3. Equipment	10	
4. Training	7.5	
Programme		
5. Skill	7.5	
Acquisition		
6. Access to new	7.5	
information		
7. Feed-back and	5	
Evaluation		
Total	50	

If the criteria set out in 8a are fulfilled, the Department becomes eligible to be considered further for accreditation as stated hereunder: Recommendation:

8b. FULL ACCREDITATION:

(i) Score of 75 points plus

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- (ii) Minimum of 1 Consultant Fellow in ORLHNS of the College of at least 5 years post qualification.
- (iii) Full accreditation for General Surgery department.
- (iv) Criteria set out in 8a above

Then full accreditation for 5years

PARTIAL ACCREDITATION:

- (i) Score of 50 74 points
- (ii) Minimum of 1 Consultant Fellow of the College in ORLHNS of at least 5 years post qualification
- (iii) Criteria set out in 8a above

Then partial accreditation for 2years

DENIAL OF ACCREDITATION

- (i) Score < 50 points
- (ii) No Fellow of NPMCN
- (iii) Failure to meet criteria set out in 8a above

Then denial of accreditation.

Trainers/Trainee Ratio

The number of Residents to be approved for the junior and senior stages will be determined by taking into cognisance the number and experience of personnel on ground, quality and variety of infrastructure in the Department, inherent strengths and comparative advantages of the training programme mounted in the department, the track record of the Department and the patient work load.

The ratio of Residents to Consultants should be minimum of 3:1 or Maximum of 4:1. That is, One (1) Senior Registrar and Two (2) Registrars OR Two (2) Senior Registrars and Two (2) Registrars to one Consultant

Number of Residents Recommended for training:

Junior :

Senior:

.....

.....

Full Names/ Signature

Full Names / Signature

Chairman/Team Leader Team Member

Full Names/ Signature

Panel Member/ Secretary

Full Names/ Signature

Panel Member

CRITERIA FOR ACCREDITATION FOR STAND ALONE TRAINING INSTITUTION OI TRAINING OF OTORHINOLARYNGOLOGY RESIDENTS (201:

SECTION A: Surgical Units of the Institution: (Maximum of [8] points)

The stand- alone training Institution must have affiliation to a surgical department of another hospital wi regarding rotations and training of O.R.L residents (a copy of the Legal document must be presented to t Surgical department of the hospital must have full accreditation by the Faculty of Surgery of the Nationa Nigeria. (4 points)

This will include the hospital having the following surgical units for the postings of Otorhinola CardioThoracic (1), Plastic and Reconstructive Surgery(1) or Maxillofacial) (1), Neurosurgery(1), Ophthalmology(1), (4 points)

SECTION B: Other Departments

The stand -alone hospital or training Institution must have the following departments within the hospital must have adequate facilities especially with regard to training and ORL patient care: (Maximum [7] pc

	Description
1	Anaesthesiology department
	Appropriate & adequate facilities

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2	Radiology department	(1/2
	Appropriate & adequate facilities (Digital plain X-ray machine, Ultra Sound Scan machine, CT Scan, MRI others.)	(1/2 p
3	Radiotherapy department	(1/2 p
	Appropriate & adequate facilities (cobalt or linear accelerator machine)	(1/2pc
4	Pathology departments	(1/2 p
	Appropriate & adequate facilities	(1/2 p
5	Heamatology and blood banking department	(1/2 p
	Appropriate & adequate facilities	(1/2 p
6	Pharmacy department	(1/2)
	Facilities for quality control	(1/2 p
7.	Others	(1poir

SECTION C: Otorhinolaryngology: (Departments, Administration/Staff)

- 1. Departments (Maximum of [20] points)
- a. The stand-alone hospital or training Institution shall be headed by a Fellow of the NPMCN or equivalent College. (1 point)

b. The stand-alone hospital or training Institution must have at least 3 of the following sub-specialties Otorhinolaryngology as functioning units namely: 1. Otology 2. Rhinology 3. Laryngology 4. Head Neck O.R.L 6. Audiological medicine 7. Phoniatrics (7 points)

c. There shall be adequate funding of the various departmental activities especially as it concerns training prog point)

Administration/Staff

s/n	Description and minimum number of staff	Score Guideline
1.	Each sub specialities must have a minimum of two ORL Consultants:	(1/2) point per consultant to up maximum (10 points);

