

## JINNAH SINDH MEDICAL UNIVERSITY

STUDY GUIDE		
PROGRAM	MBBS	
MODULE TITLE	HEAD AND NECK & SPECIAL SENSES-II (ENT)	
ACADEMIC YEAR	Fourth year-2025	
INTRODUCTION	The Head & Neck and Special Senses-II module is related to diseases	
	of the Ear, Nose and Throat (ENT). ENT diseases are serious public	
	health problems because of their universal distribution, and the	
	morbidities associated thereof, which they cause due to inherent	
	physiological function that take place in head and neck region. This	
	study guide is to be used for 4th year students of Jinnah Sindh Medical	
	University.	
RATIONALE	This course, along with the ENT rotations, aims to produce graduate	
	capable of dealing with common conditions related to Ear, Nose and	
	Throat; in tertiary and primary health care settings. The long-term goal	
	is to contribute to the national provision of health care providers who	
	can take part in the reduction of impairment among the population.	
OUTCOMES	By the end of the Head and Neck & Special Senses-II module and ENT	
	rotation, students must be able to justify the diagnoses and	
	management plans of common, uncomplicated ENT-related	
	conditions in emergency and non-emergency situations.	
DEPARTMENTS	1. Community Medicine	
INVOLVED	2. ENT	
	3. Pathology	
MODULE	By the end of the module, the students should be able to:	
OBJECTIVES		

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LECTURES	1. Noise Pollution
COMMUNITY	Describe Noise & Vibration
MEDICINE	<ul> <li>Identify Noise sources &amp; measurements</li> </ul>
	Explain adverse health effects of noise
	Discuss Noise Management
	2. Cancers related to Head and Neck
	Describe various cancers of Head & neck
	<ul> <li>Identify risk factors of head &amp; neck cancers</li> </ul>
	Explain the control & prevention of head & neck cancers
ENT	EAR
	1. Congenital Disorders of External Ear
	Define Anotia, Microtia & Atresia of external Auditory canal
	<ul> <li>Discuss the clinical presentation, investigations and treatment</li> </ul>
	for pre-auricular cyst/ sinus
	2. Diseases of External Ear (wax/ foreign body)
	<ul> <li>Describe the etiology, clinical presentation, investigations,</li> </ul>
	treatment and complications of impacted wax, frunculosis and
	foreign body
	<ul> <li>Discuss the etiology, clinical presentation, investigations,</li> </ul>
	treatment and complications for: pre-auricular cyst/ sinus,
	Myringitis bullosa and Perichondritis
	3. Trauma to external ear
	treatment and complications of trauma to pinna and traumatic
	rupture of tympanic membrane
	Discuss the etiology, clinical presentation and management for
	Frostbite and Haematoma Auris.

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4.	Acute Otitis externa
•	• Discuss the etiology, clinical presentation, investigations,
	treatment and complications for- Acute & Diffuse Otitis Externa
(	<ul> <li>Discuss the etiology, clinical presentation, investigations,</li> </ul>
	treatment and complications for Otomycosis & Herpes Zoster
	Oticus
5.	Malignant Otitis Externa (I & II)
•	Discuss the etiology, clinical presentation, investigations,
	treatment and complications for Malignant Otitis Externa
6.	Benign tumors of external ear
(	<ul> <li>Discuss the etiology, clinical presentation, investigations,</li> </ul>
	treatment and complications for Benign tumors of external ear
7.	Malignant tumors of external ear
(	• Discuss the etiology, clinical presentation, investigations,
	treatment and complications for Malignant tumors of external
	ear
8.	Acute Otitis Media (I & II)
(	• Discuss the etiology, clinical presentation, investigations,
	treatment and complications of Acute Otitis Media, Chronic
	Otitis Media & Glue ear/ Otitis Media with effusion.
(	• Discuss the etiology, pathophysiology, clinical presentation,
	examination findings, investigations and treatment plan for:
	Acute Necrotizing Otitis Media
9.	Chronic Suppurative Otitis Media (CSOM)- I & II
(	<ul> <li>Discuss the etiology, clinical presentation, investigations,</li> </ul>
	treatment and complications of CSOM
(	<ul> <li>Describe the diagnosis and management of the complications</li> </ul>
	of otitis media

