

## ภาคผนวก ๑

เนื้อหาของการฝึกอบรม/หลักสูตร

๑). ความรู้วิทยาศาสตร์การแพทย์พื้นฐานประยุกต์ (Correlated basic medical science) ทางโสต ศอ นาสิกวิทยา และระบบที่เกี่ยวข้อง

๑. Anatomy and physiology of hearing
๒. Basic audiology
๓. Anatomy and physiology of vestibular system
๔. Medication in ear disease
๕. Anatomy and physiology of the nose and paranasal sinus
๖. Basic immunology and immunotherapy
๗. Antihistamine, intranasal steroid and related drug
๘. Snoring and sleep disorder: basic
๙. Anatomy of the neck
๑๐. Voice: anatomy, physiology and test
๑๑. Wound healing and physiology of flap
๑๒. Radiotherapy in head and neck cancer
๑๓. Chemotherapy In head and neck cancer
๑๔. Anesthesia and pain management
๑๕. Basic radiologic imaging
๑๖. Antibiotic: pharmacology and application
๑๗. Common contagious disease in clinical practice

๑๘. Nutrition: evaluation and management

๑๙. Laser; basic principle and application

๒๐. Medical law and ethic in clinical practice

๒). โรคหรือภาวะของผู้ป่วย แบ่งเป็น

แพทย์ประจำบ้านต้องสามารถให้การวินิจฉัย ดูแลรักษา และฟื้นฟู หรือให้คำแนะนำเพื่อส่งต่อได้

ในโรคทางหูคอจมูกฯ ต่อไปนี้

ระดับที่ ๑ โรคหรือภาวะที่พบบ่อย ซึ่งแพทย์ประจำบ้านสามารถเรียนรู้ได้จากผู้ป่วยโดยตรง

|                    |                                       |
|--------------------|---------------------------------------|
| Symptom and sign   | Epistaxis (R040)                      |
|                    | Cough (R05)                           |
|                    | Stridor (R061)                        |
|                    | Mouth breathing (R065)                |
|                    | Sneezing (R067)                       |
|                    | Snoring (R0683)                       |
|                    | Pain in throat (R070)                 |
|                    | Asphyxia (R0901)                      |
|                    | Hypoxemia (R09.2)                     |
|                    | Nasal congestion (R0981)              |
|                    | Postnasal drip (R0982)                |
|                    | Dysphagia (R13)                       |
|                    | Halitosis (R196)                      |
|                    | Neck mass (R221)                      |
|                    | Facial weakness (R29810)              |
|                    | Speech and voice (R47-R49)            |
|                    | Localized enlarged lymph nodes (R590) |
| Disease of the ear | Otalgia (H92)                         |
|                    | Otorrhea (H921)                       |
|                    | Otitis externa (H60)                  |

|                                                      |
|------------------------------------------------------|
| Diffuse otitis externa (H603)                        |
| Chronic otitis externa (H608)                        |
| Impacted cerumen (H612)                              |
| Otomycosis: aspergillus (B448), candida (B372)       |
| Acute myringitis (H73)                               |
| Acute suppurative otitis media (H66)                 |
| Chronic mucoid otitis media (H653)                   |
| Chronic tubotympanic suppurative otitis media (H661) |
| Chronic atticoantral suppurative otitis media (H662) |
| Chronic mastoiditis (H701)                           |
| Acute serous otitis media (H65)                      |
| Chronic serous otitis media (H652)                   |
| Chronic nonsuppurative otitis media (H654)           |
| Central perforation of TM (H72)                      |
| Attic perforation of TM (H721)                       |
| Marginal perforation of TM (H722)                    |
| Cholesteatoma of middle ear (H71)                    |
| Adhesive otitis media (H741)                         |
| Middle ear polyp (H744)                              |
| Obstruction of Eustachian tube (H681)                |
| Tympanosclerosis (H74)                               |
| Otosclerosis (H80)                                   |
| Bell's palsy (G51)                                   |
| Conductive and sensorineural hearing loss (H90)      |
| Congenital deafness (H90)                            |
| Sudden (idiopathic) SNHL (H912)                      |
| Meniere disease (H81)                                |
| BPPV (H811)                                          |
| Vestibular neuronitis (H812)                         |
| Labyrinthine dysfunction (H832)                      |

