

**Topic: Anatomy and Physiology of ear, nose, throat, head and neck (2 competencies)**

| <b>No</b> | <b>COMPETENCY</b><br><b>The student should be able to:</b>   |   |
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| EN1.1     | <p>Describe the Anatomy &amp; physiology of ear, nose, throat, head &amp; neck in detail &amp; precise anatomic and physiologic terms</p> <p><b>Ear</b></p> <ol style="list-style-type: none"> <li>1) Describe external ear</li> <li>2) Describe nerve supply of external ear and the sites of referred pain.</li> <li>3) Draw a neat labelled diagram of the tympanic membranes of both sides.</li> <li>4) Draw a neat labelled diagram of the medial wall of middle ear cavity</li> <li>5) Enumerate all groups of mastoid air cells</li> <li>6) Draw and label the cochlea cross sectional anatomy</li> <li>7) Describe the auditory pathway</li> <li>8) Describe middle ear transformer mechanism</li> <li>9) Describe the role of cochlea in hearing</li> <li>10) Describe the physiology of balance</li> <li>11) Describe structure and functions of the Eustachian tube</li> </ol> <p><b>Nose</b></p> <ol style="list-style-type: none"> <li>1) Identify parts of external nose</li> <li>2) Enumerate the functions of nose and sinuses</li> <li>3) Draw a labelled diagram of the lateral wall of the nose identifying structures opening into them.</li> <li>4) Draw a neat labelled diagram of the ostiomeatal complex</li> <li>5) Draw a neat labelled diagram of the septum</li> <li>6) Draw a neat labelled diagram of the blood supply of septum</li> <li>7) In Xray PNS identify the septum and sinuses</li> <li>8) In a CT PNS be able to identify the sinuses and the ostiomeatal complex</li> <li>9) Draw a labelled diagram of the olfactory pathway</li> </ol> <p><b>Throat and Head &amp; Neck</b></p> <ol style="list-style-type: none"> <li>1) List the layers of the pharyngeal wall</li> <li>2) Describe the parts of the pharynx and</li> <li>3) Draw labelled diagram of Waldeyer's ring</li> <li>4) List the differences between the palatine tonsil and adenoids</li> <li>5) Describe the cartilages of the larynx</li> <li>6) Describe the nerve supply of the larynx</li> <li>7) Draw a neat labelled diagram of the blood supply of the tonsil</li> <li>8) Draw and label the various triangles of the neck</li> </ol> | <p><b>Domain</b> K /S/A/C<br/> <b>Level</b> K/-KH/ SH/P<br/> <b>Core</b> (Y /N)<br/> <b>Suggested Teaching Learning method –Lecture, Tutorial with demonstration using model.</b><br/> <b>Suggested Assessment method- Written</b><br/> <b>Number required to certify 6</b><br/> <b>Vertical /Horizontal Integration – Anatomy (36.1 to 36.5,37.1 to 37.3,38.1 to 38.3,39.2,40.1 to 40.5)</b></p> |

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|       | <p>9) In anXRy soft tissue nasopharynx lateral view, mark the adenoids and interpret the degree of airway obstruction</p> <p>10) Name the muscles of deglutition</p> <p>11) List the functions of the larynx</p> <p>12) Describe briefly, the physiology of phonation</p> <p><b>13) Describe the stages of deglutition</b></p> |   |
| EN1.2 | <p>Describe the pathophysiology of common diseases in ENT</p> <p>The student will become familiar with the pathophysiology of each disease process.</p>  | <p><b>Domain</b> K /S/A/C</p> <p><b>Level</b> <del>K</del>/KH/ SH/P</p> <p><b>Core</b> (Y /N)</p> <p><b>Suggested Teaching Learning method</b> –Lecture, Tutorial.</p> <p><b>Suggested Assessment method-</b> Written</p> <p><b>Number required to certify</b> 6</p> <p><b>Vertical /Horizontal Integration-Physiology (PY 10.13,10.15,10.16,10.20),Pathology</b></p> |

**Topic: Clinical skills (15 competencies)**

| No  | COMPETENCY<br>The student should be able to:   |   |
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| 2.1 | <p>Elicit record and describe in detail the components of history and examination of a complete ear,nose, throat &amp; head and neck examination</p> <ol style="list-style-type: none"> <li>1) List the common complaints in patients with ENT symptoms</li> <li>2) Demonstrate history taking for ENT diseases in a fellow student / simulated patient</li> <li>3) Demonstrate history taking in a given patient with ENT symptoms</li> <li>4) Record 10 case histories of patients with ear, nose and throat symptoms in a journal.</li> </ol> | <p><b>Domain</b> K/S/A/C</p> <p><b>Level</b> <del>K</del>/KH/ SH/P</p> <p><b>Core</b> (Y/N)</p> <p><b>Suggested Teaching Learning method:</b> Lecture,Small group discussion,Bedside demonstration</p> <p><b>Suggested Assessment method - skill assessment</b></p> <p><b>Number required to certify</b> 3</p> <p><b>Vertical /Horizontal Integration</b></p> |
| 2.2 | <p>Demonstrate the correct use of a headlamp in the examination of the ear, nose and throat</p>  | <p><b>Domain</b> <del>K</del>/ S/A/C</p> <p><b>Level</b> <del>K</del>/KH/ SH/P</p> <p><b>Core</b> (Y/N)</p>   |

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|              | <p>The student will be able to correctly use a head lamp to examine external ear, anterior rhinoscopy &amp; oral cavity</p> <ol style="list-style-type: none"> <li>1) Describe the type, focal length and diameter of the head mirror</li> <li>2) Demonstrate on a fellow student the correct use of the head mirror</li> <li>3) Demonstrate on a patient the correct use of the head mirror</li> <li>4) List the other methods of illumination for examination used in the ENT OPD</li> </ol>  | <p><b>Suggested Teaching Learning method- DOAP session</b><br/> <b>Suggested Assessment method-- skill assessment, OSCE</b><br/> <b>Number required to certify 3</b><br/> <b>Vertical /Horizontal Integration</b></p>   |
| <b>2.3</b>   | <p>Demonstrate the correct technique of examination of the ear &amp; tympanic membrane by correct use of a head lamp and otoscope.<br/> Learn about the cone of light. Use the ear drum as a window into the middle ear.</p> <ol style="list-style-type: none"> <li>1) Demonstrate the correct way of holding the instruments</li> <li>2) Demonstrate on fellow student the correct technique examination of the ear including otoscopy</li> <li>3) Demonstrate on a patient examination of the ear including otoscopy</li> </ol>   | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH</del>/SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method- DOAP session</b><br/> <b>Suggested Assessment method-- skill assessment, OSCE</b><br/> <b>Number required to certify 3</b><br/> <b>Vertical /Horizontal Integration</b></p>            |
| <b>EN2.4</b> | <p>Demonstrate the correct technique of performance and interpret tuning fork tests (K/S/A, SH)</p> <ol style="list-style-type: none"> <li>1) List the parts of a tuning fork</li> <li>2) Explain the choice of tuning forks used in ENT OPD</li> <li>3) Describe the technique of setting the tuning fork in vibration</li> <li>4) List all the tuning fork tests (TFTs) that may be used to test hearing</li> <li>5) Describe the Rinne's, Weber's and absolute bone conduction (ABC) tests</li> <li>6) Demonstrate the above TFTs in at least three fellow students</li> <li>7) In a set of five simulated patients, perform and correctly interpret the above TFTs with 80% accuracy</li> <li>8) Perform and correctly interpret the above TFTs in at least three patients</li> </ol> | <p><b>Domain</b> <del>K</del>/S/A/C<br/> <b>Core</b> (Y/N)<br/> <b>Level</b> <del>K/KH</del>/SH/P<br/> <b>Suggested Teaching Learning method- DOAP session, bedside</b><br/> <b>Suggested Assessment method-- skill assessment, OSCE</b><br/> <b>Number required to certify 3</b></p>                                     |
| <b>EN2.5</b> | <p>Demonstrate the correct technique of examination of the nose &amp; paranasal sinuses including the use of nasal speculum</p> <ol style="list-style-type: none"> <li>1) The student will be able to correctly perform anterior rhinoscopy and demonstrate the proper way of holding the Thudichum speculum</li> <li>2) Demonstrate examination of nose and PNS, in fellow students and patients</li> </ol>  | <p><b>Domain</b> <del>K</del>/S/A/C<br/> <b>Level</b> <del>K/KH</del>/SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method- DOAP session</b><br/> <b>Suggested Assessment method-- skill assessment, OSCE</b><br/> <b>Number required to certify 3</b><br/> <b>Vertical /Horizontal Integration</b></p> |

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|              | 3) Focus on size, shape, swelling, scars and any deviation. Assessment for nasal obstruction by polyps, turbinate enlargement, gross septal deviation, discharge, crusting and any offensive smell  |  |
| <b>EN2.6</b> | <p>Demonstrate the correct technique of examining the throat including the use of a tongue depressor<br/>The student will be able to correctly perform examination of oral cavity &amp; oropharynx systemically using a bright torch, tongue depressor. This includes examination of the tongue, hard and soft palate, tonsillar fossa, gingivolabial/gingivobuccal sulci, floor of the mouth and the undersurface of the tongue.</p> <ol style="list-style-type: none"> <li>1) Demonstrate the proper way of holding the tongue depressor</li> <li>2) Demonstrate examination of oral cavity and oropharynx, in fellow students and patients.</li> </ol> | <p><b>Domain</b> <del>K/</del> S/A/C<br/> <b>Level</b> <del>K/KH/</del> SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> DOAP session<br/> <b>Suggested Assessment method--</b> skill assessment, OSCE<br/> <b>Number required to certify</b> 3<br/> <b>Vertical /Horizontal Integration</b></p>                  |
| <b>EN2.7</b> | <p>Demonstrate the correct technique of examination of Head neck including elicitation of laryngeal crepitus<br/>1)The student will be able to correctly perform examination of head and neck including lymph nodes esp.jugulodigastric lymph nodes &amp; laryngeal crepitus.<br/>2)The student will be able to characterize cervical lymph node levels I-VI.<br/>3)How to systematically palpate the neck, thyroid and salivary glands</p>   | <p><b>Domain</b> <del>K/</del> S/A/C<br/> <b>Level</b> <del>K/KH/</del> SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> DOAP session<br/> <b>Suggested Assessment method--</b> skill assessment, OSCE<br/> <b>Number required to certify</b> 3<br/> <b>Vertical /Horizontal Integration</b></p>                  |
| <b>EN2.8</b> | <p>Observe the correct technique to perform and interpret pure tone audiogram &amp; impedance audiogram.<br/>Audiogram (observe and interpret)<br/>How acute and chronic hearing loss is investigated. Audiogram, conductive and sensorineural hearing loss</p> <ol style="list-style-type: none"> <li>1) Describe the steps of PTA</li> <li>2) Describe the technique of masking</li> <li>3) Describe the technique of Tympanometry.</li> <li>4) Observing an ongoing audiometry</li> </ol>  | <p><b>Domain</b> K/S/A/<del>C</del><br/> <b>Level</b> <del>K/KH/</del> SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> DOAP session,outpatient clinic<br/> <b>Suggested Assessment method--</b> skill assessment, OSCE<br/> <b>Number required to certify</b> 5<br/> <b>Vertical /Horizontal Integration</b></p> |
| <b>EN2.9</b> | <p>Choose correctly and interpret radiological, microbiological &amp; histological investigations relevant to the ENT disorders</p> <p>Identify when advanced examination or testing or imaging may be required : head and neck cancer, otologic disease, speech and hearing disorders, facial trauma, facial</p>   | <p><b>Domain</b> K/S/A/<del>C</del><br/> <b>Level</b> <del>K/KH/</del> SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture,DOAP session,outpatient clinic</p>  |

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|               | <p>reconstruction, skull base tumors and sinus disease, congenital head and neck anomalies, and infections of the head &amp; neck.</p> <ol style="list-style-type: none"> <li>1) From a given set of imaging films, each student should be able to describe the salient features &amp; state the correct diagnosis or differential diagnosis</li> <li>2) List five common indications for taking swab for culture sensitivity in ENT</li> <li>3) Describe the histological characteristics of common ENT conditions esp.tubercular lymphadenitis</li> </ol>      | <p><b>Suggested Assessment method—Viva voce, skill assessment</b><br/> <b>Number required to certify 5</b><br/> <b>Vertical /Horizontal Integration</b></p>   |
| <b>EN2.10</b> | <p>Identify and describe the use of common instruments used in ENT OPD &amp; surgery. The student will become familiar with equipment for clinical examination and also for standard open surgical procedures, endoscopic surgery, and microscopic surgery (otologic surgery)</p> <p>1)Be able to correctly name,describe and list the use/s and demonstrate the correct way of holding a given instrument</p>   | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH</del>/ SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method- DOAP session,demonstration in OT</b><br/> <b>Suggested Assessment method Viva voce, skill assessment</b><br/> <b>Number required to certify 3</b><br/> <b>Vertical /Horizontal Integration</b></p>                  |
| <b>EN2.11</b> | <p>Describe and identify by clinical examination, malignant &amp; pre- malignant ENT diseases</p> <ol style="list-style-type: none"> <li>1)Identify when advanced examination or testing may be required :<br/>Head and neck cancer. When to refer if biopsy indicated.<br/>Neck lumps How to assess the neck</li> <li>2)Hoarse voice Who to refer for laryngoscopy</li> <li>3)Difficulty in swallowing Who to refer for further assessment</li> <li>4)Mouth ulcers Use of oral steroids, antibiotics, anti-fungal Rx, mouth washes. Systemic causes.</li> </ol> | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH</del>/ SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method- Lecture,demonstration in outpatient clinic</b><br/> <b>Suggested Assessment method—Written,viva voce,skill assessment</b><br/> <b>Number required to certify 5</b><br/> <b>Vertical /Horizontal Integration</b></p> |
| <b>EN2.12</b> | <p>Counsel and administer informed consent to patients and their families in a simulated environment</p> <p><b>Professionalism</b> Punctuality<br/>Participation in clinics, didactics and rounds with team</p> <p><b>Communication Skills</b> Describe the salient components of an informed consent</p>  | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH</del>/ SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-DOAP session,outpatient clinic</b><br/> <b>Suggested Assessment method—skill assessment</b><br/> <b>Number required to certify 3</b><br/> <b>Vertical /Horizontal Integration</b></p>                                |
| <b>EN2.13</b> | <p>Identify, resuscitate and manage ENT emergencies in a simulated environment (including tracheostomy, anterior nasal packing, removal of foreign bodies in ear, nose, throat and upper respiratory tract).</p>   | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH</del>/ SH/P<br/> <b>Core</b> (Y/N)</p>   |