# 14. Acquired Vestibular Disorders

• [	JINNAH SINDH MEDICAL UNIVERSITY Describe the etiology, investigations and principles of
	treatment for Benign Paroxysmal Positional Vertigo, Vestibular
	Neuritis, Meniere's disease & Acoustic neuroma
	FACE
	Facial Nerve Paralysis
	Discuss the surgical anatomy of the facial nerve
•	List the causes of facial nerve paralysis
• [	Diagnose Bells Palsy and Ramsay Hunt syndrome based on
ę	given patient information
• [	Describe the principles of Management of facial paralysis in
,	Acute and Chronic Otitis Media and traumatic facial nerve
I	paralysis
16. Dise	eases of Salivary glands
٠	Diagnose diseases of salivary gland (inflammatory, benigr
	and malignant) based on clinical presentations and
	investigation findings
•	Justify selection of treatment options for these salivary gland
	conditions
17. Orc	al cavity ulcers
•	Justify diagnosis, investigations, differential diagnosis and
	treatment plans for oral cavity ulcers (Aphthus ulcers, Thrush &
	Leukoplakia)
•	Justify diagnosis, investigations, differential diagnosis and
-	treatment plans for oral cavity ulcers (Traumatic, Vincent
	Angina, Agranulocytic Tuberculous Behcet's Syndrome and
	Ulcerative lesions of Oral Cavity)
18 No.	oplastic conditions of Oral cavity
10. 146	
	Classify Neoplastic conditions of Oral cavity

•	JINNAH SINDH MEDICAL UNIVERSITY Justify diagnosis, investigations, differential diagnosis a
·	treatment plans for Neoplastic conditions of Oral cavity
	Diagnosis, investigations, differential diagnosis and treatme
•	plans for Oral Malignant Ulcers.
	-
	NOSE & PAPANASAL SINUSES
19. Ep	istaxis
•	Discuss the etiology, clinical presentation, investigation
	treatment and complications of Epistaxis
20. Fu	runculosis
•	Diagnose Furunculosis based on history, clinical findings c
	investigation findings
•	Discuss treatment plans for Furunculosis
_	
21. De	eviated Nasal Septum
21. De •	Discuss the etiology, clinical presentation, investigation
•	Discuss the etiology, clinical presentation, investigation treatment and complications of Deviated Nasal Septum
•	Discuss the etiology, clinical presentation, investigation treatment and complications of Deviated Nasal Septum Isal Polyps
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•	Discuss the etiology, clinical presentation, investigation treatment and complications of Deviated Nasal Septum <b>Isal Polyps</b> Define Polyps Diagnose Ethmoidal and Antrochoanal Polyps based on histor clinical findings and investigation findings
• 22. Nc •	Discuss the etiology, clinical presentation, investigation treatment and complications of Deviated Nasal Septum <b>Isal Polyps</b> Define Polyps Diagnose Ethmoidal and Antrochoanal Polyps based on histor clinical findings and investigation findings
• 22. Nc •	Discuss the etiology, clinical presentation, investigation treatment and complications of Deviated Nasal Septum <b>Isal Polyps</b> Define Polyps Diagnose Ethmoidal and Antrochoanal Polyps based on histor clinical findings and investigation findings Discuss management plans for Ethmoidal and Antrochoa
• 22. Nc •	Discuss the etiology, clinical presentation, investigation treatment and complications of Deviated Nasal Septum <b>Isal Polyps</b> Define Polyps Diagnose Ethmoidal and Antrochoanal Polyps based on histor clinical findings and investigation findings Discuss management plans for Ethmoidal and Antrochoan Polyps

- Classify Nasal Septal diseases
- Discuss the etiology, clinical presentation, investigations,