|                                         |                                                 |
|-----------------------------------------|-------------------------------------------------|
|                                         | Noise-induced HL (H833)                         |
|                                         | Presbycusis (H911)                              |
|                                         | Acoustic neuroma (H933)                         |
|                                         | Tinnitus (H931)                                 |
| Disease of the nose and paranasal sinus | Acute nasopharyngitis (common cold) (J00)       |
|                                         | Chronic nasopharyngitis (J311)                  |
|                                         | Allergic rhinitis (J30)                         |
|                                         | Chronic rhinitis: atrophic, granulomatous (J31) |
|                                         | Vasomotor rhinitis (J30)                        |
|                                         | Acute sinusitis (J01)                           |
|                                         | Chronic sinusitis (J32)                         |
|                                         | Nasal polyp (J33)                               |
|                                         | Cyst and mucocele of nose and PNS (J341)        |
|                                         | Deviated nasal septum (J342)                    |
|                                         | Hypertrophy of nasal turbinate (J343)           |
| Disease of the pharynx and tonsil       | Acute pharyngitis (J02)                         |
|                                         | Chronic pharyngitis (J312)                      |
|                                         | Acute tonsillitis (J03)                         |
|                                         | Chronic tonsillitis (J35)                       |
|                                         | Hypertrophy of tonsils (J351)                   |
|                                         | Hypertrophy of adenoid (J352)                   |
|                                         | Peritonsillar abscess (J36)                     |
|                                         | Retropharyngeal space abscess (J39)             |
|                                         | Parapharyngeal space abscess (J39)              |
|                                         | Masticator space abscess .....                  |
| Disease of the larynx                   | Acute laryngitis (J04)                          |
|                                         | Acute tracheitis (J041)                         |
|                                         | Acute laryngotracheitis (J042)                  |

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
|                               | Acute laryngotracheobronchitis (croup) (J05)              |
|                               | Acute laryngopharyngitis (J06)                            |
|                               | Acute epiglottitis (J051)                                 |
|                               | Chronic laryngitis (J37)                                  |
|                               | Chronic laryngotracheitis (J371)                          |
|                               | Vocal cord paralysis (J38)                                |
|                               | Vocal polyp (J381)                                        |
|                               | Vocal nodule (J382)                                       |
|                               | Laryngeal stenosis (J386)                                 |
|                               | Postprocedural subglottic stenosis (J955)                 |
| Disease of oral cavity and GI | Oral aphthous (K12)                                       |
|                               | Oral mucositis (K123)                                     |
|                               | Leukoplakia, erythroplakia (K132)                         |
|                               | Gastroesophageal reflux disease (K21)                     |
|                               | Sialoadenitis (K112)                                      |
|                               | Abscess of salivary gland (K113)                          |
|                               | Sialolithiasis (K115)                                     |
|                               | Mucocele of salivary gland: retention cyst, ranula (K116) |
|                               | Xerostomia (K117)                                         |
| Disease of the thyroid gland  | Nontoxic goiter (E04)                                     |
|                               | Thyrotoxicosis (E05)                                      |
|                               | Thyroiditis (E06)                                         |
|                               | Postprocedural hypothyroidism (E89)                       |
|                               | Postprocedural hypoparathyroidism (E892)                  |
| Congenital disease            | Preauricular sinus and cyst (Q181)                        |
|                               | Choanal atresia (Q30)                                     |
|                               | Ankyloglossia (Q381)                                      |
|                               | Congenital subglottic stenosis (Q311)                     |
|                               | Laryngocele (Q313)                                        |
|                               | Congenital laryngomalacia (Q315)                          |