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|               | For a given ENT emergency, list the stepwise protocol of management and relevant investigations<br>Must assist following procedure listed below:<br>Nasal packing<br>Foreign bodies How to remove and when not to try                                    | Tracheotomy | <b>Suggested Teaching Learning method-DOAP session,outpatient clinic</b><br><b>Suggested Assessment method—skill assessment</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration</b>   |
| <b>EN2.14</b> | Demonstrate the correct technique to instilling ear drops,nose drops, nasal sprays,<br>Topical nasal ointments<br>Awareness of risk of hypersensitivity.<br>Topical nasal decongestants<br>Awareness of dangers of prolonged use i.e. rebound congestion |             | <b>Domain</b> K/S/A/C<br><b>Level</b> <del>K/KH/</del> SH/P<br><b>Core</b> (Y/N)<br><b>Suggested Teaching Learning method- DOAP session,demonstration in OPD</b><br><b>Suggested Assessment method -skill assessment</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration</b>          |
| <b>EN2.15</b> | Describe the national programs for prevention of deafness, cancer noise & environmental pollution<br>Awareness of NPPCD,cancer , noise pollution and should be able to counsel patients regarding prevention.<br>Describe occupational hazards in E.N.T. |             | <b>Domain</b> K/S/A/C<br><b>Level</b> <del>K/KH/SH/</del> P<br><b>Core</b> (Y/N)<br><b>Suggested Teaching Learning method-Lecture,Tutorial</b><br><b>Suggested Assessment method-Written,Viva Voce</b><br><b>Number required to certify P</b><br><b>Vertical /Horizontal Integration-Community Medicine(CM 3.1)</b> |

**Topic: Diagnostic and Therapeutic procedures (06 competencies)**

| <b>No</b> | <b>COMPETENCY</b><br><b>The student should be able to:</b>   |  |
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| EN<br>3.1 | Observe and describe the indications for and steps involved in the performance of Otomicroscopic examination<br>Observe tympanic membrane with microscope :<br>1) Know the indications for performing otomicroscopy (EUM)<br>2) Describe suction microscopy for aural toilet | <b>Domain</b> <del>K/S/A/</del> C<br><b>Level</b> <del>K/KH/SH/</del> P<br><b>Core</b> (Y/N)<br><b>Suggested Teaching Learning method-Demonstration in OPD</b><br><b>Suggested Assessment method-Viva voce</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration</b> |
| EN3.2     | Observe and describe the indications for and steps involved in the performance of diagnostic nasal Endoscopy<br>Become aware of diagnostic nasal endoscopy and flexible fibreoptic nasal endoscopy<br>1) List all the normal structures seen in DNE                          | <b>Domain</b> <del>K/S/A/</del> C<br><b>Level</b> <del>K/KH/SH/</del> P<br><b>Core</b> (Y/N)<br><b>Suggested Teaching Learning method-Lecture, Demonstration</b><br><b>Suggested Assessment method- Viva voce</b>  |

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|       | <ol style="list-style-type: none"> <li>2) List common indications for performing a DNE</li> <li>3) List the major steps (1st, 2<sup>nd</sup> &amp; 3<sup>rd</sup> pass )while performing a DNE</li> <li>4) By observing DNE, the students should be familiar with common lesions</li> </ol>  | <b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration</b>  |
| EN3.3 | <p>Observe and describe the indications for and steps involved in the performance of Rigid/Flexible Laryngoscopy</p> <p>Assist flexible laryngoscopy</p> <ol style="list-style-type: none"> <li>1) Draw and label the normal structures seen in IDL.</li> <li>2) List common indications for performing ILS/FOL</li> <li>3) Describe the procedure of IDL.</li> <li>5) By observing FOL, all the students should be familiar with common lesions</li> </ol>  | <b>Domain K/S/A/C</b><br><b>Level <del>K/KH/SH/P</del></b><br><b>Core (Y/N)</b><br><b>Suggested Teaching Learning method- Lecture, Demonstration</b><br><b>Suggested Assessment method- Viva voce</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration</b>         |
| EN3.4 | <p>Observe and describe the indications for and steps involved in the removal of foreign bodies from ear nose &amp; throat</p> <p>Foreign bodies How to remove and when not to try</p> <ol style="list-style-type: none"> <li>1) List common sites of impaction in the EAC</li> <li>2) List the complications of impacted foreign bodies</li> <li>3) Describe the methods of removal of foreign bodies from ear, nose and throat, including complications of the procedures</li> <li>4) Correctly identify the instruments used for removal of foreign bodies in the ear, nose and throat</li> </ol>   | <b>Domain K/S/A/C</b><br><b>Level <del>K/KH/SH/P</del></b><br><b>Core (Y/N)</b><br><b>Suggested Teaching Learning method- Lecture, Demonstration</b><br><b>Suggested Assessment method-Written,Viva voce</b><br><b>Number required to certify 6</b><br><b>Vertical /Horizontal Integration</b>  |
| EN3.5 | <p>Observe and describe the indications for, steps involved &amp; complications in the surgical procedures in ear, nose &amp; throat</p> <p>The student will be introduced to the surgical techniques of endoscopic surgery, standard open surgical procedures, and microscopic surgery (otology).</p> <ol style="list-style-type: none"> <li>1) Enumerate indications for myringotomy</li> <li>2) Enumerate indications for myringoplasty &amp; tympanoplasty</li> <li>3) Enumerate indications for septoplasty &amp; submucous resection</li> <li>4) Enumerate indications for adenoidectomy and tonsillectomy.</li> </ol> <p>The students should describe the steps of above.</p> <ol style="list-style-type: none"> <li>1.Enumerate indications for modified radical mastoidectomy</li> <li>2.Enumerate indications for functional endoscopic sinus surgery</li> </ol> | <b>Domain K/S/A/C</b><br><b>Level <del>K/KH/SH/P</del></b><br><b>Core (Y/N)</b><br><b>Suggested Teaching Learning method- Lecture, Demonstration</b><br><b>Suggested Assessment method- Written,Viva voce</b><br><b>Number required to certify 5</b><br><b>Vertical /Horizontal Integration</b> |

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|       | <p>3.Enumerate indications for microlaryngeal surgery<br/>The students should describe the principles of above.</p> <p>In a given patient scheduled for above surgeries, the students to demonstrate counselling to the patient and attendants.</p>   |  |
| EN3.6 | <p>Observe and describe the indications for and steps involved &amp; complications in emergency procedures in ear, nose &amp; throat</p> <ol style="list-style-type: none"> <li>1) When presented with a patient with epistaxis, the student will be able to perform a differential diagnosis and describe the medical and surgical treatment options for recurrent epistaxis.</li> <li>2) List the indications of anterior and posterior nasal packing</li> <li>3) Describe the steps of anterior and posterior nasal packing</li> <li>4) The student will identify the classic presentation and treatment for a peritonsillar abscess.</li> <li>5) How to recognise , assess, perform a differential diagnosis and discuss a workup plan and possible medical and surgical treatment options and refer if necessary. Infections including suspected epiglottitis, orbital cellulitis and mastoiditis.</li> <li>6) How to recognise , assess, perform a differential diagnosis and discuss a workup plan in Airway obstruction and stridor</li> <li>7) In a given X-Ray, all students should identify the presence and location of foreign body in oesophagus</li> </ol> | <p><b>Domain</b>     <b>K/S/A/C</b><br/> <b>Level</b>       <b>K/KH/SH/P</b><br/> <b>Core</b>         <b>(Y/N)</b><br/> <b>Suggested Teaching Learning method- Lecture, Demonstration</b><br/> <b>Suggested Assessment method- Written,Viva voce</b><br/> <b>Number required to certify 5</b><br/> <b>Vertical /Horizontal Integration</b></p> |

**Topic: Management of diseases of ear, nose and throat (ENT) (53 competencies)**

| <b>No</b>  | <b>COMPETENCY</b><br><b>The student should be able to:</b>  |  |
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| <b>4.1</b> | <p>Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Otalgia<br/>Understanding of causes and management including</p> | <p><b>Domain</b>     <b>K/S/A/C</b><br/> <b>Level</b>       <b>K/KH/ SH/P</b><br/> <b>Core</b>         <b>(Y/N)</b><br/> <b>Suggested Teaching Learning method- Lecture,Bedside clinic</b></p> |

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|                   | <p>temporomandibular problems, toothache and referred otalgia from head &amp; neck neoplasia</p> <ol style="list-style-type: none"> <li>1) Describe the nerve supply of the external and middle ears</li> <li>2) Enumerate causes of otalgia, both direct and referred</li> <li>3) List the questions to be asked, in a stepwise fashion, to a patient with otalgia</li> <li>4) In a simulated case of otalgia, to take and present detailed history and correctly demonstrate all relevant examinations</li> <li>5) In a given patient with otalgia, to three differential diagnoses after history taking and examination</li> <li>6) Enumerate the relevant investigations in a case of otalgia</li> <li>7) For a given diagnosis in a case of otalgia, each student to describe the management protocol</li> <li>8) Demonstrate counselling a patient with otalgia with regard to reassurance</li> </ol>   | <p><b>Suggested Assessment method- Written,Viva voce</b><br/> <b>Number required to certify 5</b><br/> <b>Vertical /Horizontal Integration</b></p>  |
| <p><b>4.2</b></p> | <p>Elicit record and present history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of diseases of the external Ear<br/> Otitis externa,otomycosis,skull base osteomyelitis</p> <ol style="list-style-type: none"> <li>1) Describe the anatomy of the external ear</li> <li>2) List the questions to be asked, in a stepwise fashion, to a patient with symptom of ear block/trauma to ear,etc.</li> <li>3) In a simulated patient, each student to demonstrate all the steps of examination of the external ear</li> <li>4) In a mannequin, each student to demonstrate the correct technique of ear syringing for wax and foreign body removal</li> <li>5) For every given diagnosis of an external ear disorder, each student to write steps of management</li> <li>6) Describe briefly, the pathogenesis of malignant otitis externa and temporal bone osteomyelitis</li> <li>7) Demonstrate counselling a patient with regard to precautions and care related to the external ear</li> </ol> | <p><b>Domain K/S/A/C</b><br/> <b>Level K/KH/ SH/P</b><br/> <b>Core (Y/N)</b><br/> <b>Suggested Teaching Learning method- Lecture,DOAP session,Bedside clinic</b><br/> <b>Suggested Assessment method- Written,Viva voce</b><br/> <b>Number required to certify 5</b><br/> <b>Vertical /Horizontal Integration</b></p> |
| <p><b>4.3</b></p> | <p>Elicit,record and present history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of ASOM<br/> The student will be able to explain progression of acute otitis media</p>  | <p><b>Domain K/S/A/C</b><br/> <b>Level K/KH/ SH/P</b><br/> <b>Core (Y/N)</b><br/> <b>Suggested Teaching Learning method- Lecture,DOAP session,Bedside clinic</b></p>  |

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|                   | <p>at the anatomic level, the common causative organisms, standard medical and surgical treatments and complications of acute otitis media..Appropriate use of analgesia in ENT infections, including otitis media</p> <ol style="list-style-type: none"> <li>1) Describe the anatomy of the middle ear</li> <li>2) Describe the etiopathology of acute suppurative otitis media (ASOM)</li> <li>3) List the symptomatology in case of ASOM</li> <li>4) Enumerate the organisms in the causation of ASOM and list, the antibiotics required</li> <li>5) In a simulated case of child with ASOM, each student to document a detailed history from the parents</li> <li>6) Enumerate the drugs to be prescribed in a diagnosed case of ASOM</li> <li>7) Describe the management protocol in a diagnosed case of ASOM</li> <li>8) List the indications for myringotomy in ASOM</li> <li>9) Describe the technique of myringotomy in ASOM</li> <li>10) Demonstrate counselling the parents of a child with ASOM regarding prognosis and prevention of recurrence</li> </ol> | <p><b>Suggested Assessment method- Written,Viva voce</b><br/> <b>Number required to certify 3</b><br/> <b>Vertical /Horizontal Integration</b></p>   |
| <p><b>4.4</b></p> | <p>Demonstrate the correct technique to visualize the tympanic membrane and its mobility and interpret and diagrammatically represent the findings<br/> Observe tympanic membrane mobility (pneumotoscopy) &amp; with microscope<br/> Common ear abnormalities and pathological conditions<br/> Perforation, tympanosclerosis, , retraction of the drum, haemotympanum</p> <ol style="list-style-type: none"> <li>1) List methods and steps of testing the mobility of the tympanic membrane</li> <li>2) Demonstrate the correct technique of performing the above methods, in a fellow student</li> <li>3) Each student to correctly demonstrate and report the findings of TM mobility testing in a patient</li> </ol>  | <p><b>Domain K/S/A/C</b><br/> <b>Level K/KH/ SH /P</b><br/> <b>Core (Y/N)</b><br/> <b>Suggested Teaching Learning method-Bedside clinic,demonstration</b><br/> <b>Suggested Assessment method-Viva voce,skill assessment</b><br/> <b>Number required to certify 3</b><br/> <b>Vertical /Horizontal Integration</b></p> |
| <p><b>4.5</b></p> | <p>Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations</p>   | <p><b>Domain K/S/A/C</b><br/> <b>Level K/KH/ SH /P</b></p>   |

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|     | <p>and describe the principles of management of OME/ glue ear/ middle ear effusion<br/>Observe tympanic membrane with otoscope/microscope</p> <ol style="list-style-type: none"> <li>1) List symptoms suggestive of OME in a child</li> <li>2) Enumerate the pathological findings in OME.</li> <li>3) Enumerate the points in history-taking from the parents of a child suspected to have OME</li> <li>4) Record a detailed history from the parents of a child suspected to have OME</li> <li>5) Enumerate the two investigations which will clinch the diagnosis.</li> <li>6) Describe the medical management of OME</li> <li>7) List the indications for surgical management in a case of OME in a child.</li> <li>8) Draw diagram to describe the technique of myringotomy for OME</li> </ol>  | <p><b>Core (Y/N)</b><br/><b>Suggested Teaching Learning method-Lecture,Bedside demonstration</b><br/><b>Suggested Assessment method-Written,Viva voce.</b><br/><b>Number required to certify 3</b><br/><b>Vertical /Horizontal Integration</b></p>   |
| 4.6 | <p>Elicit,record and present history,demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Discharging ear. Swab and culture investigation of common organisms eg.Strep.pneumoniae, Haemophilus influenzae.</p> <ol style="list-style-type: none"> <li>1) List common causes of discharging ear</li> <li>2) Enumerate the points in history-taking for the symptom of ear discharge</li> <li>3) Record detailed history from a patient with ear discharge</li> <li>4) Enumerate the investigations in a case of ear discharge</li> <li>5) Describe the principles and technique of aural toilet for a case of discharging ear</li> <li>6) Write a rational prescription for a patient with ear discharge</li> <li>7) Demonstrate counselling a patient with ear discharge for the correct way of instilling ear drops</li> <li>8) Demonstrate counselling of a patient with ear discharge,</li> </ol> | <p><b>Domain K/S/A/C</b><br/><b>Level <del>K/KH</del> SH /P</b><br/><b>Core (Y/N)</b><br/><b>Suggested Teaching Learning method-Lecture,DOAP session,Bedside demonstration</b><br/><b>Suggested Assessment method-Written,Viva voce.</b><br/><b>Number required to certify 3</b><br/><b>Vertical /Horizontal Integration</b></p> |