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t	reatment and differential diagnose of Nasal Septal diseases
• [	Describe etiology and pathophysiology for syphilis and leprosy.
• [	Diagnose syphilis and leprosy based on symptoms and signs
0	and investigation findings
24. Acu	te and chronic sinusitis
• [	Discuss the etiology, pathophysiology, clinical presentation,
e	examination findings, investigations, differential diagnosis and
tı	reatment plans for: Acute Sinusitis and Chronic Sinusitis.
• B	ased on data provided, diagnose complications of the above
n	nentioned conditions
• S	uggest treatment plan for these conditions
25. Nas	al Trauma and Rhinoliths
•	Discuss types of foreign bodies in nose and principles of their
	management
•	Discuss the diagnosis and management of Rhinoliths
•	Diagnose nasal fractures based on history and clinical
	presentations
•	Discuss the basics of management plan for nasal fractures
26. Gro	anulomatous Disorders
•	Discuss the differential diagnosis of Granulomatous disorders
•	Explain the diagnostic features and principles of management
	of:
	i. Invasive Aspergillosis
	ii. Mucormycosis
	iii. Wegener's Granulomatosis
27. Sine	o-Nasal Tumors
E	explain the diagnostic features and principles of management
C	of:

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<ul> <li>carcinoma.</li> <li>30. Inflammatory Conditions of Oropharynx <ul> <li>Justify diagnosis, investigations, differential diagnosis treatment plans for Acute and Chronic Pharyngitis.</li> </ul> </li> <li>31. Tonsils <ul> <li>Justify diagnosis, investigations, differential diagnosis treatment plans for Tonsillitis, Peri-tonsillitis and abscess.</li> </ul> </li> <li>32. Adenoids <ul> <li>Justify diagnosis, investigations, differential diagnosis atreatment plans for Tonsillitis, Peri-tonsillitis and abscess.</li> </ul> </li> <li>33. Malignant Conditions of Oropharynx</li> </ul>	<ul> <li>ii. Malignant tumors of nose and Paranasal sinuses</li> <li><b>5. Fungal sinusitis</b></li> <li>Diagnose Fungal sinusitis based on data provided</li> <li>Discuss management plan for Fungal sinusitis</li> </ul> <b>PHARYNX Pharynx</b>
<ul> <li>28. Fungal sinusitis</li> <li>Diagnose Fungal sinusitis based on data provided</li> <li>Discuss management plan for Fungal sinusitis</li> <li>PHARYNX</li> <li>29. Malignant Conditions of Nasopharynx <ul> <li>Describe the diagnosis and treatment plan for Juv Nasopharyngeal Angiofibroma and Nasopharyn carcinoma.</li> </ul> </li> <li>30. Inflammatory Conditions of Oropharynx <ul> <li>Justify diagnosis, investigations, differential diagnosis treatment plans for Acute and Chronic Pharyngitis.</li> </ul> </li> <li>31. Tonsils <ul> <li>Justify diagnosis, investigations, differential diagnosis treatment plans for Tonsillitis, Peri-tonsillitis and abscess.</li> </ul> </li> <li>32. Adenoids <ul> <li>Justify diagnosis, investigations, differential diagnosis treatment plans for Tonsillitis, Peri-tonsillitis and abscess.</li> </ul> </li> <li>33. Malignant Conditions of Oropharynx <ul> <li>Explain the diagnostic features, investigations and outling</li> </ul> </li> </ul>	<ul> <li>Fungal sinusitis</li> <li>Diagnose Fungal sinusitis based on data provided</li> <li>Discuss management plan for Fungal sinusitis</li> <li>PHARYNX</li> <li>Malignant Conditions of Nasopharynx</li> </ul>
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<ul> <li>33. Malignant Conditions of Oropharynx</li> <li>Explain the diagnostic features, investigations and outline</li> </ul>	<ul> <li>Justify diagnosis, investigations, differential diagno</li> </ul>
• Explain the diagnostic features, investigations and outlin	treatment plans and complications for Adenoid Hyperplas
	3. Malignant Conditions of Oropharynx
treatment plan for Squamous cell carcinoma	• Explain the diagnostic features, investigations and outline
	treatment plan for Squamous cell carcinoma
34. Conditions of Nasopharynx	4. Conditions of Nasopharynx
Describe the diagnosis and treatment plan for Plummer-V	Describe the diagnosis and treatment plan for Plummer-Vins
syndrome & Hypopharyngeal Carcinoma	syndrome & Hypopharyngeal Carcinoma
	LARYNX