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	Minimum of 14 consultants in the hospital of which at least 8 of them must be not less than 5 years post Fellowship of the College;	(3 part time consultants are equivalent to 1 full time consultant)
	1. Otology (2 consultants)	
	2. Rhinology (2 consultants)	
	3. Laryngology (2 consultants)	
	4. Head Neck Surgery (2 consultants)	
	5. Paediatric O.R.L (2 consultants)	
	6. Audiological medicine (2 consultants)	
	7. Phoniatrics (2 consultants)	
	8. Others(2 consultants)	
		1
2.	Audiologist (BSc, AuD) –minimum of 2; Audiologist Technician minimum of 2	(1/2 point per staff} (3 points max)
3.	Speech pathologist/therapist – minimum of 2	(1/2 point per staff) (1 point max)
4.	ENT trained Nurses deployed in outpatient, and wards	(1/2 point per staff) (6 points max)

SECTION D

1. Non -otorhinolaryngology (Departments, Administration/Staff) (Maximum of [8] points)

Departments

The non-otorhinolaryngology departments of stand-alone hospital or training Institution must have at least consultants of which one must be a Fellow of the College.

ſ	a / m	Description and minimum number of	Score Guideline
	s/n	Description and minimum number of	Score Guideline
L		stall	

1.

	(1/2 point per consultant)(3 part time consultants are equivalent to 1 full time consultant)
1. Anaesthesiology department (2 consultants)	(1 point max)
2. Radiology department (2 consultants)	(1 point max)
Pathology	
3. (Morbid anatomy and mortuary department (2 consultants)	(1 point max)
4. Micro biology department (2 consultants)	(1 point max)
5. Biochemistry department (2 consultants)	(1 point max)
6. Haematology and blood banking department (2 consultants)	(1 point max)
 Radiotherapy department (2 consultants) 	(1 point max)
8. Others	(1 point max)

SECTION E Medical Consultant Staffs (Visiting/Honorary) (Maximum of [7] points)

The stand- alone hospital or training Institution must appoint honorary visiting consultants in the following specialit collaborative patient care and training with minimum basic facilities to work with. (1/4 point per consultant and basic facilities)

	Description	Score guidelines	Points scored
1	Cardiothoracic surgery	(1/4 point)	
	Minimum basic facilities	(1/2 point)	
2	General surgery	(1/4 point)	
	Minimum basic facilities	(1/2 point)	
3	Neuro surgery	(1/4 point)	
	Minimum basic facilities	(1/2 point)	
4	Ophthalmology	(1/4 point)	
	Minimum basic facilities	(1/2 point)	
5	Paediatrics	(1/4 point)	
	Minimum basic facilities	(1/2 point)	
6	Internal medicine	(1/4 point)	
	Minimum basic facilities	(¹ / ₂ point)	
7.	Others	(1/2 point)	

SECTION F. Outpatient Clinic (Maximum of [10] points)

s/n	Description and minimum number	Score Guideline
1	Consulting stations minimum of 20 of which 14 must be ENT based.	(1/4 point) per station
		(¹ / ₄ point) each
	Minimum of (14) ENTconsoles with patient chair and Doctors"chair.	
		(¹ / ₄ point) per set of
	Basic ENT Clinic based instruments a.Jobson horne probes (50),b.Suction nozzles(50),, c.Tilleys dressing forceps(50), d.Crocodile	instrument
	forceps(50), e. Cawthorne"aural forceps(50), f.Nasal specula(50), g.Aural specula(50),	
	h.Tongue depressors(50), i.Tuning forks(20),	

	j.Laryngeal mirrors(20), k. Otoscopes(15), l. Head-mirrors(20), (suction machines(14) optional if consoles requirements are met) Other basic medical and surgical clinic furniture and accessories for all the rooms.	
2	Treatment Room with accessories (6 rooms)	(point)

SECTION G. E. N. T Laboratories and other Facilities - (Maximum [12] points)

Hospital to provide portfolio of Departmental or hospital grand Rounds, Seminars, clinical conferences conferences, joint meetings with other departments, revision courses in the department. etc (1/4 point each

	Description and minimum number	Score gu
1	Audiology Lab; minimum of Pure tone audiometer (2), Tympanometer(2), OAE machine(2), ABRmachine(2) Audio booth or sound proof room(2)	(2 point
2	Vestibular Lab: ENG machine (2) Caloric machine (2) Rotary chair (2) Vemp machine (2)	(1 point
3	Temporal bone dissection laboratory with facilities – drills, burrs, bone holder, microscope/loupe); Ear instruments accessories	(1point)
4	Endoscopy room for out-patient procedures telescopes and flexible laryngoscope adult & paediatric (2) CCU/Camera/Monitor	(1 point
5	Otomicroscopy room; Microscope with teaching arm and video camera minimum of (4)	(1point)
6	Speech Lab: Stroboscopy machine and accessories	(1point)
7	Rhinometric Lab: Rhinometer and accessories	(1point)
8	Sleep Lab: Polymosonogragh and other accessories	(1point)
9	Seminar room with audiovisual aid, multimedia facilities	(1point)
10	Training Programmes of the hospital or various O.R.L departments in the past three years	(1 point