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|            | regarding management plan and precautions  |   |
| <b>4.7</b> | <p>Elicit record and present ,history describe the clinical features, choose the correct investigations and describe the principles of management of CSOM</p> <p>Swab and culture investigation of common organisms such as Strep.pneumoniae and haemophilus influenzae. Referral for persistent discharge suspecting Cholesteatoma</p> <ol style="list-style-type: none"> <li>1) Describe the classification of CSOM</li> <li>2) Enumerate the differences, between tubotympanic (mucosal) and atticoantral (squamous) types of CSOM</li> <li>3) Draw labelled diagrams showing different types of central perforation.</li> <li>4) Enumerate the points in history-taking for a case of mucosal type of CSOM</li> <li>5) Record a detailed history-taking for a case of mucosal type of CSOM</li> <li>6) List investigations in a case of mucosal type of CSOM</li> <li>7) Describe the stepwise protocol of medical management of mucosal type of CSOM.</li> <li>8) List the indications for surgery in mucosal type of CSOM</li> <li>9) Describe the basic steps in surgery for mucosal type of CSOM</li> <li>10) Demonstrate counselling a patient diagnosed with mucosal type of CSOM, regarding the treatment plan</li> </ol> | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH</del>/ SH /P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-Lecture,DOAP session,Bedside demonstration</b><br/> <b>Suggested Assessment method-Written,Viva voce.</b><br/> <b>Number required to certify 5</b><br/> <b>Vertical /Horizontal Integration</b></p> |
| <b>4.8</b> | <p>Elicit record and present history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of CSOM</p> <ol style="list-style-type: none"> <li>1) Enumerate the points in history and physical examination suggestive of squamosal type of CSOM.</li> <li>2) Describe the theories of pathogenesis of cholesteatoma</li> <li>3) Enumerate the complications of cholesteatoma</li> </ol>  | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH</del>/ SH /P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-Lecture,DOAP session,Bedside demonstration</b><br/> <b>Suggested Assessment method-Written,Viva voce.</b><br/> <b>Number required to certify 5</b><br/> <b>Vertical /Horizontal Integration</b></p> |

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|      | <ol style="list-style-type: none"> <li>4) Enumerate the points in history-taking for a case of squamosal type of CSOM</li> <li>5) Record a detailed history-taking for a case of squamosal type of CSOM</li> <li>6) List investigations in a case of squamosal type of CSOM</li> <li>7) Describe the stepwise protocol of management of squamosal type of CSOM.</li> <li>8) Describe the basic steps in surgery for squamosal type of CSOM</li> <li>9) Demonstrate counselling a patient diagnosed with squamosal type of CSOM, regarding the treatment plan and need for surgery</li> <li>10) List the types of surgeries performed for squamosal type of CSOM</li> <li>11) Describe the principles of modified radical mastoidectomy</li> </ol> |   |
| 4.9  | <p>Demonstrate the correct technique for syringing wax from the ear in a simulated environment Hearing loss including wax management<br/>Removing wax</p> <ol style="list-style-type: none"> <li>1) Describe the method and principles of ear syringing</li> <li>2) Be able to identify the instruments needed for ear syringing</li> <li>3) List complications of syringing</li> <li>4) List other methods of wax removal</li> </ol>   | <p><b>Domain</b> <del>K</del>/S/A/C<br/> <b>Level</b> K/KH/ SH /P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method- Demonstration in OPD</b><br/> <b>Suggested Assessment method-Skill assessment</b><br/> <b>Number required to certify 3</b><br/> <b>Vertical /Horizontal Integration</b></p>  |
| 4.10 | <p>Observe and describe the indications for and steps involved in myringoplasty and tympanoplasty. Observe myringoplasty and tympanoplasty.</p> <ol style="list-style-type: none"> <li>1. List indications for myringoplasty and tympanoplasty.</li> <li>2. Describe the steps involved in myringoplasty and tympanoplasty</li> </ol>   | <p><b>Domain</b> <del>K</del>/S/A/C<br/> <b>Level</b> K/KH/ SH /P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method- Demonstration in OT</b><br/> <b>Suggested Assessment method-Written,Viva voce.</b><br/> <b>Number required to certify 5</b><br/> <b>Vertical /Horizontal Integration</b></p> |

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|             | <ol style="list-style-type: none"> <li>3. Enumerate complications of myringoplasty and tympanoplasty</li> <li>4. Name the objectives of myringoplasty and tympanoplasty</li> <li>5. List the prerequisites for myringoplasty</li> <li>6. Describe the incisions used in otologic surgeries.</li> <li>7. Describe the steps of myringoplasty (underlay technique)</li> </ol>  |   |
| <b>4.11</b> | <p>Enumerate the indications describe the steps and observe a Mastoidectomy<br/>Should know types of mastoidectomy and their respective indications</p> <ol style="list-style-type: none"> <li>1) List the types of Mastoidectomy</li> <li>2) List indications for cortical mastoidectomy</li> <li>3) Describe the steps of cortical mastoidectomy in order with mention of surgical landmarks of mastoid antrum and facial nerve</li> <li>4) List the basic differences between cortical and modified radical mastoidectomy (MRM), including objectives, indications and surgical steps</li> <li>5) List complications specific to mastoidectomy</li> <li>6) In a temporal bone specimen, all students should be able to distinguish between a cortical mastoidectomy and MRM cavity</li> </ol> | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> K/KH/ SH /P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method- Demonstration in OT</b><br/> <b>Suggested Assessment method-Written,Viva voce.</b><br/> <b>Number required to certify 5</b><br/> <b>Vertical /Horizontal Integration</b></p>                                  |
| <b>4.12</b> | <p>Elicit record and present history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Hearing loss<br/>The impact that hearing loss has on individuals and families .<br/>How acute and chronic hearing loss is investigated. Types of hearing loss. Audiogram, conductive and sensorineural hearing loss.<br/>Managing deafness in the community.<br/>Hearing aids - Who would benefit from referral for a hearing aid</p>   | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> K/KH/ SH /P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method- Lecture,group discussion</b><br/> <b>Suggested Assessment method-Written,Viva voce.</b><br/> <b>Number required to certify 5</b><br/> <b>Vertical /Horizontal Integration: General medicine (IM24.17)</b></p> |

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|      | <ol style="list-style-type: none"> <li>1) List and classify common causes of hearing loss (HL)</li> <li>2) Enumerate the points in history-taking for the symptom of HL</li> <li>3) Record a detailed history-taking from a patient with HL</li> <li>4) Enumerate tuning fork tests (TFTs), including two that are used in malingering</li> <li>5) Demonstrate and correctly interpret TFTs (<i>already detailed in another competency</i>)</li> <li>6) List the investigations in a patient with HL</li> <li>7) In a given patient with HL, prescribe the relevant investigations</li> <li>8) List the indications for surgical correction of HL, including cochlear implantation</li> <li>9) List the indications for prescribing hearing aids (HAs) in HL</li> <li>10) Describe briefly the functioning of HAs</li> <li>11) Enumerate the implantable HAs</li> <li>12) Demonstrate counselling of a patient with HL, regarding prognosis and lifestyle modifications</li> <li>13) Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional Describe the aetiopathogenesis of hearing loss in the elderly (presbycusis)</li> <li>14) Demonstrate history taking from an elderly patient and his/her caretakers, regarding hearing loss and handicaps due to it</li> <li>15) Describe the principles of management of hearing loss in the elderly</li> </ol> |  |
| 4.13 | <p>Describe the clinical features, investigations and principles of management of Otosclerosis</p> <p>Should know differential diagnosis of CHL with intact tympanic membrane.</p>   | <p><b>Domain</b> K/S/A/C</p> <p><b>Level</b> K/KH/SH/P</p> <p><b>Core</b> (Y/N)</p> <p><b>Suggested Teaching Learning method-</b> Lecture, Small group discussion</p> <p><b>Suggested Assessment method-</b> Written, Viva voce.</p> |

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|      | <ol style="list-style-type: none"> <li>1) Enumerate the types of hearing loss</li> <li>2) Describe aetiopathophysiology of otosclerosis</li> <li>3) List the typical symptoms and signs in a patient with otosclerosis</li> <li>4) List the relevant investigations in a case of otosclerosis</li> <li>5) In a given set of audiometry reports, each student to correctly identify the one that diagnoses otosclerosis. Identify Carhart's notch &amp; type As curve.</li> <li>6) List the treatment options for otosclerosis</li> <li>7) List the indications for stapedectomy</li> <li>8) Demonstrate counselling for a patient diagnosed to have otosclerosis</li> </ol> | <p><b>Number required to certify 2</b><br/> <b>Vertical /Horizontal Integration</b></p>  |
| 4.14 | <p>Describe the clinical features, investigations and principles of management of Sudden Sensorineural Hearing Loss . How to diagnose and treat early</p> <ol style="list-style-type: none"> <li>1) Define sudden sensorineural hearing loss (SSNHL)</li> <li>2) List the causes of SSNHL</li> <li>3) List the stepwise investigation protocol for suspected case of SSNHL</li> <li>4) List the treatment options for a case of SSNHL</li> <li>5) List the indications for intratympanic (IT) steroid injection for SSNHL</li> <li>6) Demonstrate counselling regarding prognosis in a case of SSNHL</li> </ol>   | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH-SH/P</del><br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture,group discussion<br/> <b>Suggested Assessment method-</b>Written,Viva voce.<br/> <b>Number required to certify 2</b><br/> <b>Vertical /Horizontal Integration</b></p> |
| 4.15 | <p>Describe the clinical features, investigations and principles of management of Noise Induced Hearing Loss and prevention. Importance of creating public awareness about prevention of NIHL</p>   | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH-SH/P</del><br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture,group discussion</p>  |

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|             | <ol style="list-style-type: none"> <li>1) Define noise induced hearing loss (NIHL)</li> <li>2) List the predisposing factors for NIHL</li> <li>3) Describe the pathology of NIHL</li> <li>4) Describe the typical symptoms and signs in a patient with NIHL</li> <li>5) Draw a PTA chart showing typical case of NIHL</li> <li>6) List the treatment options for a case of SSNHL</li> <li>7) Describe the medico-legal aspects of prevention of NIHL</li> <li>8) Demonstrate counselling regarding prognosis and precautions in a case of NIHL</li> </ol> | <p><b>Suggested Assessment method-Written,Viva voce.</b><br/> <b>Number required to certify 2</b><br/> <b>Vertical /Horizontal Integration: Community medicine (CM 3.1)</b></p>   |
| <b>4.16</b> | <p>Observe and describe the indications for and steps involved in the performance of pure tone audiometry<br/> Audiogram (observe and interpret)<br/> How acute and chronic hearing loss is investigated.<br/> Audiogram, conductive , sensorineural and mixed hearing loss</p> <ol style="list-style-type: none"> <li>1) Enumerate the indications of pure tone audiometry (PTA)</li> <li>2) Describe the essential steps in this test</li> <li>3) Describe the technique of masking</li> </ol>  | <p><b>Domain</b> <del>K</del>/<del>S</del>/<del>A</del>/<del>C</del><br/> <b>Level</b> <del>K</del>/<del>KH</del>/<del>SH</del>/<del>P</del><br/> <b>Core</b> (Y/<del>N</del>)<br/> <b>Suggested Teaching Learning method- DOAP session</b><br/> <b>Suggested Assessment method-Written,Viva voce</b><br/> <b>Number required to certify 5</b><br/> <b>Vertical /Horizontal Integration</b></p> |
| <b>4.17</b> | <p>Enumerate the indications and interpret the results of an audiogram<br/> Audiogram (observe and interpret)<br/> How acute and chronic hearing loss is investigated.<br/> Audiogram, conductive and sensorineural hearing loss</p> <ol style="list-style-type: none"> <li>1) Draw typical PTA graph for each given ear condition</li> <li>2) From a given set of audiograms, to correctly interpret results</li> </ol>  | <p><b>Domain</b> <del>K</del>/<del>S</del>/<del>A</del>/<del>C</del><br/> <b>Level</b> <del>K</del>/<del>KH</del>/<del>SH</del>/<del>P</del><br/> <b>Core</b> (Y/<del>N</del>)<br/> <b>Suggested Teaching Learning method-DOAP session</b><br/> <b>Suggested Assessment method-Skill assessment</b><br/> <b>Number required to certify 5</b><br/> <b>Vertical /Horizontal Integration</b></p>   |
| <b>4.18</b> | <p>Describe the clinical features, investigations and principles of management of Facial Nerve palsy<br/> Facial nerve palsy How to assess.Clinical grading. Who to treat</p>   | <p><b>Domain</b> <del>K</del>/<del>S</del>/<del>A</del>/<del>C</del><br/> <b>Level</b> <del>K</del>/<del>KH</del>/<del>SH</del>/<del>P</del><br/> <b>Core</b> (Y/<del>N</del>)</p>  |

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|                    | <p>and how</p> <ol style="list-style-type: none"> <li>1) Describe the surgical landmarks of facial nerve for middle ear, mastoid surgery &amp; for parotid gland surgery</li> <li>2) Explain the Sunderland classification of nerve injuries</li> <li>3) List causes of facial nerve palsy</li> <li>4) List and briefly describe the topodiagnostic and electrodiagnostic tests for facial nerve palsy</li> <li>5) Describe the principles of management of Bell's palsy</li> <li>6) Describe the principles of management of post-surgical facial nerve palsy</li> <li>7) Demonstrate counselling regarding prognosis and reconstructive protocol in a case of facial nerve palsy</li> </ol>  | <p><b>Suggested Teaching Learning method- Lecture,group discussion</b><br/> <b>Suggested Assessment method-Written,Viva voce, Skill assessment.</b><br/> <b>Number required to certify 2</b><br/> <b>Vertical /Horizontal Integration</b></p>   |
| <p><b>4.19</b></p> | <p>Describe the clinical features, investigations and principles of management of Vertigo<br/> In the evaluation of a dizziness patient, perform a differential diagnosis and describe a workup plan. The student will identify and differentiate among the clinical presentations and treatment options for vestibular neuritis, benign paroxysmal positional vertigo, Meniere's Disease, and migraine-associated vertigo. Causes of dizziness, nystagmus, vertigo and unsteadiness. Difference between peripheral and central vestibular disorders including Falls Prevention.</p> <ol style="list-style-type: none"> <li>1) Classify and list the causes of vertigo</li> <li>2) List otologic causes of vertigo</li> <li>3) List the specific points in history taking of a patient with vertigo</li> <li>4) List the set of investigations that may be needed in a patient with vertigo</li> <li>5) Describe the principles of management for vertigo</li> <li>6) List the different groups of drugs for the pharmacotherapy of vertigo</li> </ol> | <p><b>Domain K/S/A/C</b><br/> <b>Level K/KH/SH/P</b><br/> <b>Core (Y/N)</b><br/> <b>Suggested Teaching Learning method- Lecture,group discussion</b><br/> <b>Suggested Assessment method-Written,Viva voce.</b><br/> <b>Number required to certify 5</b><br/> <b>Vertical /Horizontal Integration</b></p> |

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|             | <p>7) Describe the principles of vestibular rehabilitation exercises</p> <p>8) List the indications for surgical treatment for vertigo</p>  |   |
| <b>4.20</b> | <p>Describe the clinical features, investigations and principles of management of Meniere's Disease<br/>The student will identify and differentiate among the clinical presentations and treatment options for vestibular neuritis, benign paroxysmal positional vertigo, Meniere's Disease</p> <ol style="list-style-type: none"> <li>1) Describe the pathophysiology of Meniere's disease (MD)</li> <li>2) Describe the pathognomonic symptoms of MD</li> <li>3) List the set of investigations needed to confirm MD</li> <li>4) Describe the possible PTA patterns in MD</li> <li>5) Describe the principles of management of MD</li> <li>6) List the indications for intra-tympanic Gentamicin injection in a patient with MD</li> <li>7) Demonstrate counselling a patient with MD, regarding prognosis and lifestyle changes</li> </ol> | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K</del>/KH/<del>SH</del>/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture,group discussion<br/> <b>Suggested Assessment method-</b>Written,Viva voce.<br/> <b>Number required to certify</b> 2<br/> <b>Vertical /Horizontal Integration</b></p> |
| <b>4.21</b> | <p>Describe the clinical features, investigations and principles of management of Tinnitus.How to manage and educate patients including habituation versus masking strategies</p> <ol style="list-style-type: none"> <li>1) Define tinnitus</li> <li>2) Enumerate the causes of tinnitus</li> <li>3) List the specific points in history taking of a patient with tinnitus</li> <li>4) Describe the relevant investigations to find the cause of tinnitus</li> <li>5) Describe the principles of management of tinnitus</li> <li>6) List the different groups of drugs for the pharmacotherapy of tinnitus</li> </ol>   | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K</del>/KH/<del>SH</del>/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture,group discussion<br/> <b>Suggested Assessment method-</b>Written,Viva voce.<br/> <b>Number required to certify</b> 2<br/> <b>Vertical /Horizontal Integration</b></p> |