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35. A	cute and chronic inflammations of larynx
•	Describe the etiology, pathophysiology, clinical presentati
	investigation findings and treatment plans for Supraglottitis c
	laryngitis, vocal polyp and Acute Laryngo-Tracheobronchitis
36. Vo	ocal Nodules and Paralysis
•	Describe the etiology, pathophysiology, investigations o
	principles of treatment for Vocal Nodules and Vocal c
	paralysis
37. Be	enign & Malignant laryngeal tumors
•	Classify Laryngeal tumors
•	Diagnose Papilloma Larynx, Laryngeal Polyps based
	symptoms and signs, and investigation findings
•	Discuss the etiology, clinical features, investigation findings
	and differential diagnosis of Laryngeal Carcinoma
•	justify diagnosis, investigations, and differential diagnosis fo
	Pyriform Fossa Carcinoma, and Post-Cricoid Carcinoma
38. Di	phtheria
•	Describe the etiology and pathophysiology of Diphtheria
•	Diagnose Diphtheria based on symptoms and signs a investigation findings
•	Develop treatment and follow plans for the above mention condition
39. Co	ongenital Conditions of Larynx
	• Describe the diagnosis and principles of treatment
	Laryngomalacia and Juvenile recurrent laryng
	Papillomatosis
	OESOPHAGUS
40 .	ero-Digestive tract

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	Discuss foreign bodies in the aero-digestive tract and the
	principles of their management
ſ	41. Dysphagia
	• Describe etiology, pathophysiology, differential diagnosis and
	investigations for dysphagia (oral, pharyngeal and esophageal)
	• Justify diagnosis, investigations, and differential diagnosis for
	common conditions of the hypo-pharynx (including Plummer-
	Vinson or Paterson-Kelly syndrome, pharyngeal pouch (zenker
	diverticulum)
	• Describe indications, contraindications and complication of
	Esophagostomy
	NECK
,	42. Neck masses and fistulas
	Classify Neck masses
	Justify diagnosis, differential diagnosis, investigations and
	treatment plans for Neck masses
	<ul> <li>Justify diagnosis, investigations, differential diagnosis</li> </ul>
	and treatment plans for Ludwig's angina,
	ParaPharyngeal and Acute and Chronic
	Retropharyngeal abscesses
	43. Neck fistulas
	Classify fistulas
	<ul> <li>Justify diagnosis, differential diagnosis, investigations and</li> </ul>
	<ul> <li>Justify alignosis, ameremial alignosis, investigations and treatment plans for Neck fistulas</li> </ul>
	<ul> <li>Diagnose Hypoglossal cyst/ sinus, Branchial Cyst and Branchial Fistula</li> </ul>
	44. Tracheostomy
•	
_	• Describe the indications, contraindications, complications,

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	operation steps and post-operative care for tracheostomy
	45. Diseases of Thyroid and Parathyroid
	<ul> <li>Classify benign and malignant conditions of Thyroid</li> </ul>
	and Para-Thyroid
	<ul> <li>Explain the diagnostic features, Pathophysiology,</li> </ul>
	investigation findings and treatment plans for benign
	conditions of Thyroid and ParaThyroid glands
	<ul> <li>Explain the diagnostic features, Pathophysiology,</li> </ul>
	investigation findings and treatment plans for malignant
	conditions of Thyroid and ParaThyroid glands
	Sleep Apnea Syndrome
	<ul> <li>Justify diagnosis, investigations, differential diagnosis and</li> </ul>
	treatment plans for Sleep Apnea and Sleep apnea syndrome
PATHOLOGY	1. Pathogens causing infections of the ear.
	<ul> <li>List the pathogens causing infections of the ear</li> </ul>
	<ul> <li>Discuss the pathophysiology and clinical features of the</li> </ul>
	infections.
	2. Pathogens causing infections of the nose.
	<ul> <li>List the pathogens causing infections of the nose</li> </ul>
	• Discuss the pathophysiology and clinical features of the
	infections.
	3. Pathogens causing infections of the throat.
	<ul> <li>List the pathogens causing infections of the throat</li> </ul>
	<ul> <li>Discuss the pathophysiology and clinical features of the</li> </ul>
	infections.
ENT INSTRUMENT	By the end of the rotation in ENT, student should be able to identify the
IDENTIFICATION	instruments listed below and discuss their indications and
	contraindications (where applicable):