|                    |                                                           |
|--------------------|-----------------------------------------------------------|
|                    | Congenital tracheomalacia (Q32)                           |
|                    | Sinus, fistula and cyst of branchial cleft (Q18)          |
| Injury             | Fracture of base of skull (S021)                          |
|                    | Fracture of nasal bone (S022)                             |
| Foreign body       | FB in nasal sinus (T17)                                   |
|                    | FB in nostril (T171)                                      |
|                    | FB in mouth (T18)                                         |
|                    | FB in pharynx (T172)                                      |
|                    | FB in esophagus (T181)                                    |
|                    | FB in larynx (T173)                                       |
|                    | FB in trachea (T174)                                      |
|                    | FB in bronchus (T175)                                     |
| Benign neoplasm    | Benign neoplasm of nasal cavity and paranasal sinus (D14) |
|                    | Benign neoplasm of lip (D10)                              |
|                    | Benign neoplasm of tongue (D101)                          |
|                    | Benign neoplasm of floor of mouth (D102)                  |
|                    | Benign neoplasm of mouth (D10)                            |
|                    | Benign neoplasm of tonsil (D104)                          |
|                    | Benign neoplasm of nasopharynx (D106)                     |
|                    | Benign neoplasm of hypopharynx (D107)                     |
|                    | Benign neoplasm of pharynx (D10)                          |
|                    | Benign neoplasm of larynx (D141)                          |
|                    | Benign neoplasm of lymph node (D36)                       |
|                    | Benign neoplasm of thyroid gland (D34)                    |
|                    | Benign neoplasm of major salivary glands (D11)            |
|                    | Hemangioma and lymphangioma (D18)                         |
| Malignant neoplasm | CA nasal cavity (C30)                                     |
|                    | CA lip (C00)                                              |
|                    | CA oral tongue (C02)                                      |
|                    | CA gum (C03)                                              |

|                                                       |
|-------------------------------------------------------|
| CA floor of mouth (C0.4)                              |
| CA hard palate (C051)                                 |
| CA buccal mucosa (C06)                                |
| CA base of tongue (C01)                               |
| CA soft palate (C052)                                 |
| CA tonsil (C09)                                       |
| CA oropharynx (C10)                                   |
| CA nasopharynx (C11)                                  |
| CA pyriform (C12)                                     |
| CA hypopharynx (C13)                                  |
| CA paranasal sinus (C31)                              |
| CA larynx (32)                                        |
| CA thyroid (C73)                                      |
| CA parotid (C07)                                      |
| Unknown primary malignant neoplasm of neck node (C77) |

ระดับที่ ๒ โรคหรือภาวะที่พบน้อยกว่าระดับที่ ๑ และมีความสำคัญซึ่งแพทย์ประจำบ้าน สามารถ

เรียนรู้จากผู้ป่วยแต่ไม่ได้ดูแลผู้ป่วยโดยตรง เช่น การร่วมดูแลในหอผู้ป่วยด้วยกัน เป็นต้น

|                    |                                           |
|--------------------|-------------------------------------------|
| Disease of the ear | Abscess of external ear (H600)            |
|                    | Cellulitis of external ear (H601)         |
|                    | Perichondritis of external ear (H610)     |
|                    | Erysipelas of external ear (H62)          |
|                    | Herpes zoster oticus (B028)               |
|                    | Acute otitis externa, noninfective (H605) |
|                    | Malignant otitis externa (H602)           |
|                    | Chronic myringitis (H731)                 |
|                    | Acute mastoiditis (H70)                   |
|                    | Acute nonsuppurative otitis media (H651)  |