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|      | 7) Demonstrate counselling a patient with tinnitus, regarding prognosis and reassurance  |   |
| 4.22 | <p>Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Nasal Obstruction</p> <p>Nasal obstruction, polyps and allergy<br/>Topical and systemic treatments</p> <ol style="list-style-type: none"> <li>1) List common causes of nasal obstruction</li> <li>2) List the points in history taking of a patient with nasal obstruction</li> <li>3) Demonstrate history taking in patients with different causes of nasal obstruction</li> <li>4) Record complete histories with differential diagnoses of nasal obstruction</li> <li>5) Describe the relevant investigations in a case of nasal obstruction</li> <li>6) In a given patient with nasal obstruction, each student to demonstrate correct technique of anterior and posterior rhinoscopic examination</li> <li>7) Describe the principles of management of nasal obstruction</li> <li>8) Write a rational prescription for the symptomatic relief of nasal obstruction</li> </ol> | <p><b>Domain</b>    <del>K</del>/S/A/C</p> <p><b>Level</b>     <del>K</del>/KH/SH/P</p> <p><b>Core</b>        (Y/N)</p> <p><b>Suggested Teaching Learning method-DOAP session</b></p> <p><b>Suggested Assessment method-Skill assessment</b></p> <p><b>Number required to certify 5</b></p> <p><b>Vertical /Horizontal Integration</b></p>                                |
| 4.23 | <p>Describe the clinical features, investigations and principles of management of DNS</p> <ol style="list-style-type: none"> <li>1) Describe and draw a neat labelled diagram of the nasal septum</li> <li>2) Describe with illustration the different types of DNS</li> <li>3) Describe the history-taking and examination of a patient</li> </ol>  | <p><b>Domain</b>    <del>K</del>/S/A/C</p> <p><b>Level</b>     <del>K</del>/KH/SH/P</p> <p><b>Core</b>        (Y/N)</p> <p><b>Suggested Teaching Learning method- Lecture,group discussion</b></p> <p><b>Suggested Assessment method-Written,Viva voce,skill assessment</b></p> <p><b>Number required to certify 2</b></p> <p><b>Vertical /Horizontal Integration</b></p> |

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|      | <p>with suspected DNS</p> <ol style="list-style-type: none"> <li>4) List the investigations needed in a case of deviated nasal septum</li> <li>5) Enumerate the indications for surgical management in a patient with DNS</li> <li>6) Describe the preoperative counselling of a patient planned for surgical management of DNS</li> <li>7) Describe the steps in the surgical procedure for correction of DNS</li> </ol>  |   |
| 4.24 | <p>Enumerate the indications observe and describe the steps in a Septoplasty &amp; SMR. Should know the differences between SMR &amp; septoplasty.</p> <p>Same set of SLOs as in #1 to 5 above (EN4.23)<br/>In a given patient diagnosed with DNS, each student to describe the need for Septoplasty/SMR.</p> <ol style="list-style-type: none"> <li>1) Describe the steps of Septoplasty/SMR</li> <li>2) Describe the postoperative care of a patient who underwent septoplasty/SMR</li> <li>3) Enumerate the possible complications of septoplasty/SMR</li> </ol>  | <p><b>Domain</b>    <del>K</del>/S/A/C<br/> <b>Level</b>     <del>K</del>/KH/ SH/P<br/> <b>Core</b>        (Y/N)<br/> <b>Suggested Teaching Learning method- DOAP session</b></p> <p><b>Suggested Assessment method-Written,Viva voce</b><br/> <b>Number required to certify 5</b><br/> <b>Vertical /Horizontal Integration</b></p>           |
| 4.25 | <p>Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Nasal Polyps Nasal obstruction, polyps and allergy. Topical and systemic treatments</p> <ol style="list-style-type: none"> <li>1) Enumerate the different types of nasal polyposis</li> <li>2) List the symptoms &amp; signs of patients with nasal polyps</li> <li>3) Record history of a patient with nasal polyposis</li> <li>4) Enumerate the investigations in a case of nasal polyps</li> <li>5) Describe the role of non-surgical management of nasal polyps</li> <li>6) Enumerate the indications and principles basic steps of surgical management (FESS ) in a case of nasal polyps</li> <li>7) Demonstrate counselling for a patient diagnosed with nasal</li> </ol> | <p><b>Domain</b>    <del>K</del>/S/A/C<br/> <b>Level</b>     <del>K</del>/KH/ SH/P<br/> <b>Core</b>        (Y/N)<br/> <b>Suggested Teaching Learning method- Lecture,group discussion</b><br/> <b>Suggested Assessment method-Written,Viva voce</b><br/> <b>Number required to certify 2</b><br/> <b>Vertical /Horizontal Integration</b></p> |

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|      | <p>polyps planned for FESS</p> <p>8) Write a rational prescription for the treatment of a case of allergic sinonasal polyposis</p> <p>9) List the preoperative workup of a patient planned for FESS for nasal polyps</p> <p>10) Enumerate the possible complications of FESS</p> <p>11) Describe the postoperative care of a patient who underwent FESS</p> <p>12) Describe the long term care required after FESS to prevent recurrence of nasal polyps</p>   |  |
| 4.26 | <p>Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Adenoids<br/>Should know difference between adenoids and tonsils.<br/>Should know Adenoid facies</p> <p>1) Describe the clinical features of a patient with adenoid hypertrophy</p> <p>2) In a given case, each student to demonstrate accurate history-taking to elicit a possible diagnosis of adenoid hypertrophy</p> <p>3) Document a correct history of a child with suspected adenoid hypertrophy</p> <p>4) Enumerate the investigations for diagnosis of adenoid hypertrophy</p> <p>5) List the indications for adenoidectomy</p> <p>6) Enumerate the preoperative workup a patient planed for surgical management of adenoid</p> <p>7) Demonstrate the counselling of parents of a child planned for adenoidectomy, including postoperative care</p> <p>8) Describe the steps of adenoidectomy</p> <p>9) Enumerate the different techniques of adenoidectomy</p> <p>10) Enumerate the possible complications of adenoidectomy</p> | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH</del>/ SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture,group discussion<br/> <b>Suggested Assessment method-</b>Written,Viva voce<br/> <b>Number required to certify</b> 2<br/> <b>Vertical /Horizontal Integration</b></p> |
| 4.27 | <p>Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Allergic Rhinitis.Should know difference between allergic &amp; vasomotor</p>   | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH</del>/ SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture,group</p>  |

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|                    | <p>rhinitis</p> <ol style="list-style-type: none"> <li>1. Define allergic rhinitis (AR) Enumerate the different types of allergic rhinitis</li> <li>2. Describe the etiology of allergic rhinitis</li> <li>3. List the common allergens related to AR</li> <li>4. Describe the pathophysiology of AR</li> <li>5. To demonstrate accurate history-taking to elicit a possible diagnosis of AR</li> <li>6. Record a correct history in a patient with suspected AR</li> <li>7. Enumerate the symptoms &amp; the classical signs of AR</li> <li>8. List the investigations for the diagnosis of a case of AR</li> <li>9. Explain the medical management of allergic rhinitis</li> <li>10. Describe the role of surgical management in a patient with AR</li> </ol>   | <p><b>discussion</b><br/> <b>Suggested Assessment method- Written, Viva voce</b><br/> <b>Number required to certify 2</b><br/> <b>Vertical /Horizontal Integration</b></p>  |
| <p><b>4.28</b></p> | <p>Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Vasomotor Rhinitis. Should know surgical treatment of enlarged turbinates</p> <ol style="list-style-type: none"> <li>1) Define Vasomotor rhinitis (VR)</li> <li>2) Describe the etio-pathology of vasomotor rhinitis</li> <li>3) Enumerate the precipitating factors of VR</li> <li>4) To demonstrate accurate history-taking to elicit a possible diagnosis of VR</li> <li>5) Record a history in a patient with suspected VR</li> <li>6) List the symptoms and signs of VR</li> <li>7) Differentiate VR from AR and Infective rhinitis</li> <li>8) Describe the medical management of VR</li> <li>9) Describe the role of surgery in VR</li> </ol> | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH</del>/ SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method- Lecture, group discussion</b><br/> <b>Suggested Assessment method- Written, Viva voce</b><br/> <b>Number required to certify 2</b><br/> <b>Vertical /Horizontal Integration</b></p> |
| <p><b>4.29</b></p> | <p>Elicit, document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Acute &amp; Chronic Rhinitis and facial pain<br/> How to distinguish sinusitis from other causes of facial pain</p> <p>The student will be able to define acute versus chronic</p>  | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH</del>/ SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method- Lecture, group discussion</b><br/> <b>Suggested Assessment method- Written, Viva voce</b><br/> <b>Number required to certify 2</b></p>  |

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|  | <p>rhinosinusitis and explain the common causative organisms and standard treatment for acute rhinosinusitis. In the evaluation of a patient with chronic sinusitis, the student will pinpoint the imaging study of choice and identify all of the sinuses as well as evidence of sinus disease on imaging.</p> <ol style="list-style-type: none"> <li>1) To demonstrate history-taking to elicit a possible diagnosis of rhinitis</li> <li>2) Record history in a patient with suspected rhinitis</li> <li>3) Describe the etiopathology, causative agents, medical treatment &amp; complications of acute non-specific rhinitis</li> <li>4) List the indications for use of antibiotics in acute non-specific rhinitis</li> <li>5) Explain the etiology, clinical features, special investigations &amp; treatment of Influenzal rhinitis</li> </ol> <p>Chronic rhinitis:<br/>Chronic simple rhinitis</p> <ol style="list-style-type: none"> <li>1) List the predisposing factors , pathology, symptoms and signs of chronic simple rhinitis</li> <li>2) Describe the treatment of chronic simple rhinitis</li> </ol> <p>Chronic specific rhinitis</p> <ol style="list-style-type: none"> <li>1) Define granulomas of the nose</li> <li>2) Classify the different types of granulomas of the nose</li> <li>3) Describe the stages of granulomatous conditions of the nose</li> <li>4) Define rhinosporidiosis</li> <li>5) Describe the etiopathogenesis of rhinosporidiosis</li> <li>6) Draw a neat labelled diagram of life cycle of rhinosporidium seeberi</li> <li>7) Describe the mode of transmission in rhinosporidiosis</li> <li>8) Describe the typical history, symptoms and signs &amp; management in a patient with rhinosporidiosis</li> <li>9) List the other causes of chronic specific rhinitis</li> <li>10) Describe the features of tuberculous &amp; syphilitic rhinitis</li> <li>11) Define Rhinoscleroma</li> <li>12) Describe briefly the etiopathology, clinical features and investigations &amp; principles of treatment for rhinoscleroma</li> </ol> | <p><b>Vertical /Horizontal Integration</b></p> |
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|      | <p>13) Draw a diagram showing the histopathological and microbiological features of rhinoscleroma</p> <p>14) Enumerate the 2 types of Midline non-healing granulomas of nose</p> <p>15) Describe the clinical features of &amp; briefly the management principles Wegener's and Stewart's granulomas</p> <p>16) Describe the aetipathology of atrophic rhinitis</p> <p>17) List the symptoms, ARS and DNE findings of atrophic rhinitis</p> <p>18) List the treatment options for atrophic rhinitis</p> <p>19) Describe the indications and principles of surgery in atrophic rhinitis</p> <p>20) Demonstrate counselling a patient of atrophic rhinitis, regarding prognosis and long-term douching</p>  |   |
| 4.30 | <p>Elicit,record,and present a history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Epistaxis.<br/>How to manage recurrent intermittent chronic bleeding and acute heavy bleeding.<br/>Should know steps of anterior &amp; post nasal packing and the complications</p> <ol style="list-style-type: none"> <li>1) Describe the blood supply of the nasal septum</li> <li>2) Describe Little's area and Keisselbach's plexus</li> <li>3) Describe Woodruff's plexus</li> <li>4) Define epistaxis</li> <li>5) List and classify the causes of epistaxis</li> <li>6) Describe the modes of presentation of epistaxis</li> <li>7) List the points in history of a patient presenting in Casualty with epistaxis</li> <li>8) Record history in a given case of epistaxis</li> <li>9) Describe the evaluation of a patient with epistaxis</li> <li>10) Describe the management modalities of anterior &amp; posterior epistaxis</li> <li>11) List the indications of surgical intervention in epistaxis</li> </ol> | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> K/KH/ SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture,group discussion<br/> <b>Suggested Assessment method-Written,Viva voce</b><br/> <b>Number required to certify 2</b><br/> <b>Vertical /Horizontal Integration</b></p> |

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|      | <p><b>12)</b> Demonstrate counselling of a patient with epistaxis, regarding precautions and care</p>  |  |
| 4.31 | <p>Describe the clinical features, investigations and principles of management of trauma to the face &amp; neck. The student will be able to identify associated findings on imaging in anatomic terms, explain the different types of Lefort fractures (I-III), fractures of the mandible &amp; nasal bones and describe when urgent surgical intervention is necessary.</p> <ol style="list-style-type: none"> <li>1) Describe the general management of a case of trauma to face.</li> <li>2) Describe the general management of trauma to neck</li> <li>3) List the soft tissue injuries to face and neck</li> <li>4) List the bone injuries to the face</li> <li>5) List the possible laryngeal framework injuries</li> <li>6) List the types of nasal fractures</li> <li>7) List the basic investigations done in a case of trauma to face and neck</li> <li>8) Describe the line of management of soft tissue injuries to face and neck</li> <li>9) Describe the line of management of bony injuries to face.</li> <li>10) Describe the line of management of laryngeal framework injuries</li> </ol> | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH/ SH/P</del><br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture, group discussion<br/> <b>Suggested Assessment method-</b> Written, Viva voce<br/> <b>Number required to certify</b> 2<br/> <b>Vertical /Horizontal Integration:</b> Dentistry</p> |
| 4.32 | <p>Describe the clinical features, investigations and principles of management of nasopharyngeal Angiofibroma.<br/> Should know differential diagnosis of mass in nasopharynx</p> <ol style="list-style-type: none"> <li>1) Describe the Etiopathogenesis of Nasopharyngeal Angiofibroma (JNA)</li> <li>2) List the possible extensions of JNA</li> <li>3) List the clinical features, investigations, typical diagnostic radiological features &amp; management principles in a case of JNA</li> </ol>  | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH/ SH/P</del><br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture, group discussion<br/> <b>Suggested Assessment method-</b> Written, Viva voce<br/> <b>Number required to certify</b> 2<br/> <b>Vertical /Horizontal Integration</b></p>            |