SECTION H. <u>Operating Theatre:</u> (**Maximum of [8] points**) Operation Register in the past three years shall be provided for inspection. The instruments will be inspected.

s/n	Description and minimum number	Score guidelines
1	ORL theatre room space minimum of (4) theatre rooms and daily operating sessions	(1/2 point per op. session per week) (max 1 point)
2	Sets of instruments for the common ORL operations a.Tonsillectomy/Adenoidectomy set (6sets)	(1/4 point per set of instruments) (max 2 points)

	 b.Nasal tray, Antrostomy tray & Caldwell luc tray (6sets) c.Middle ear set and Mastoid set (6sets) d.Basic surgery (Minor and Major sets, (6sets) e.Laryngoscope (Adult and Peadiatric (6sets) f.Oesophagoscope(Adult and Peadiatric (6sets) g.Bronchoscope (Adult and Peadiatric (6 sets) h.Endoscope forceps and suction nozzles (6 sets) 	
3	Operating microscope with teaching arm or camera; (2)	(¹ / ₂ point each) (2 points max)
4	Endoscopic Surgery instrument sets; telescopes CCU/Camera/Monitor (2sets)	(1/2 point per set) (1 point max)
5	Intensive Care Unit, well-equipped minimum of 5 beds with ventilators	(1 point max)
6	Others. Basic Major and minor surgical sets.	

SECTION I. In-patient Wards: (Maximum of [6] points)

s/n	Description and minimum number	Score Guidelines	Р
			S
1	Bed space of 250, Males -100, Females 100 & and Children 50	(1/2 point for each dedicated ward and 1/4 point for non-dedicated ward) (1/2 point for	
		every 50 beds) (4 points max)	
2	Ward treatment room	(1/2 point max)	
3	Call room space for Residents	(1 point max)	
4	Others	(1/2 point max)	

SECTION J. Learning Resources of the Department (Maximum of [4] points)

s/n Description and minimum number	Score Guidelines	Points
------------------------------------	------------------	--------

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1	Departmental Library with ENT reference books and current journals	(2 points max)
2	Institution's Library, if Residents have easy access	(1 point max)
3	ICT facilities with Internet access	(1/2 point max)
4	Museum for pathology pots, etc,	(1/2 point max)
5	Others	

SECTION K. <u>Patient Work – load</u> - (Maximum of [10]marks)

Patient load should reflect variety in number and types of ORL clinical conditions handled per annum in that vis the number of Residents in the training Department

New Out-patient load/annum

Points Scored

□ 1000			1 point		
1001 - 2	2000		2 points		
2001 - 3	3000		3 points		
> 3000			4 points		
In-patie	nt load	(Total a	dmissions)		
< 500	-		1 point		
501	-	1000	2 points		
1001	-	2000	3 points		
2001 - above 4 points					
Patients operated upon:					
Up to 500 patients/ annum		-	1 point		
Equal to and more than 500 patients		500 patients	-	2 points	

SECTION L. Accreditation status to Recommend:

Accreditation status will be determined by the total scores within the following guidelines:

0		• • • • • • • • •	1	• .•
8a.	The Department should be able to score a	a minimum of 155	1 points from	various sections.

Section	Minimum Score	Actual score
A: Surgical Units	4	
B. Other Departments	4	
C.ORL Administration/Staffing	10	
D. Non-	4	
ORL Administration/Staffing		
E. Medical consultant staff	3	
F. Outpatients	5	
G. ENT Laboratory	6	
H. Theatre	4	
I. In-patients	3	
J. Learning resources	2	
K. Patient work load	5	
Total	50	

If the criteria set out in 8a are fulfilled, the Department becomes eligible to be considered further thereunder:

Recommendation:

8b. Summary:
70 points plus: full accreditation for 5years;
50 - 69 points: partial accreditation for 2years,
<50 points: denial of accreditation

The number of Residents to be approved for the junior and senior stages will be determined by taking into and experience of personnel on ground, quality and variety of infrastructure in the Department, inherent st advantages of the training programme mounted in the department, the track record of the Department and Number of Residents Recommended for training:

Junior :

Senior:

ACKNOWLEDGEMENT

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