

Dow University of Health Sciences



Ear, Nose & Throat (ENT) MODULE (ENT 02)

Fourth Year MBBS

5 YEAR CURRICULAR ORGANIZATION

Spiral	year	Modules				
First Spiral	I	FND1- Foundation Cell, Genetics & Cell Death (Basics of Anatomy, Physiology, Biochemistry, Gen. Pathology, Gen. Pharmacology, Community Medicine & Behavioral Sciences, 9 Weeks		HEM1- Blood Module Immunity, Inflammation, Tissue repair, Antimicrobials & Neoplasia 9Week		
		LCM1- Locomotion Bones, Joints, Nerves & Muscles, 9weeks		RSP1- Respiratory System 6 weeks	CVS1- Cardiovascular System 4 weeks	
	II	NEU1- Nervous System 8 weeks		HNN1- Head & Neck & Special 6 weeks	END1- Endocrinology 5weeks	
		GIL 1-GIT and Liver 8 weeks		EXC1- Renal and Excretory System 5 weeks	REP1- Reproductive System 5 weeks	
Second Spiral	III	IDD 1- Infectious diseases 5 weeks	HEM2- Hematology 5 weeks		RSP2- Respiratory System 5 weeks	CVS2- Cardiovascular System 5 weeks
		GIL 2-GIT and Liver (including Nutritional Disorders) 8weeks		EXC2- Renal & Excretory System 5 weeks	END2- Endocrinology 5 weeks	
	IV	ORT2- Orthopedics, Rheumatology, Trauma 7 weeks		REP2- Reproductive System 8 Weeks	PMR-Physical Medicine & Rehabilitation DPS-Dermatology Plastic Surgery / Burns GEN-Genetics 6 weeks	
		NEU2- Neurosciences and Psychiatry 8 weeks		ENT* 4 weeks	OPHTHALMOLOGY * 4 weeks	
Third Spiral	V	Clinical Rotation 9:30 to 3:00 (with Ambulatory, Emergency, Intensive care) In Medicine, Pediatrics, Cardiology and Neurology units <ul style="list-style-type: none"> ▪ Lecture on problem based approach, twice a week ▪ Ward tutorial twice a week ▪ Student research presentation once a week 		Clinical Rotation 9:30 to 3:00 (Inpatient, Ambulatory, Emergency, Intensive care and Operation Theatres) In Surgery, Gynecology & Obstetrics, Orthopedics and Neurosurgery. <ul style="list-style-type: none"> ▪ Lecture on problem based approach, twice a week ▪ Ward tutorial twice a week ▪ Student research presentation once a week 		

RATIONALE

Some of the commonest diseases encountered by a general practitioner belong to the ear, nose, throat and head and neck region. A medical graduate should have sound knowledge of symptomatology of ENT diseases, their diagnosis and principles of management. They should be able to order and interpret pertinent investigations and treat some of the common problems along with adequate referral where appropriate. In the Head and Neck module students were given the background of anatomy, physiology and basic pathology of this region. Based on this foundation the student shall acquire the clinical knowledge required for diagnosis and management of diseases related to ear, nose and throat.

MODULE OBJECTIVES

At the end of this module students should be able to:

- Review the anatomy of ear, nose and throat
- Recall the physiology of hearing and olfaction
- Discuss the pathophysiology, diagnosis, clinical features and management of diseases of external, middle and inner ear
- Review the pathology of oral cavity and salivary, oropharynx and hypopharynx
- Evaluate of the complications trauma to nose
- Recognize the neoplastic conditions of oral cavity, larynx and esophagus and discuss the management.
- Analyse the complications caused by foreign bodies in inner ear and nose and discuss their management.
- Illustrate the indication for tracheostomy and explain its procedure

MODULE CONTENTS

ANATOMY

Ent 2 Ang 1 REVISIT: Anatomy of ear

PHYSIOLOGY

Ent 2 Phy 1 REVISIT: Physiology of hearing

ENT

- Ent 2 Ent 1 Diseases of External Ear**
- Ent 2 Ent 2 Diseases of Middle Ear- ASOM**
- Ent 2 Ent 3 Diseases of Middle Ear- CSOM**
- Ent 2 Ent 4 Diseases of Middle Ear- CSOM Complications**
- Ent 2 Ent 5 Diseases of Inner Ear**
- Ent 2 Ent 6 Hearing Impairment**
- Ent 2 Ent 7 Allergic, Inflammatory, Neoplastic diseases of the Nose & PNS**
- Ent 2 Ent 8 NOSE (Trauma, DNS)**
- Ent 2 Ent 9 NOSE (Epistaxis and Malignancies of the Nose and PNS)**
- Ent 2 Ent 10 Diseases of Nasopharynx**
- Ent 2 Ent 11 Diseases of Oral Cavity**
- Ent 2 Ent 12 Neoplastic Condition of Oral Cavity**
- Ent 2 Ent 13 Diseases of Oropharynx**
- Ent 2 Ent 14 Diseases of Salivary Glands**
- Ent 2 Ent 15 Benign diseases of the Larynx**
- Ent 2 Ent 16 Malignant diseases of the Larynx**
- Ent 2 Ent 17 Voice disorders and Laryngeal Paralysis**
- Ent 2 Ent 18 Diseases of Hypopharynx**
- Ent 2 Ent 19 Stridor, Foreign Bodies, Tracheostomy**
- Ent 2 Ent 20 Oesophageal Disorders**
- Ent 2 Ent 21 Benign diseases of Neck / Neck masses**

COMMUNITY MEDICINE

Ent 2 Com1	T-Test application
Ent 2 Com 2	Noise
Ent 2 Com 3	Research ethics
Ent 2 Com 4	Decision making capacity

PHARMACOLOGY

Ent 2 Pha1	Review of drugs used in ENT
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SCNERIO BASE LEARNING

SBL 1

- Discuss CSOM with cholesteatoma.
- Enumerate the factors led you to the diagnosis.
- Describe Cholesteatoma.