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|             | <b>4)</b> List the surgical approaches for excision of JNA  |   |
| <b>4.33</b> | <p>Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Acute &amp; Chronic Sinusitis.<br/>Show know osteomeatal complex and principles of FESS.</p> <ol style="list-style-type: none"> <li>1) Classify Rhinosinusitis and differentiate the symptoms of a case of acute sinusitis vs chronic sinusitis.</li> <li>2) Demonstrate &amp; record history in acute &amp; chronic sinusitis.</li> <li>3) List the clinical features in acute sinusitis, investigations &amp; management done in acute sinusitis</li> <li>4) Write a rational prescription for acute sinusitis</li> <li>5) Outline the etiopathogenesis &amp; treatment of Chronic Rhinosinusitis. Describe the various surgical approaches to the sinuses</li> </ol> | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH/ SH/P</del><br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture,group discussion<br/> <b>Suggested Assessment method-</b>Written,Viva voce<br/> <b>Number required to certify</b> 2<br/> <b>Vertical /Horizontal Integration</b></p>                  |
| <b>4.34</b> | <p>Describe the clinical features, investigations and principles of management of Tumors of Maxilla</p> <ol style="list-style-type: none"> <li>1) Should know differential diagnosis of swelling of maxilla<br/>Draw a list of benign and malignant tumours of the maxilla</li> <li>2) Outline the clinical features, relevant investigations &amp; management principles of a case of maxillary tumour</li> <li>3) Describe the classification of malignancy of maxilla</li> <li>4) Outline the management principles in a case of malignancy of maxilla</li> </ol>  | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH/ SH/P</del><br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture,group discussion<br/> <b>Suggested Assessment method-</b>Written,Viva voce<br/> <b>Number required to certify</b> 2<br/> <b>Vertical /Horizontal Integration</b></p>                  |
| <b>4.35</b> | <p>Describe the clinical features, investigations and principles of management of Tumors of Nasopharynx.<br/>Should know differential diagnosis of mass in nasopharynx</p> <ol style="list-style-type: none"> <li>1) List benign and malignant tumours of the Nasopharynx</li> <li>2) Describe the etiopathogenesis of malignant tumours of the Nasopharynx</li> <li>3) Outline the clinical features of a case of tumour of the Nasopharynx</li> <li>4) List the relevant investigations done in a case of tumour of Nasopharynx</li> <li>5) Outline the management principles in a case of malignancy Nasopharynx</li> </ol>  | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K/KH/ SH/P</del><br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture,group discussion<br/> <b>Suggested Assessment method-</b>Written,Viva voce,skill assessment<br/> <b>Number required to certify</b> 2<br/> <b>Vertical /Horizontal Integration</b></p> |

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| <b>4.36</b> | <p>Describe the clinical features, investigations and principles of management of diseases of the Salivary glands. Should know the management of sialolithiasis</p> <ol style="list-style-type: none"> <li>1) Describe the clinical features and management of Viral parotitis (Mumps)</li> <li>2) Write a prescription for a patient with acute suppurative parotitis</li> <li>3) Describe the surgical management of parotid abscess</li> <li>4) List the clinical symptoms and diagnostic criteria for Sjogrens syndrome</li> <li>5) Describe the pathogenesis &amp; management of salivary calculi</li> <li>6) Describe the basic principles of Sialendoscopy</li> <li>7) List the tumours and granulomatous infections of salivary glands</li> <li>8) Describe the anatomic principles of surgery for excision of submandibular and parotid glands</li> </ol> | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> K/KH/ SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture,group discussion<br/> <b>Suggested Assessment method-</b>Written,Viva voce,skill assessment<br/> <b>Number required to certify</b> 2<br/> <b>Vertical /Horizontal Integration:</b> General surgery</p> |
| <b>4.37</b> | <p>Describe the clinical features, investigations and principles of management of Ludwig's angina.<br/>Should know aetiology of Ludwigs angina</p> <ol style="list-style-type: none"> <li>1) Describe the etiopathogenesis, clinical features of Ludwigs angina</li> <li>2) Outline the key investigations 7 management done in Ludwigs angina</li> </ol>  | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> K/KH/ SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture,group discussion<br/> <b>Suggested Assessment method-</b>Written,Viva voce<br/> <b>Number required to certify</b> 2<br/> <b>Vertical /Horizontal Integration</b></p>                                   |
| <b>4.38</b> | <p>Elicit, record and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of type of dysphagia.<br/>Should know differential diagnosis and management of dysphagia in a forty year old female</p> <ol style="list-style-type: none"> <li>1) Describe etiopathogenesis of Swallowing disorders</li> <li>2) List the associated symptoms to be asked for in a patient with Dysphagia</li> <li>3) From a given clinical scenario, to be able to give the most likely cause of dysphagia</li> </ol>   | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> K/KH/ SH/P<br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method-</b> Lecture,group discussion<br/> <b>Suggested Assessment method-</b>Written,Viva voce<br/> <b>Number required to certify</b> 2<br/> <b>Vertical /Horizontal Integration</b></p>                                   |

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|             | <ol style="list-style-type: none"> <li>4) Outline the key investigations done in a case of Dysphagia</li> <li>5) Describe briefly the endoscopic and radiologic evaluation of Dysphagia (FEES and VFSS)</li> <li>6) Draw a chart listing the key differential diagnosis of a patient with dysphagia and its relevant management</li> <li>7) Demonstrate counselling a patient of dysphagia, along with caretakers, regarding prognosis and nutritional support</li> </ol>  |  |
| <b>4.39</b> | <p>Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Acute &amp; Chronic Tonsillitis</p> <p>The student will identify the indications for a tonsillectomy as well as the classic presentation and treatment</p> <ol style="list-style-type: none"> <li>1) List the symptoms of a patient with acute tonsillitis</li> <li>2) List the symptoms of a patient with chronic tonsillitis</li> <li>3) Describe and compare the signs in a patient with acute and chronic tonsillitis</li> <li>4) List the relevant investigations required in a case of acute and chronic tonsillitis</li> <li>5) Describe the correct technique of taking swab from the tonsils</li> <li>6) Outline the principles of management of acute tonsillitis</li> <li>7) Write a rational prescription for a child with acute tonsillitis</li> <li>8) Outline the principles of management of chronic tonsillitis</li> <li>9) Demonstrate counselling a child's parents, regarding scheduling for tonsillectomy</li> </ol> | <p><b>Domain</b>     <b>K/S/A/C</b><br/> <b>Level</b>       <b>K/KH/ SH/P</b><br/> <b>Core</b>         <b>(Y/N)</b><br/> <b>Suggested Teaching Learning method- Lecture,group discussion</b><br/> <b>Suggested Assessment method-Written,Viva voce</b><br/> <b>Number required to certify 2</b><br/> <b>Vertical /Horizontal Integration</b></p> |
| <b>4.40</b> | <p>Observe and describe the indications for and steps involved in a tonsillectomy / adenoidectomy</p> <ol style="list-style-type: none"> <li>1) Enumerate the indications for adenoidectomy and tonsillectomy</li> <li>2) Describe the essential steps in each of the above surgical procedures</li> <li>3) List the chief complications of each of the above surgical procedures</li> <li>4) In a given patient who has been scheduled for any of the above surgeries, the students to demonstrate counselling</li> </ol>   | <p><b>Domain</b>     <b>K/S/A/C</b><br/> <b>Level</b>       <b>K/KH/SH/P</b><br/> <b>Core</b>         <b>(Y/N)</b><br/> <b>Suggested Teaching Learning method-DOAP session</b><br/> <b>Suggested Assessment method- Written,Viva voce</b><br/> <b>Number required to certify 2</b><br/> <b>Vertical /Horizontal Integration</b></p>              |

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|      | <p>about the procedure to the patient and bystanders</p> <p>5) From a recorded video of the above procedures, the students should describe the subsequent step</p>  |   |
| 4.41 | <p>Describe the clinical features, investigations and principles of management of acute and chronic abscesses in relation to pharynx</p> <p>Quinsy, parapharyngeal abscess &amp; retro-pharyngeal abscess</p> <ol style="list-style-type: none"> <li>1) List the acute and chronic abscesses in relation to pharynx</li> <li>2) Describe the important neck spaces in relation to pharynx</li> <li>3) Describe the salient clinical features, relevant investigations and treatment of each</li> <li>4) Should be able to diagnose retropharyngeal abscess,</li> <li>5) Demonstrate counselling the patient with a given abscess</li> <li>6) Describe the basic steps of surgical drainage of such abscesses</li> </ol>   | <p><b>Domain</b> K/S/A/C</p> <p><b>Level</b> K/KH/ SH/P</p> <p><b>Core</b> (Y/N)</p> <p><b>Suggested Teaching Learning method-</b> Lecture, small group discussion, DOAP session</p> <p><b>Suggested Assessment method-</b> Written, Viva voce</p> <p><b>Number required to certify</b> 2</p> <p><b>Vertical /Horizontal Integration</b></p>                  |
| 4.42 | <p>Elicit, record and present a correct history, demonstrate &amp; describe the clinical features, choose the correct investigations and describe the principles of management of hoarseness of voice</p> <p>When presented with a patient with hoarseness, the student will be able to perform a differential diagnosis and discuss a diagnostic workup plan. On laryngoscopic exam, the student will distinguish between normal and pathologic laryngeal anatomy.</p> <p>Should know differential diagnosis and management of hoarseness of voice for more than 6 weeks in a forty year old male</p> <ol style="list-style-type: none"> <li>1) List the causes for hoarseness</li> <li>2) Demonstrate key points in history and clinical features in a simulated setting of various situations causing hoarseness</li> <li>3) Describe the relevant investigations, including stroboscopy, to diagnose the cause of hoarseness</li> <li>4) Describe the principles of management of hoarseness</li> <li>5) Describe the principles of vocal hygiene</li> <li>6) List the indications for surgical treatment in cases of hoarseness</li> <li>7) Demonstrate counselling patient and caretakers, regarding voice care measures</li> </ol> | <p><b>Domain</b> K/S/A/C</p> <p><b>Level</b> K/KH/ SH/P</p> <p><b>Core</b> (Y/N)</p> <p><b>Suggested Teaching Learning method-</b> Lecture, small group discussion, DOAP session</p> <p><b>Suggested Assessment method-</b> Written, Viva voce, skill assesment</p> <p><b>Number required to certify</b> 2</p> <p><b>Vertical /Horizontal Integration</b></p> |
| 4.43 | <p>Describe the clinical features, investigations and principles of</p>   | <p><b>Domain</b> K/S/A/C</p> <p><b>Level</b> K/KH/ SH/P</p>   |

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|             | <p>management of acute and chronic laryngitis</p> <ol style="list-style-type: none"> <li>1) List the causes for Acute and chronic laryngitis</li> <li>2) Describe the clinical features of the same</li> <li>3) Describe the relevant investigations and specific management of various causes of laryngitis</li> </ol>  | <p><b>Core</b> (Y/N)</p> <p><b>Suggested Teaching Learning method-</b> Lecture,small group discussion,DOAP session</p> <p><b>Suggested Assessment method-</b> Written,Viva voce</p> <p><b>Number required to certify</b> 3</p> <p><b>Vertical /Horizontal Integration</b></p>   |
| <b>4.44</b> | <p>Describe the clinical features and management of benign lesions of the vocal cord.Should know differential diagnosis and management of hoarseness of voice, including CO2 LASER</p> <ol style="list-style-type: none"> <li>1) Enumerate benign lesions of the vocal cord.</li> <li>2) List the salient laryngoscopic findings of the same</li> <li>3) Discuss the relevant investigations and specific management of various lesions.</li> </ol>  | <p><b>Domain</b> K/S/A/C</p> <p><b>Level</b> <del>K</del>/KH/ <del>SH</del>/P</p> <p><b>Core</b> (Y/N)</p> <p><b>Suggested Teaching Learning method-</b> Lecture,small group discussion,DOAP session</p> <p><b>Suggested Assessment method-</b> Written,Viva voce</p> <p><b>Number required to certify</b> 3</p> <p><b>Vertical /Horizontal Integration</b></p>       |
| <b>4.45</b> | <p>Describe the clinical features,investigations and principles of management of vocal cord palsy. Should know anatomy of recurrent laryngeal nerve.</p> <ol style="list-style-type: none"> <li>1) Enumerate causes of vocal cord palsy (VCP)</li> <li>2) Describe the salient clinical features of the same</li> <li>3) Discuss the relevant investigations in cases of VCP</li> <li>4) Describe the principles of management of different types of palsy</li> <li>5) List the surgical modalities and treatment of VCP</li> </ol>                          | <p><b>Domain</b> K/S/A/C</p> <p><b>Level</b> <del>K</del>/KH/ <del>SH</del>/P</p> <p><b>Core</b> (X/N)</p> <p><b>Teaching Learning method-</b> Lecture,small group discussion</p> <p><b>Suggested Assessment method-</b> Written,Viva voce,skill assessment</p> <p><b>Number required to certify</b> 3</p> <p><b>Vertical /Horizontal Integration</b></p>             |
| <b>4.46</b> | <p>Should know clinical features, investigations &amp; management of Malignancy of the larynx and hypopharynx.</p> <p>Should know clinical features of pre-cancerous conditions</p> <ol style="list-style-type: none"> <li>1) Enumerate the malignancies of larynx and hypopharynx</li> <li>2) List the salient clinical features of the same</li> <li>3) Describe the relevant investigations and treatment of laryngeal and hypopharyngeal malignancies.</li> <li>4) List the methods of rehabilitation in voice and swallowing after treatment</li> </ol> | <p><b>Domain</b> K/S/A/C</p> <p><b>Level</b> <del>K</del>/KH/ <del>SH</del>/P</p> <p><b>Core</b> (Y/N)</p> <p><b>Suggested Teaching Learning method-</b> Lecture,small group discussion</p> <p><b>Suggested Assessment method-</b> Written,Viva voce , skill assessment</p> <p><b>Number required to certify</b> 3</p> <p><b>Vertical /Horizontal Integration</b></p> |
| <b>4.47</b> | <p>Describe the clinical features,investigations and principles of management of management of Stridor In the evaluation of a</p>  | <p><b>Domain</b> K/S/A/C</p> <p><b>Level</b> <del>K</del>/KH/ <del>SH</del>/P</p> <p><b>Core</b> (Y/N)</p>  |