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1		JINNAH SINDH MEDICAL UNIVERSITY
	1.	Adenoid curette
	2.	Asch's and Walsham's Forceps
	3.	Ashe's Forceps
	4.	Ballenger Swivel Knife
	5.	Boyle Davis mouth gag
	6.	Bronchoscopes (Rigid/flexible)
	7.	Ear speculum
	8.	Ear Syringing instruments
	9.	Endotracheal Tube, Cuffed/Non-cuffed
	10.	Fibro-optic Direct Laryngoscope
	11.	Freer elevator
	12.	Head lights
	13.	Indirect laryngoscopic mirror
	14.	Jobson's Horne probe
	1.	Laryngoscope Macintosh
	15.	Luc's forceps
	16.	Metallic and Nonmetallic Tracheostomy Tubes
	17.	Metallic Tongue depressor
	18.	Nasal Snare
	19.	Nasal Speculum: Thudicum and Killian
	2.	Nasopharyngoscope
	20.	Negus Knot Tier or Knot pusher
	3.	Oesophagoscopes
	21.	Otoscope

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	22. Pharyngeal Sucker	
	23. Posterior Rhinos copy mirror	
	24. Suction nozzle	
	25. Suction Tube	
	26. Tilly's Nasal Dressing Forceps	
	27. Tonsil holding forceps	
	28. Tonsil snare	
	29. Tonsillar artery forceps	
	30. Tonsillar Dissector	
	31. Tracheal Dilator	
	32. Trocar and Cannula	
	33. Tuning forks	
CLINICAL	By the end of the ENT rotation, students should be able to:	
SKILLS	<ul> <li>Examine Cranial nerves relevant to ENT (Olfactory nerve, Trigeminal nerve, Facial nerve, Vestibulocochlear nerve, Glossopharyngeal nerve, Hypoglossal nerve)</li> </ul>	
	• Examine ear for foreign body and of posterior nasal space by posterior Rhinoscopy	
	• Examine the oropharynx and the neck of real patients under direct supervision	
	<ul> <li>Palpate the neck to assess the lymph-nodes and salivary glands in the neck</li> </ul>	
	<ul> <li>Perform a complete regional examination on real patients correctly</li> </ul>	

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	<ul> <li>supervision</li> <li>Take history appropriately from a patient with an ENT related condition</li> </ul>
	Use nasal speculum appropriately for examination
	• Use otoscope to aid in examination of the external auditory canal and the tympanic membrane
	• Use the finger palpation method for examination of oral cavity and tongue
	Use the tongue blade to aid inspection of the buccal cavity
	<ul> <li>Use tuning forks for hearing tests and interpretation of the findings</li> </ul>
	Write clear and focused histories legibly in order to make correct provisional diagnoses
PROFESSIONAL	Demonstrate punctuality and regularity in all teaching sessions
BEHAVIOR	<ul> <li>Deal with colleagues (peers, seniors and juniors), other members of the health care team and patients and their attendants with respect</li> </ul>
	<ul> <li>Demonstrate compassion and ethical behavior while dealing with patients (i.e. during history taking, examinations and discussions)</li> </ul>
	<ul> <li>Demonstrate empathy towards the health care team members and patients (along with their attendants) through verbal and non-verbal communication</li> </ul>
	<ul> <li>Demonstrate clarity in verbal and written communications at all times</li> </ul>

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INTERNAL	Internal assessment will be according to JSMU policy. The details
ASSESSMENT	of internal assessment will be determined by the respective
	institutions.
	• Internal assessment carries 20% weightage in the final, end- of -
	year examination
ANNUAL	<ul> <li>MCQs and OSCE/OSPE (observed + unobserved)</li> </ul>
EXAMINATION	
COURSE	Course will be evaluated through a feedback form which will
EVALUATION	be posted on the JSMU website