SBL 2

- Discuss the peritonsillar abscess.
- Explain the etiological factors.
- Enlist the optimum treatment options which can be offered.

LEARNING OBJECTIVE OF SKILL LAB CURRICULUM

OTOSCOPY (AUROSCOPY)

Introduction/Rationale

Otoscopy is a skill which is commonly required in the evaluation of ear problems. An Otoscope is used to visualize the ear canal and tympanic membrane to rule out any abnormal conditions that might require further evaluation or treatment.

Learning objectives:

At the end of a session students should be able to:-

1. Identify different parts of an otoscope.
2. Demonstrate correct technique of otoscopy
3. Recognize normal External auditory canal (EAC) and tympanic membrane (TM).
4. Identify at least 5 different abnormalities of EAC & TM.
 - Cerumen in auditory canal
 - Serous otitis media
 - Chronic otitis media with large perforation.
 - Cholesteatoma
 - Tympano- sclerosis

ASSESSMENT PLAN**ENT-2 MODULE**

ASSESSMENT	WEIGHTAGE
ANNUAL EXAM	80%
MODULE EXAM INTERNAL EVALUATION	20%

CONTACT HOURS (DISCIPLINE WISE)

Discipline	Contact Hours
Anatomy	1
Physiology	1
Pharmacology	1
Community Medicine	4
SBL	2
ENT	21

BOOKS

ANATOMY

- **CLINICALLY ORIENTED ANATOMY**
KEITH.L.MOORE, Arthur F. Dalley, Anne M.R. Agur
7th or Latest EDITION
- **GRAY'S ANATOMY FOR STUDENTS**
Drake & Vogl & Mitchell
3rd or Latest EDITION
- **CLINICAL ANATOMY BY REGIONS (REFERENCE BOOK)**
Richard S. SNELL
9th EDITION
- **LAST'S ANATOMY: REGIONAL & APPLIED (REFERENCE BOOK)**
Chummy S. Sinnatamby
12th or Latest EDITION
- **ATLAS OF HUMAN ANATOMY**
FRANK H.NETTER
6th EDITION

EMBRYOLOGY

- **LANGMAN'S MEDICAL EMBRYOLOGY**
T.W.SADLER
13th EDITION
- **THE DEVELOPING HUMAN CLINICALLY ORIENTED EMBRYOLOGY**
(REFERENCE BOOK)
MOORE & PERSAUD & TORCHIA
10th EDITION

HISTOLOGY

- **MEDICAL HISTOLOGY**
LAIQ HUSSAIN SIDDIQUI
5TH or Latest EDITION
- **WHEATERS FUNCTIONAL HISTOLOGY**
BARBARA YOUNG
5th EDITION
- **BASIC HISTOLOGY(TEXT AND ATLAS) (REFERENCE BOOK)**
LUIZ JUNQUEIRA, JOSE CARNEIRO
11th or Latest EDITION

PATHOLOGY

- **ROBBINS BASIC PATHOLOGY**
KUMAR & ABBAS
9TH EDITION
- **ROBBINS & COTRAN PATHOLOGIC BASIS OF DISEASE (REFERENCE BOOK)**
KUMAR & ABBAS & ASTER
9th EDITION

COMMUNITY MEDICINE

- **PUBLIC HEALTH AND COMMUNITY MEDICINE**
SHAH, ILYAS, ANSARI
7th EDITION

PHARMACOLOGY

- **LIPPINCOTT'S ILLUSTRATED REVIEW PHARMACOLOGY**
KAREN WHALEN
6th or Latest Edition
- **BASIC AND CLINICAL PHARMACOLOGY (REFERENCE BOOK)**
BERTRAM G. KATZUNG
11th EDITION

MICROBIOLOGY

- **REVIEW OF MEDICAL MICROBIOLOGY AND IMMUNOLOGY**
WARREN LEWINSON
14th EDITION

MEDICINE & MEDICAL SPECIALTIES

- **PRINCIPLES & PRACTICE OF MEDICINE DAVIDSON'S**
22nd or Latest Edition
- **ESSENTIALS OF KUMAR AND CLARK'S CLINICAL MEDICINE**
KUMAR & CLARK 9th or Latest Edition
- **MACLEOD'S CLINICAL EXAMINATION DOUGLAS & NICOL &**
ROBERTSON 13TH or Latest Edition
- **HUTCHISON'S CLINICAL METHODS WILLIAM M DRAKE & MICHAEL**
GLYNN 23rd or Latest Edition

SURGERY & SURGICAL SPECIALTIES

- **SHORT PRACTICE OF SURGERY ROBERT JOHN MCNEILL LOVE,**
HENRY HAMILTON BAILEY 26TH EDITION or Latest Edition
- **CURRENT DIAGNOSIS AND TREATMENT SURGERY GERARD M.**
DOHERTY 14TH OR LATEST EDITION
- **BROWSE'S INTRODUCTION TO THE SYMPTOMS & SIGNS OF**
SURGICAL DISEASE NORMAN L BROWSE 5TH OR LATEST EDITION

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