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|             | <p>pediatric patient with stridor, the student will be able to make a differential diagnosis and a workup plan and treatment options</p> <ol style="list-style-type: none"> <li>1) Enumerate causes of stridor</li> <li>2) List the distinguishing clinical features of the various conditions</li> <li>3) List the steps in emergent management of a case of stridor in the Casualty</li> <li>4) List the indications for emergency tracheostomy in stridor</li> <li>5) Describe the principles of management of stridor</li> <li>6) Demonstrate counselling of the caretakers of patient in Casualty with stridor</li> </ol>   | <p><b>Suggested Teaching Learning method- Lecture,small group discussion,,demonstration</b><br/> <b>Suggested Assessment method- Written,Viva voce , skill assessment</b><br/> <b>Number required to certify 3</b><br/> <b>Vertical /Horizontal Integration: Paediatrics (PE 28.7)</b></p>  |
| <b>4.48</b> | <p>Elicit record and present a correct history, demonstrate and describe the clinical features, investigations and describe the principles of management of Airway Emergencies<br/> Airway obstruction and stridor.How to recognise, assess and refer. ABC of resuscitation</p> <ol style="list-style-type: none"> <li>1) List the airway emergencies</li> <li>2) List the red alert signs of an airway emergency.</li> <li>3) Make a flow chart of relevant history, salient clinical features, investigations and treatment which includes intubation and tracheostomy</li> <li>4) Correctly record relevant history and clinical features, investigation and treatment for a simulated airway emergency.</li> <li>5) Each student should demonstrate resuscitation on a simulator</li> <li>6) Each student should perform intubation on a simulator</li> <li>7) Identify the warning signs to call for help and refer</li> <li>8) From a given instrument tray, all students to correctly identify the instruments used for these emergencies.</li> <li>9) Demonstrate counselling of bystanders, regarding prognosis and management, in an airway emergency</li> </ol> | <p><b>Domain</b> <del>K/S/A/C</del><br/> <b>Level</b> <del>K/KH/ SH/P</del><br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method- Lecture,small group discussion,,demonstration</b><br/> <b>Suggested Assessment method- Written,Viva voce , skill assessment</b><br/> <b>Number required to certify 3</b><br/> <b>Vertical /Horizontal Integration : Anesthesia</b></p> |
| <b>4.49</b> | <p>Elicit,record and present history, demonstrate and describe the clinical features, choose the correct investigations (plain XRay &amp; CT scan) and describe the principles of management of foreign bodies in the air &amp; food passages</p> <ol style="list-style-type: none"> <li>1) Describe the anatomy of the larynx</li> </ol>  | <p><b>Domain</b> <del>K/S/A/C</del><br/> <b>Level</b> <del>K/KH/ SH/P</del><br/> <b>Core</b> (Y/N)<br/> <b>Suggested Teaching Learning method- Lecture,small group discussion,,demonstration</b><br/> <b>Suggested Assessment method- Written,Viva voce , skill assessment</b></p>  |

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|             | <ol style="list-style-type: none"> <li>2) Describe physiology of the protective function of larynx</li> <li>3) Describe the anatomy of the oesophagus</li> <li>4) Describe the physiology of pharyngeal and oesophageal stages of swallowing</li> <li>5) Enumerate the common foreign bodies (f. b.) of the air and food passages</li> <li>6) Describe the evolution of pathology caused by f. b. in the upper and lower air passages</li> <li>7) List the set of symptoms that can feature in a child with aspirated f. b.</li> <li>8) List the investigations to be done in case of suspected f. b. aspiration in a child</li> <li>9) Describe the stepwise management protocol in a case of diagnosed f. b. aspiration in a child</li> <li>10) From the set of given instruments, each student to identify the ones used in the procedures for removal of f. b. from air and food passages</li> <li>11) Describe the main steps of removal of bronchoscopy under general anaesthesia</li> <li>12) In a mannequin, each student to demonstrate the correct use of a bronchoscope</li> <li>13) Describe the evolution of pathology caused by f. b. in the upper and lower food passages</li> <li>14) List the set of symptoms that can feature in a patient with impacted f. b. in the food passage</li> <li>15) List the cardinal signs of impacted f. b. in the cricopharynx</li> <li>16) List the investigations to be done in case of suspected f. b. ingestion</li> <li>17) In a given XRay, each student to correctly identify the suspected f. b. and location</li> <li>18) In a simulated patient, each student to correctly demonstrate the Heimlich manoeuvre</li> <li>19) Describe the main steps of fb removal by oesophagoscopy under general anaesthesia</li> <li>20) In a mannequin, each student to demonstrate the correct use of an oesophagoscope</li> <li>21) List, and describe the pathophysiology, of complications due to untreated f. b. in the air and food passages</li> </ol> | <p><b>Number required to certify 3</b><br/> <b>Vertical /Horizontal Integration : Anesthesia</b></p> |
| <b>4.50</b> | Observe and describe the indications for and steps involved in Tracheostomy  | <p><b>Domain</b>    <del>K/S/A/C</del><br/> <b>Level</b>      <del>K/KH/ SH/P</del></p>              |

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|             | <ul style="list-style-type: none"> <li>• Tracheotomy – indications &amp; complications. Special precautions in a paediatric tracheostomy</li> </ul> <ol style="list-style-type: none"> <li>1) Describe the anatomy of cervical trachea &amp; it's relations</li> <li>2) Classify and list the indications for tracheostomy</li> <li>3) In given clinical scenarios, student to correctly identify the need to do or not do tracheostomy in each case</li> <li>4) Each student to identify instruments need for tracheostomy, in the correct order of use</li> <li>5) List the main steps in emergency and elective tracheostomy</li> <li>6) In a demonstration video of tracheostomy, each student to describe each subsequent step in advance</li> <li>7) Orotracheal intubation vs tracheostomy</li> <li>8) In a simulated situation, each student to demonstrate counselling the attendants of a patient scheduled for tracheostomy</li> </ol> | <p><b>Core (Y/N)</b><br/> <b>Suggested Teaching Learning method- DOAP session</b><br/> <b>Suggested Assessment method- Written, Viva voce</b><br/> <b>Number required to certify 3</b><br/> <b>Vertical /Horizontal Integration</b></p>   |
| <b>4.51</b> | <p>Observe and describe the care of the patient with a tracheostomy. Tracheotomy tube care &amp; when &amp; how to change</p> <ol style="list-style-type: none"> <li>1) List steps in the care of an in-patient with tracheostomy</li> <li>2) List the complications of tracheostomy</li> <li>3) In a given patient on tracheostomy, each student to demonstrate the signs to confirm correct position of tube.</li> <li>4) In a given in-patient on tracheostomy, each student to demonstrate the correct technique of suction clearance</li> <li>5) List all the steps in the home-care of a patient with tracheostomy</li> <li>6) Demonstrate counselling of attendants of a patient being discharged with tracheostomy</li> </ol>   | <p><b>Domain K/S/A/C</b><br/> <b>Level K/KH/ SH/P</b><br/> <b>Core (Y/N)</b><br/> <b>Suggested Teaching Learning method- DOAP session</b><br/> <b>Suggested Assessment method- Written, Viva voce</b><br/> <b>Number required to certify 3</b><br/> <b>Vertical /Horizontal Integration</b></p>   |
| <b>4.52</b> | <p>Describe the Clinical features, Investigations and principles of management of benign &amp; malignant disorders of oesophagus</p> <ol style="list-style-type: none"> <li>1) Describe the anatomy of the oesophagus, including the nerve supply</li> <li>2) Describe the physiology of the oesophagus</li> <li>3) List the symptomatology of benign obstructive lesions in the oesophagus</li> <li>4) List the symptomatology of malignancy in the oesophagus</li> <li>5) For a given diagnosis of oesophageal disease, each student to describe all the clinical features &amp; principles of management, including stepwise protocol</li> </ol>   | <p><b>Domain K/S/A/C</b><br/> <b>Level K/KH/ SH/P</b><br/> <b>Core (Y/N)</b><br/> <b>Suggested Teaching Learning method- Lecture, small group discussion,, demonstration</b><br/> <b>Suggested Assessment method- Written, Viva voce , skill assessment</b><br/> <b>Number required to certify 3</b><br/> <b>Vertical /Horizontal Integration</b></p> |

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|             | 6) List the routine investigations for oesophageal diseases<br>7) In a given set of barium swallow images, each student to correctly diagnose the condition<br>8) Describe the theory and principles of videofluoroscopic study of swallowing (VFSS)<br>9) Write a rational prescription for a patient with gastro-oesophageal reflux disease<br>10) Demonstrate counselling of a patient with regard to anti-reflux lifestyle changes<br>11) Demonstrate counselling of a patient and attendants diagnosed with malignancy of the oesophagus   |   |
| <b>4.53</b> | Describe the clinical features, investigations and principles of management of HIV manifestations of the ENT<br><br>1) Describe the life cycle of HIV<br>2) Describe the course of stages of HIV infection<br>3) List the ENT manifestations of HIV<br>4) List, and describe, the diagnostic tests for HIV<br>5) Classify and list antiretroviral drugs<br>6) Demonstrate counselling of patient and attendants in a case of HIV infection, regarding treatment & precautions<br>7) Demonstrate counselling a peer regarding precautions for prevention of exposure while managing an HIV patient | <b>Domain</b> K/S/A/C<br><b>Level</b> <del>K</del> /KH/ <del>SH</del> /P<br><b>Core</b> (Y/N)<br><b>Suggested Teaching Learning method-</b> Lecture,small group discussion,,demonstration<br><b>Suggested Assessment method-</b> Written,Viva voce , skill assessment<br><b>Number required to certify</b> 3<br><b>Vertical /Horizontal Integration:</b> General Medicine |

## INTEGRATION

### Anatomy

| No                 | COMPETENCY<br>The student should be able to:  |  |
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| <b>AN<br/>36.1</b> | Describe the (1) morphology, relations, blood supply and applied anatomy of palatine tonsil and (2) composition of soft palate<br><br>1) Describe the gross and microscopic structure of palatine tonsils<br><br>2) Draw neat labelled diagram of the bed of palatine tonsil<br><br>3) List the arterial supply, venous and lymphatic | <b>Domain</b> K/S/A/C<br><b>Level</b> <del>K</del> /KH/ <del>SH</del> /P<br><b>Core</b> (Y/N)<br><b>Suggested Teaching Learning method-</b> Lecture<br><b>Suggested Assessment method-</b> Written<br><b>Number required to certify</b> 1<br><b>Vertical /Horizontal Integration :</b> ENT |

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|                | <p>drainage of palatine tonsils</p> <p><b>4)</b> List five pathologies that can affect structures in the tonsil bed, leading to medial push of the tonsil</p>   |  |
| <b>AN 36.2</b> | <p>1) Describe the components and functions of Waldeyer's lymphatic ring List the components of Waldeyer's ring</p> <p>2) Describe the functions of Waldeyer's ring</p>   | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K</del>/KH/ SH/P<br/> <b>Core</b> (Y/<del>N</del>)<br/> <b>Suggested Teaching Learning method-Lecture</b><br/> <b>Suggested Assessment method-Written</b><br/> <b>Number required to certify 1</b><br/> <b>Vertical /Horizontal Integration :ENT</b></p> |
| <b>AN 36.3</b> | <p>Describe the boundaries and clinical significance of pyriform fossa</p> <p>1) Draw neat labelled diagram showing boundaries of the left pyriform fossa (PF)</p> <p>2) Draw neat labelled diagram of indirect laryngoscopic view</p> <p>3) List the structures in immediate relation to PF</p> <p>4) In a given diagram of the hypopharynx, each student to mark the areas where a growth in the PF can spread</p> <p>5) Describe the lymphatic drainage of the PF</p> <p>6) Describe the IL findings in a case of f. b. cricopharynx</p> | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K</del>/KH/ SH/P<br/> <b>Core</b> (Y/<del>N</del>)<br/> <b>Suggested Teaching Learning method-Lecture</b><br/> <b>Suggested Assessment method-Written</b><br/> <b>Number required to certify 1</b><br/> <b>Vertical /Horizontal Integration :ENT</b></p> |
| <b>AN 36.4</b> | <p>Describe the anatomical basis of tonsillitis, tonsillectomy, adenoids and peri-tonsillar abscess</p> <p>1) Describe the crypts of palatine tonsils</p> <p>2) Describe the nerve supply of tonsil</p> <p>3) Describe the spaces and fasciae in relation to the palatine tonsil</p> <p>4) Describe the surgical steps of tonsillectomy,</p>  | <p><b>Domain</b> K/S/A/C<br/> <b>Level</b> <del>K</del>/KH/ SH/P<br/> <b>Core</b> (Y/<del>N</del>)<br/> <b>Suggested Teaching Learning method-Lecture</b><br/> <b>Suggested Assessment method-Written</b><br/> <b>Number required to certify 1</b><br/> <b>Vertical /Horizontal Integration :ENT</b></p> |

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|                | <p>based on anatomical planes</p> <p>5) Describe the anatomy of the nasopharyngeal tonsil (adenoid)</p> <p>6) List the structures in close relation the adenoid</p>  |   |
| <b>AN 36.5</b> | <p>Describe the clinical significance of Killian's dehiscence and pathophysiology of Zenker's diverticulum.</p> <ol style="list-style-type: none"> <li>1) Draw a labelled diagram of the area of Killian's dehiscence</li> <li>2) With the help of a diagram, explain the anatomical basis and pathogenesis of pharyngeal pouch</li> <li>3) List the symptoms and signs of pharyngeal pouch</li> <li>4) Describe the anatomic basis of surgical treatment of Pharyngeal pouch</li> </ol>   | <p><b>Domain</b> K/S/A/C</p> <p><b>Level</b> <del>K</del>/KH/ SH/P</p> <p><b>Core</b> (Y/N)</p> <p><b>Suggested Teaching Learning method-Lecture</b></p> <p><b>Suggested Assessment method-Written</b></p> <p><b>Number required to certify 1</b></p> <p><b>Vertical /Horizontal Integration :ENT</b></p>   |
| AN37.1         | <p>Describe nasal septum, lateral wall of nose, their blood supply and nerve supply.<br/>Special emphasis on Kiesselbach's &amp; Woodruff's plexus</p> <ol style="list-style-type: none"> <li>1) Draw a neat labelled diagram showing parts of the nasal septum and its blood supply</li> <li>2) Draw a neat labelled diagram to explain the anatomy of lateral wall of nose and its nerve supply</li> <li>3) Describe the characteristics of venous arrangement of mucosa of the nose and explain the significance of 'dangerous area' of the face</li> </ol> | <p><b>Domain</b> K/S/A/C</p> <p><b>Level</b> <del>K</del>/KH/ SH/P</p> <p><b>Core</b> (Y/N)</p> <p><b>Suggested Teaching Learning method-Lecture,Practical,group discussion,DOAP session</b></p> <p><b>Suggested Assessment method - Written,Viva voce , skill assessment</b></p> <p><b>Number required to certify 3</b></p> <p><b>Vertical /Horizontal Integration:ENT</b></p> |
| AN37.2         | <p>Describe location and functional anatomy of paranasal sinuses</p> <ol style="list-style-type: none"> <li>1) Name all paranasal sinuses (PNS) and describe their development</li> <li>2) Draw and describe the anatomical relations of each paranasal sinus</li> <li>3) Describe the clinical significance of the ostiomeatal complex</li> <li>4) Draw a diagram of cavernous sinus with its</li> </ol>  | <p><b>Domain</b> K/S/A/C</p> <p><b>Level</b> <del>K</del>/KH/ SH/P</p> <p><b>Core</b> (Y/N)</p> <p><b>Suggested Teaching Learning method-Lecture</b></p> <p><b>Suggested Assessment method-Written</b></p> <p><b>Number required to certify 1</b></p> <p><b>Vertical /Horizontal Integration :ENT</b></p>   |

