Medical undergraduate training in ENT

General objective

- To acquire knowledge and skills required for the management of ENT related pathologies.

Specific objectives

At the end of the medical curriculum the students should be able to,

- 1. Apply knowledge in Anatomy and Physiology of the ear, nose and throat to understand ENT diseases.
- 2. Describe the basic pathogenesis in common ENT related disorders.
- 3. Investigate, diagnose and manage common ENT related pathologies.
- 4. Refer patients to specialized ENT care appropriately.
- 5. Describe the national program for prevention of deafness including the neonatal hearing screening program.
- 6. Discuss the basic principles in preventing ENT related pathologies.

Main content areas

- 1. Basic sciences of the Ear, Nose, Throat
- 2. Clinical assessment/management of a patient with an ENT related disorder.
- 3. Diseases of the Ear
- 4. Diseases of the Nose
- 5. Diseases of the Pharynx/Larynx
- 6. Diseases of the Neck

Intermediate learning	Content area	Teaching/learning	
objectives		methods	
Should be able to -			
1.1 Describe the relevant	-Ear	Recall- clinical	A
anatomy in ENT	-Nose & Paranasal sinuses	Anatomy lectures	
	-Pharynx	Student presentations	
	- Larynx		
	- Triangles of the neck /		
	contents		
	- Lymphatic drainage of		
	the neck		
	- Spaces of the neck		
1.2 Describe the relevant	- Hearing	Recall – Physiology	A
physiology in ENT	- Balance	lectures	
pariotogy in 21 (1	- Smell	Student presentations	
	- Deglutition	2 to the property of the prope	
	- Phonation		

2.1 Obtain a history on a patient with an ENT disease.	- Symptoms of ENT diseases - Extracting information from the BHT - Daily updates - Reference on the condition	Clinical appointment (Ward classes/ Ward rounds/Theatre)	A
2.2 Perform/observe detailed ENT examination.	Examination techniques – Using otoscope, using tongue depressor, using nasal speculum, examination of lumps, Palpation of the neck, Tuning fork tests. Observe -Fibreoptic laryngoscopy (FOL), Rigid nasal endoscopy (RNE), otoscopy, Using ear microscope (EUM), ear syringing	Clinical appointment (Ward classes/ Ward rounds/Theatre) Skills laboratory sessions	A
2.3 Request/ Interpret relevant investigations	AudiometryVestibular function testingThyroid function tests	Clinical appointment (Audiology/vestibular lab) – observe	A
2.4 Refer for adjunct treatment methods	-speech therapy - vestibular rehabilitation	Clinical appointment – observe	A
2.5 Record data accurately	- write op notes, maintain BHT, writing diagnosis cards	Clinical appointment	A
3. Describe diseases of the ear	- Prevalence - Etiology - Pathogenesis - Symptoms (earache, ear discharge, tinnitus, vertigo, hearing impairment) - Management - Neonatal screening program	Lectures Clinical appointment (Ward classes/ Ward rounds/operative theater)	A
3. Describe diseases of the Nose and paranasal sinuses	- Prevalence - Etiology	Lectures	A

	- Pathogenesis - Symptoms/signs (nasal obstruction, nasal destruction, rhinorrhea, epistaxis, nasal masses/polyps) - Management - Nasal packing	Clinical appointment (Ward classes/ Ward rounds/theatre) Skills lab sessions	
4. Describe diseases of the larynx	- Prevalence - Etiology - Pathogenesis - Symptoms (Change in voice, upper airway obstruction/ stridor) - Management - Tracheostomy — indications, procedure, tracheostomy care.	Lectures Clinical appointment (Ward classes/ Ward rounds/operative theater) Skills lab sessions	A
5. Describe diseases of the Pharynx	- Prevalence - Etiology - Pathogenesis - Symptoms (Throat pain incl nonspecific throat pain, dysphagia) - Management - Obstructive sleep apnoea - Indications for tonsillectomy, procedure, complications	Lectures Clinical appointment (Ward classes/ Ward rounds/operative theater)	A
6. Describe diseases of the neck	- Prevalence - Etiology - Pathogenesis - Symptoms/signs (lumps, Thyroid, salivary gland pathologies, headache, facial pain) - Management	Lectures Clinical appointment (Ward classes/ Ward rounds/operative theater)	A

Teaching methods

- 1. Lectures 7
- 2. Skills/Demonstration sessions 2 sessions (each session for 2 hrs)
 - -Examination techniques otoscopy, use of tongue depression, ear syringing, tracheostomy care
 - Nasal packing
 - Changing Tracheostomy / Suction
- 3. Clinical appointment 14 days
 - -Ward rounds presentations by students.
 - Operating theatre presentation of history, observation, assistance where necessary.
 - Basic sciences short presentation by each student.
 - Discussions case based/ problem based.
 - Assessment / end of appointment. Optional.
 - Special assignments as decided by the consultant (Students may be given an interesting clinical problem to make a short presentation to their colleagues).
 - Group learning activity audiometry inspection, speech therapy inspection, Thyroid function tests.
- 4. Web based poster