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|        | contents and anatomical relation to the sphenoid sinus   |   |
| AN37.3 | Describe anatomical basis of sinusitis & maxillary sinus tumours<br><ol style="list-style-type: none"> <li>1) Describe the mucociliary clearance pattern of each PNS</li> <li>2) Describe the anatomical boundaries of maxillary sinus and local spread of tumors</li> </ol>   | <b>Domain</b> K/S/A/C<br><b>Level</b> <del>K</del> /KH/ SH/P<br><b>Core</b> ( <del>Y</del> /N)<br><b>Suggested Teaching Learning method-Lecture</b><br><b>Suggested Assessment method-Written</b><br><b>Number required to certify 1</b><br><b>Vertical /Horizontal Integration :ENT</b>  |
| AN38.1 | Describe the morphology, identify structure of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of the larynx.<br>Movements of larynx and laryngeal paralysis.<br><ol style="list-style-type: none"> <li>1) Name the intrinsic and extrinsic muscles of the larynx and their individual actions</li> <li>2) Describe divisions and compartments of the larynx.</li> <li>3) Describe the blood supply,sensory and motor innervation of the larynx</li> <li>4) Describe the signs and symptoms of recurrent laryngeal nerve weakness</li> </ol> | <b>Domain</b> K/S/A/C<br><b>Level</b> <del>K</del> /KH/ SH/P<br><b>Core</b> (Y/N)<br><b>Suggested Teaching Learning method-Lecture,Practical,group discussion,DOAP session</b><br><b>Suggested Assessment method - Written,Viva voce , skill assessment</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration:ENT</b> |
| AN38.2 | Describe the anatomical aspects of laryngitis<br><ol style="list-style-type: none"> <li>1) List the layers of the vocal cord</li> <li>2) Describe Reinke's space and its clinical importance</li> <li>3) List four conditions with pathological involvement of Reinke's space</li> </ol>   | <b>Domain</b> K/S/A/C<br><b>Level</b> <del>K</del> /KH/ SH/P<br><b>Core</b> ( <del>Y</del> /N)<br><b>Suggested Teaching Learning method-Lecture</b><br><b>Suggested Assessment method-Written</b><br><b>Number required to certify 1</b><br><b>Vertical /Horizontal Integration :ENT</b>  |
| AN38.3 | Describe anatomical basis of recurrent laryngeal nerve injury<br><ol style="list-style-type: none"> <li>1) Describe the course of left and right recurrent laryngeal nerves with the help of diagrams</li> <li>2) Enumerate causes of right and left vocal cord palsy, and describe the anatomical basis of the injury</li> </ol>  | <b>Domain</b> K/S/A/C<br><b>Level</b> <del>K</del> /KH/ SH/P<br><b>Core</b> ( <del>Y</del> /N)<br><b>Suggested Teaching Learning method-Lecture</b><br><b>Suggested Assessment method-Written</b><br><b>Number required to certify 1</b><br><b>Vertical /Horizontal Integration :ENT</b>  |
| AN39.2 | Explain the anatomical basis of hypoglossal nerve palsy<br><ol style="list-style-type: none"> <li>1) Draw and describe the course &amp; relations of</li> </ol>  | <b>Domain</b> K/S/A/C<br><b>Level</b> <del>K</del> /KH/ SH/P  |

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|        | <p>hypoglossal nerve</p> <p>2) Enumerate causes of hypoglossal nerve palsy, and describe the anatomical basis of the injury</p>   | <p><b>Core</b>        (<del>Y</del>/N)</p> <p><b>Suggested Teaching Learning method-Lecture</b></p> <p><b>Suggested Assessment method-Written</b></p> <p><b>Number required to certify 1</b></p> <p><b>Vertical /Horizontal Integration :ENT</b></p>   |
| AN40.1 | <p>Describe &amp; identify the parts, blood supply and nerve supply of external ear.</p> <p>Applied anatomy of external auditory canal</p> <p>Draw a neat,labelled diagram and identify the parts of the external ear.</p> <p>1) Describe embryology of the external ear with the help of diagrams, and list five congenital anomalies of the external ear</p> <p>2) Describe blood supply of the external ear</p> <p>3) Describe sensory innervation of the external ear and its clinical importance</p>   | <p><b>Domain</b>        K/S/A/C</p> <p><b>Level</b>         <del>K</del>/KH/ SH/P</p> <p><b>Core</b>            (Y/<del>N</del>)</p> <p><b>Suggested Teaching Learning method-Lecture,Practical,group discussion,DOAP session</b></p> <p><b>Suggested Assessment method - Written,Viva voce , skill assessment</b></p> <p><b>Number required to certify 3</b></p> <p><b>Vertical /Horizontal Integration:ENT</b></p> |
| AN40.2 | <p>Describe &amp; demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube</p> <p>Medial wall of middle ear &amp; Eustachian tube functions</p> <p>1) Describe middle ear cleft and its functional significance</p> <p>2) Draw and label the important structures/relations in the lateral,medial,anterior and posterior walls of the middle ear (tympanic cavity)</p> <p>3) List the contents of the middle ear</p> <p>4) Describe the clinical anatomy of the Eustachian tube, and the most common anatomic causes of its block</p> | <p><b>Domain</b>        K/S/A/C</p> <p><b>Level</b>         <del>K</del>/KH/ SH/P</p> <p><b>Core</b>            (Y/<del>N</del>)</p> <p><b>Suggested Teaching Learning method-Lecture,Practical,group discussion,DOAP session</b></p> <p><b>Suggested Assessment method - Written,Viva voce , skill assessment</b></p> <p><b>Number required to certify 3</b></p> <p><b>Vertical /Horizontal Integration:ENT</b></p> |
| AN40.3 | <p>Describe the features of internal ear and auditory pathway</p> <p>1) List the various parts of the inner ear</p> <p>2) Draw a neat,labelled diagram of Organ of Corti</p> <p>3) Draw a neat labelled diagram of the vestibular</p>   | <p><b>Domain</b>        K/S/A/C</p> <p><b>Level</b>         <del>K</del>/KH/ SH/P</p> <p><b>Core</b>            (<del>Y</del>/N)</p> <p><b>Suggested Teaching Learning method-Lecture</b></p> <p><b>Suggested Assessment method-Written</b></p> <p><b>Number required to certify 1</b></p>   |

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|        | apparatus<br><b>4)</b> Describe the sensory end organs in the cochlea and vestibule  | <b>Vertical /Horizontal Integration :ENT</b>   |
| AN40.4 | Explain anatomical basis of otitis externa and otitis media<br><br>1) Describe the anatomy of external auditory canal<br>2) Describe the anatomy of Eustachian tube<br>3) Describe the spread of infection in malignant otitis externa                                       | <b>Domain</b> <b>K/S/A/C</b><br><b>Level</b> <b>K/KH/ SH/P</b><br><b>Core</b> ( <del>Y</del> /N)<br><b>Suggested Teaching Learning method-Lecture</b><br><b>Suggested Assessment method-Written</b><br><b>Number required to certify 1</b><br><b>Vertical /Horizontal Integration :ENT</b> |
| AN40.5 | Explain anatomical basis of myringotomy<br><br>1) List the layers of tympanic membrane (TM)<br>2) Describe epithelial migration over the TM<br>3) Draw labelled diagram showing quadrants of the TM<br>4) Describe the anatomical basis for location of myringotomy incision | <b>Domain</b> <b>K/S/A/C</b><br><b>Level</b> <b>K/KH/ SH/P</b><br><b>Core</b> ( <del>Y</del> /N)<br><b>Suggested Teaching Learning method-Lecture</b><br><b>Suggested Assessment method-Written</b><br><b>Number required to certify 1</b><br><b>Vertical /Horizontal Integration :ENT</b> |

### Physiology

| No      | COMPETENCY<br>The student should be able to:   |  |
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| PY10.13 | Describe and discuss perception of smell and taste sensation<br><br>1) Describe the physiology of Olfaction<br>2) Describe the physiology of Gustation<br>3) Enumerate the substances used to test smell and taste sensations<br>4) List the conditions which cause altered smell and taste sensations | <b>Domain</b> <b>K/S/A/C</b><br><b>Level</b> <b>K/KH/ SH/P</b><br><b>Core</b> ( <del>Y</del> /N)<br><b>Suggested Teaching Learning method-Lecture,group discussion</b><br><b>Suggested Assessment method - Written,Viva voce</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration:ENT</b> |

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| PY10.15 | Describe and discuss functional anatomy of ear and auditory pathways & physiology of hearing:<br><ol style="list-style-type: none"> <li>1) Draw a labelled diagram showing the path of sound waves from outside source to the auditory cortex</li> <li>2) Describe the role of external ear in hearing</li> <li>3) Describe the middle ear transformer mechanisms</li> <li>4) Describe transduction in the cochlea</li> <li>5) Describe the mode of neural conduction of sound</li> </ol>  | <b>Domain</b> K/S/A/C<br><b>Level</b> K/KH/SH/P<br><b>Core</b> (Y/N)<br><b>Suggested Teaching Learning method-</b><br><b>Lecture,group discussion</b><br><b>Suggested Assessment method - Written,Viva voce</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration:ENT</b>  |
| PY10.16 | Describe and discuss pathophysiology of deafness. Describe hearing Tests ( Tuning fork tests - Rinne,Weber,ABC)<br><ol style="list-style-type: none"> <li>1) Describe the etio-pathophysiology of conductive hearing loss</li> <li>2) Describe the etio-pathophysiology of sensori-neural hearing loss</li> <li>3) Describe subjective and objective methods of hearing assessment</li> <li>4) List the objective tests of hearing assessment in infants and children</li> </ol>           | <b>Domain</b> K/S/A/C<br><b>Level</b> K/KH/SH/P<br><b>Core</b> (Y/N)<br><b>Suggested Teaching Learning method-</b><br><b>Lecture,group discussion</b><br><b>Suggested Assessment method - Written,Viva voce</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration:ENT</b>  |
| PY10.20 | Demonstrate (i) hearing (ii) testing for smell and (iii) taste sensation in volunteer/ simulated environment<br><ol style="list-style-type: none"> <li>1) Demonstrate simple tests of hearing in a fellow student</li> <li>2) Demonstrate tuning fork tests to test hearing, in a fellow student</li> <li>3) Demonstrate sense of smell using substances provided, in a fellow student</li> <li>4) Demonstrate the sense of taste with substances provided, in a fellow student</li> </ol> | <b>Domain</b> K/S/A/C<br><b>Level</b> K/KH/SH/P<br><b>Core</b> (Y/N)<br><b>Suggested Teaching Learning method- DOAP session</b><br><b>Suggested Assessment method- Viva voce , skill assessment</b><br><b>Number required to certify 1 each x 3</b><br><b>Vertical /Horizontal Integration-ENT,Eye</b> |

### Community medicine

| No | COMPETENCY<br>The student should be able to:                               |                       |
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| CM | Describe the health hazards of air, water, noise, radiation and pollution. | <b>Domain</b> K/S/A/C |

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| 3.1 | <p>Prevention of noise pollution</p> <ol style="list-style-type: none"> <li>1) Describe common air and water pollutants affecting ENT</li> <li>2) List the common sources of noise pollution in India</li> <li>3) Describe the pathophysiology of noise trauma to the ear</li> <li>4) Describe the hazards of overuse of mobile (cellphones)</li> </ol> | <p>Level <del>K</del>/KH/ <del>SH</del>/P<br/> Core (Y/N)<br/> Suggested Teaching Learning method-Lecture,group discussion<br/> Suggested Assessment method - Written,Viva voce<br/> Number required to certify 3<br/> Vertical /Horizontal Integration:ENT,General Medicine</p> |
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### Dentistry

| No    | COMPETENCY<br>The student should be able to:  |   |
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| DE4.1 | <p>Discuss the prevalence of oral cancer and enumerate the common types of cancer that can affect tissues of the oral cavity.Precancerous lesions of oral cavity.</p> <ol style="list-style-type: none"> <li>1) Enumerate the types of cancer of the oral cavity, and the prevalence of each</li> <li>2) List the common predisposing factors for oral cancer</li> <li>3) List the premalignant lesions of oral cavity, and the types of Leukoplakia</li> </ol> | <p>Domain K/S/A/C<br/> Level K/KH/ <del>SH</del>/P<br/> Core (Y/N)<br/> Suggested Teaching Learning method-Lecture<br/> Suggested Assessment method -Viva voce<br/> Number required to certify 2<br/> Vertical /Horizontal Integration:Pathology,ENT</p>                            |
| DE4.2 | <p>Discuss the role of etiological factors in the formation of precancerous /cancerous lesions</p> <ol style="list-style-type: none"> <li>1) List the etiological factors of oral precancerous lesions</li> <li>2) Discuss the role of dental hygiene in the prevention or development of cancer</li> </ol>   | <p>Domain K/S/A/C<br/> Level K/KH/ <del>SH</del>/P<br/> Core (Y/N)<br/> Suggested Teaching Learning method-Lecture,group discussion<br/> Suggested Assessment method - Written,Viva voce<br/> Number required to certify 3<br/> Vertical /Horizontal Integration: Pathology,ENT</p> |
| DE4.3 | <p>Identify potential pre-cancerous /cancerous lesions</p> <ol style="list-style-type: none"> <li>1) From a set of images, each student to correctly identify the oral precancerous or cancerous lesions in not more than two attempts</li> <li>2) In a given patient, each student to correctly identify the oral precancerous or cancerous lesion</li> </ol>  | <p>Domain K/S/A/C<br/> Level K/KH/ <del>SH</del>/P<br/> Core (Y/N)<br/> Suggested Teaching Learning method-<br/> Observation,bedside clinics<br/> Suggested Assessment method-Skill assessment<br/> Number required to certify-2</p>  |

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|              |  | <b>Vertical /Horizontal Integration-Pathology,ENT</b>  |
| <b>DE4.4</b> | <p>Counsel patients to risks of oral cancer with respect to tobacco smoking, alcohol and other causative factors</p> <p>1)Document and demonstrate the counselling of a patient with chronic tobacco usage as a pertinent risk for oral cancer</p> <p>2)Document and demonstrate the counselling of a patient with chronic alcohol addiction as a pertinent risk for oral cancer</p> <p>3)Document and demonstrate the counselling of a patient to risk factors for oral cancer like genetic predisposition, nutritional deficiencies, sharp teeth, premalignant lesions</p> | <p><b>Domain</b> <del>K</del>/S/A/C</p> <p><b>Level</b> <del>K</del>/KH/ SH/P</p> <p><b>Core</b> (Y/<del>N</del>)</p> <p><b>Suggested Teaching Learning method-DOAP session</b></p> <p><b>Suggested Assessment method-record in log book</b></p> <p><b>Number required to certify-2</b></p> <p><b>Vertical /Horizontal Integration-Pathology,ENT</b></p> |

#### General medicine

| <b>No</b>      | <b>COMPETENCY</b><br><b>The student should be able to:</b>   |   |
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| <b>IM24.17</b> | <ol style="list-style-type: none"> <li>1) Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of hearing loss in the elderly (presbycusis)<br/>Describe the aetiopathogenesis of hearing loss in the elderly (presbycusis)</li> <li>2) Demonstrate history taking from an elderly patient and his/her caretakers, regarding hearing loss and handicaps due to it</li> <li>3) Describe the principles of management of hearing loss in the elderly</li> <li>4) List and classify the types of hearing aids</li> <li>5) Describe the rehabilitation of hearing loss in the elderly</li> <li>6) Demonstrate counselling of elderly patient and caretakers regarding use of HAs</li> </ol> | <p><b>Domain</b> <del>K</del>/S/A/C</p> <p><b>Level</b> <del>K</del>/KH/ SH/P</p> <p><b>Core</b> (Y/<del>N</del>)</p> <p><b>Suggested Teaching Learning method-Lecture,Small group discussion</b></p> <p><b>Suggested Assessment method-written,Viva voce</b></p> <p><b>Number required to certify 3</b></p> <p><b>Vertical /Horizontal Integration</b></p> |

#### Paediatrics

| <b>No</b> | <b>COMPETENCY</b><br><b>The student should be able to:</b>  |   |
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| PE14.2    | <p>Discuss the risk factors, clinical features, Diagnosis and management of Kerosene ingestion</p> <ol style="list-style-type: none"> <li>1) Describe the risk factors for accidental kerosene ingestion</li> </ol> | <p><b>Domain</b> <del>K</del>/S/A/C</p> <p><b>Level</b> <del>K</del>/KH/ SH/P</p> <p><b>Core</b> (Y/<del>N</del>)</p> |

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|        | <ol style="list-style-type: none"> <li>2) Describe the clinical features, related to upper aero-digestive tract, in children with kerosene ingestion</li> <li>3) Demonstrate history taking from the parents of children with kerosene ingestion</li> <li>4) Describe the investigations &amp; principles of treatment needed in a case of kerosene ingestion</li> </ol>   | <b>Suggested Teaching Learning method-<br/>Lecture,Small group discussion</b><br><b>Suggested Assessment method-written,Viva voce</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration-ENT</b>  |
| PE28.1 | <p>Discuss the etio-pathogenesis, clinical features and management of Naso pharyngitis</p> <ol style="list-style-type: none"> <li>1) List the different types of nasopharyngitis</li> <li>2) Describe the aetiopathogenesis of nasopharyngitis in children</li> <li>3) Describe the management of nasopharyngitis</li> </ol>   | <b>Domain K/S/A/C</b><br><b>Level K/KH/ SH/P</b><br><b>Core (Y/N)</b><br><b>Suggested Teaching Learning method-<br/>Lecture,Small group discussion</b><br><b>Suggested Assessment method-written,Viva voce</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration-ENT</b> |
| PE28.2 | <p>Discuss the etio-pathogenesis of Pharyngo Tonsillitis</p> <ol style="list-style-type: none"> <li>1) Enumerate the divisions of the pharynx</li> <li>2) Describe the etiological factors of acute pharyngitis and tonsillitis</li> <li>3) List the common organisms causing pharyngitis and tonsillitis</li> <li>4) Describe the etiopathogenesis in diphtheric pharyngitis</li> </ol>   | <b>Domain K/S/A/C</b><br><b>Level K/KH/ SH/P</b><br><b>Core (Y/N)</b><br><b>Suggested Teaching Learning method-<br/>Lecture,Small group discussion</b><br><b>Suggested Assessment method-written,Viva voce</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration-ENT</b> |
| PE28.3 | <p>Discuss the clinical features and management of Pharyngo Tonsillitis</p> <ol style="list-style-type: none"> <li>1) List the typical symptoms and signs in a child with tonsillitis</li> <li>2) Demonstrate history-taking from parents of a child with sore throat</li> <li>3) Describe the principles of treatment of a child with tonsillitis</li> <li>4) Write a rational prescription for a child with acute tonsillitis</li> <li>5) Demonstrate counselling the parents of a child with recurrent pharyngotonsillitis</li> <li>6) Describe the clinical features and management of diphtheric pharyngitis</li> </ol> | <b>Domain K/S/A/C</b><br><b>Level K/KH/ SH/P</b><br><b>Core (Y/N)</b><br><b>Suggested Teaching Learning method-<br/>Lecture,Small group discussion</b><br><b>Suggested Assessment method-written,Viva voce</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration-ENT</b> |
| PE28.4 | <p>Discuss the etio-pathogenesis, stages, clinical features and management of Acute Otitis Media (AOM)</p> <ol style="list-style-type: none"> <li>1) Describe the anatomy of the eustachian tube in a child</li> <li>2) Describe the etiopathogenesis of AOM</li> <li>3) Enumerate the causative organisms of AOM</li> </ol>   | <b>Domain K/S/A/C</b><br><b>Level K/KH/ SH/P</b><br><b>Core (Y/N)</b><br><b>Suggested Teaching Learning method-<br/>Lecture,Small group discussion</b><br><b>Suggested Assessment method-written,Viva voce</b>   |

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|        | <ol style="list-style-type: none"> <li>4) Describe the various stages of AOM</li> <li>5) List the symptoms and signs of AOM</li> <li>6) Demonstrate history taking from parents of a child with earache</li> <li>7) Describe the principles of management of AOM</li> <li>8) List the indications for myringotomy in a case of AOM</li> <li>9) List the complications of AOM</li> </ol>   | <b>voce</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration-ENT</b>  |
| PE28.5 | <p>Discuss the etio-pathogenesis, clinical features and management of Epiglottitis</p> <ol style="list-style-type: none"> <li>1) Define acute epiglottitis</li> <li>2) Describe the etiopathogenesis and common organisms of acute epiglottitis</li> <li>3) Enumerate the clinical features of acute epiglottitis</li> <li>4) List the investigations for diagnosis of acute epiglottitis</li> <li>5) Enumerate 5 differential diagnosis for pyrexial stridor in children</li> <li>6) Describe the principles of treatment of acute epiglottitis</li> <li>7) Enumerate the complications of acute epiglottitis</li> </ol> | <b>Domain K/S/A/C</b><br><b>Level K/KH/ SH/P</b><br><b>Core (Y/N)</b><br><b>Suggested Teaching Learning method- Lecture,Small group discussion</b><br><b>Suggested Assessment method-written,Viva voce</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration-ENT</b> |
| PE28.6 | <p>Discuss the etio-pathogenesis, clinical features and management of Acute laryngo- tracheo-bronchitis</p> <ol style="list-style-type: none"> <li>1) Define acute laryngotracheobronchitis (LTB)</li> <li>2) Describe the etiopathogenesis of LTB</li> <li>3) List the typical symptoms of a child with acute LTB</li> <li>4) List the investigations for diagnosis of acute LTB</li> <li>5) Describe the treatment of acute LTB</li> <li>6) Demonstrate counselling of parents of a child with fever and breathing difficulty, regarding diagnosis and treatment</li> </ol>   | <b>Domain K/S/A/C</b><br><b>Level K/KH/ SH/P</b><br><b>Core (Y/N)</b><br><b>Suggested Teaching Learning method- Lecture,Small group discussion</b><br><b>Suggested Assessment method-written,Viva voce</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration-ENT</b> |
| PE28.7 | <p>Discuss the etiology, clinical features and management of Stridor in children</p> <ol style="list-style-type: none"> <li>1) Define stridor</li> <li>2) Describe the different types of stridor</li> <li>3) List the causes of congenital stridor in children</li> <li>4) List the causes of acquired stridor in children</li> <li>5) Describe the clinical features of a child in Stridor</li> <li>6) Describe the principles of evaluation of a child with stridor</li> <li>7) Describe the treatment of stridor in a child</li> </ol>  | <b>Domain K/S/A/C</b><br><b>Level K/KH/ SH/P</b><br><b>Core (Y/N)</b><br><b>Suggested Teaching Learning method- Lecture,Small group discussion</b><br><b>Suggested Assessment method-written,Viva voce</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration-ENT</b> |

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|         | <b>8)</b> Demonstrate counselling of parents of a child with stridor, regarding diagnosis and treatment  |  |
| PE28.8  | <p>Discuss the types, clinical presentation, and management of foreign body aspiration in infants and children</p> <ol style="list-style-type: none"> <li>1) Enumerate the different types of foreign body aspirated in the airway</li> <li>2) Describe the etiopathogenesis of foreign body aspiration in trachea and bronchi depending on the site of impaction</li> <li>3) Describe the clinical features of foreign body aspiration in airway</li> <li>4) List the investigations required in a case of foreign body in the airway</li> <li>5) Describe the treatment of foreign body aspiration in the airway</li> <li>6) Enumerate the complications FB aspiration in airway</li> <li>7) Describe the different types of foreign body ingested in the upper digestive tract</li> <li>8) Describe the anatomy the esophagus with its sites of constriction</li> <li>9) Describe the clinical features of FB ingestion in the upper digestive tract</li> <li>10) Enumerate the investigations required in a case of FB ingestion in upper digestive tract</li> <li>11) Describe the treatment of a child with FB ingestion in upper digestive tract</li> </ol> | <p><b>Domain</b>     <b>K/S/A/C</b><br/> <b>Level</b>       <b>K/KH/ SH/P</b><br/> <b>Core</b>         <b>(Y/N)</b><br/> <b>Suggested Teaching Learning method-</b><br/> <b>Lecture,Small group discussion</b><br/> <b>Suggested Assessment method-written,Viva voce</b><br/> <b>Number required to certify 3</b><br/> <b>Vertical /Horizontal Integration-ENT</b></p> |
| PE28.9  | <p>Elicit, record and present age appropriate history of a child with upper respiratory problem including Stridor</p> <ol style="list-style-type: none"> <li>1) List the causes of stridor in children according to the age at which they first present with stridor</li> <li>2) List the history to be taken from the parents of a child with stridor</li> <li>3) Demonstrate the taking and documenting of a history of stridor in a simulated case of a child with stridor.</li> </ol>  | <p><b>Domain</b>     <b>K/S/A/C</b><br/> <b>Level</b>       <b>K/KH/ SH/P</b><br/> <b>Core</b>         <b>(Y/N)</b><br/> <b>Suggested Teaching Learning method-Bedside clinics,skill lab</b><br/> <b>Suggested Assessment method-Skill assessment</b><br/> <b>Number required to certify 2</b><br/> <b>Vertical /Horizontal Integration:ENT</b></p>                    |
| PE28.10 | <p>Perform otoscopic examination of the ear</p> <ol style="list-style-type: none"> <li>1) Describe the differences in otoscopic examination in a child, from that in an adult</li> <li>2) In a mannequin, demonstrate a proper otoscopic examination</li> <li>3) Demonstrate in a child a proper otoscopic examination</li> <li>4) Describe correctly the findings of otoscopic examination in children</li> </ol>   | <p><b>Domain</b>     <b>K/S/A/C</b><br/> <b>Level</b>       <b>K/KH/ SH/P</b><br/> <b>Core</b>         <b>(Y/N)</b><br/> <b>Suggested Teaching Learning method-DOAP session</b><br/> <b>Suggested Assessment method-Skill assessment</b><br/> <b>Number required to certify 2</b><br/> <b>Vertical /Horizontal Integration:ENT</b></p>                                 |
| PE28.11 | <p>Perform throat examination using tongue depressor</p> <ol style="list-style-type: none"> <li>1) Demonstrate in a mannequin how to do a proper throat examination using tongue depressor</li> </ol>  | <p><b>Domain</b>     <b>K/S/A/C</b><br/> <b>Level</b>       <b>K/KH/ SH/P</b><br/> <b>Core</b>         <b>(Y/N)</b></p>  |

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|         | <ol style="list-style-type: none"> <li>2) Demonstrate in a child, how to do a proper throat examination using a tongue depressor</li> <li>3) Describe correctly the findings of oropharynx examination, using tongue depressor, in children</li> </ol>   | <b>Suggested Teaching Learning method-DOAP session</b><br><b>Suggested Assessment method-Skill assessment</b><br><b>Number required to certify 2</b><br><b>Vertical /Horizontal Integration:ENT</b>  |
| PE28.12 | Perform examination of the nose <ol style="list-style-type: none"> <li>1) Demonstrate in a mannequin how to do a proper nose examination.</li> <li>2) Demonstrate in a child, how to do a proper nose examination</li> <li>3) Describe correctly the findings of nose examination, in at least two children</li> </ol>   | <b>Domain K/S/A/C</b><br><b>Level K/KH/SH/P</b><br><b>Core (Y/N)</b><br><b>Suggested Teaching Learning method-DOAP session</b><br><b>Suggested Assessment method-Skill assessment</b><br><b>Number required to certify 2</b><br><b>Vertical /Horizontal Integration:ENT</b>                        |
| PE28.17 | Interpret X-ray of the paranasal sinuses and mastoid; and /or use written report in case of management. Interpret CXR in foreign body aspiration and lower respiratory tract infection, understand the significance of thymic shadow in pediatric chest X-rays <ol style="list-style-type: none"> <li>1) List the different views of Chest Xray,Xray PNS and Xray Mastoids</li> <li>2) Demonstrate correct reading of normal chest XRay of at least 5 children</li> <li>3) Read XRay PNS and mark the following structures: Orbit,nasalseptum,frontal sinus and maxillary sinus</li> <li>4) Read XRay mastoids and mark the following structures: EAC,TMJ,duralplate,sinus plate and comment on the pneumatisation</li> <li>5) In a Chest XRay of a child with pneumonia and suspected foreign body aspiration document the findings which would lead one to suspect a foreign body in the airway</li> <li>6) Identify the thymic shadow in chest XRays of newborns</li> </ol> | <b>Domain K/S/A/C</b><br><b>Level K/KH/SH/P</b><br><b>Core (Y/N)</b><br><b>Suggested Teaching Learning method-Bedside clinics,skill lab</b><br><b>Suggested Assessment method-Skill assessment</b><br><b>Number required to certify 2</b><br><b>Vertical /Horizontal Integration:ENT,Radiology</b> |
| PE31.1  | Describe the etio-pathogenesis, management and prevention of Allergic Rhinitis in Children <ol style="list-style-type: none"> <li>1) Describe the etiopathogenesis of allergy in children</li> <li>2) Describe the principles of management in these children</li> <li>3) Write a rational prescription for allergic rhinitis with nasal obstruction in a 10 year old child</li> <li>4) List the various methods of prevention of allergic rhinitis in children</li> </ol>   | <b>Domain K/S/A/C</b><br><b>Level K/KH/SH/P</b><br><b>Core (Y/N)</b><br><b>Suggested Teaching Learning method-Lecture,Small group discussion</b><br><b>Suggested Assessment method-written,Viva voce</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration-ENT</b>     |
| PE31.3  | Describe the etio-pathogenesis clinical features and management of Atopic dermatitis in children <ol style="list-style-type: none"> <li>1) Describe the etio-pathogenesis of Atopic Dermatitis in children</li> <li>2) List the clinical features of a child with Atopic Dermatitis</li> <li>3) Describe the management principles of a child with Atopic dermatitis</li> </ol>  | <b>Domain K/S/A/C</b><br><b>Level K/KH/SH/P</b><br><b>Core (Y/N)</b><br><b>Suggested Teaching Learning method-Lecture,Small group discussion</b>   |

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|  | 4) Write a prescription for a 5 year old child with Atopic Dermatitis | <b>Suggested Assessment method-written,Viva voce<br/>Number required to certify 3<br/>Vertical /Horizontal Integration-ENT</b> |
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General surgery

| <b>No</b> | <b>COMPETENCY<br/>The student should be able to:</b>  |  |
|-----------|---|--|
| SU20.1    | Describe etiopathogenesis of oral cancer, symptoms and signs of pharyngeal cancer. Enumerate the appropriate investigations and discuss the principles of treatment | <b>Domain      K/S/A/C</b><br><b>Level        K/KH/ SH/P</b><br><b>Core         (Y/N)</b><br><b>Suggested Teaching Learning method-</b><br><b>Lecture,Small group discussion</b><br><b>Suggested Assessment method-written,Viva</b><br><b>voce</b><br><b>Number required to certify 3</b><br><b>Vertical /Horizontal Integration-ENT</b> |