|                                         |                                                                         |
|-----------------------------------------|-------------------------------------------------------------------------|
|                                         | Ossicular chain discontinuity or dislocation (H742)                     |
|                                         | Labyrinthitis (H83)                                                     |
|                                         | Acoustic trauma (H833)                                                  |
|                                         | Ototoxic hearing loss (H91)                                             |
|                                         | Acoustic neuritis in syphilis (otosyphilis) (A521)                      |
|                                         | Vertigo of central origin (H814)                                        |
|                                         | Transient ischemic deafness (H93)                                       |
| Disease of the nose and paranasal sinus | Abscess, furuncle and carbuncle of nose (J34)                           |
|                                         | Granuloma and granuloma-like lesion of oral mucosa (K134)               |
| Disease of oral cavity and GI           | Oral submucous fibrosis (K135)                                          |
|                                         | Glossitis (K14)                                                         |
|                                         | Geographic tongue (K141)                                                |
|                                         | Median rhomboid glossitis (K142)                                        |
|                                         | Hypertrophic of tongue papillae (K143)                                  |
|                                         | Atrophy of tongue papillae (K144)                                       |
|                                         | Fissure tongue (K145)                                                   |
|                                         | Fistula of salivary gland (K114)                                        |
|                                         | Benign lymphoepithelial lesion of salivary gland (K118)                 |
|                                         | Sialiectasia (K118)                                                     |
|                                         | Stenosis and stricture of salivary duct (K118)                          |
|                                         | Jaw cyst: dentigerous, eruption, follicular (K09)                       |
|                                         | Other jaw cyst: aneurismal, hemorrhagic, traumatic (K092)               |
|                                         | Nasolabial cyst (nasopalveolar cyst) (K091)                             |
|                                         | Nasopalatine duct (incisive canal) cyst (K091)                          |
|                                         | Other cyst in oral region: dermoid, epidermoid, lymphoepithelial (K098) |
|                                         | Osteoradionecrosis (K102)                                               |
| Congenital disease                      | Congenital absence of ear auricle (Q16)                                 |

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
|                    | Congenital absence, atresia and stricture of auditory canal (external) (Q161) |
|                    | Microtia (Q173)                                                               |
|                    | Congenital malformation of ear ossicles (Q163)                                |
|                    | Congenital malformation of inner ear (Q165)                                   |
|                    | Macroglossia (Q382)                                                           |
|                    | Congenital laryngeal web (Q31)                                                |
| Injury             | Superficial injury of ear (S004)                                              |
|                    | Open wound of ear (S013)                                                      |
|                    | Superficial injury of nose (S003)                                             |
|                    | Open wound of nose (S012)                                                     |
|                    | Open wound of pharynx and esophagus (S112)                                    |
|                    | Open wound of larynx and trachea (S11)                                        |
|                    | Open wound of neck (S11)                                                      |
|                    | Injury of blood vessels at neck level (S15)                                   |
|                    | Superficial injury of neck (S10)                                              |
|                    | Open wound of cheek and temporomandibular area (S014)                         |
|                    | Fracture of mala, maxillary and zygoma bone (S024)                            |
|                    | Fracture of mandible (S026)                                                   |
| Benign neoplasm    | Benign neoplasm of middle ear (D14)                                           |
|                    | Benign neoplasm of carotid body (D355)                                        |
|                    | Benign neoplasm of bone and cartilage: skull and face (D164), mandible (D165) |
|                    | Benign lipomatous neoplasm of skin and subcutaneous tissue (D17)              |
|                    | Melanocytic naevi (D22)                                                       |
|                    | Benign neoplasm of skin (D23)                                                 |
|                    | Benign neoplasm of peripheral nerve (D361)                                    |
| Malignant neoplasm | CA retromolar trigone (C062)                                                  |

|  |                                                                            |
|--|----------------------------------------------------------------------------|
|  | CA submandibular gland (C08)                                               |
|  | Malignancy of bone and cartilage: skull and face (C41),<br>mandible (C411) |
|  | Melanoma of skin (C43)                                                     |
|  | Basal cell CA (C44)                                                        |
|  | Kaposi sarcoma (C46)                                                       |
|  | Malignant neoplasm of peripheral nerve (C47)                               |

ระดับที่ ๓ โรคที่พบน้อยแต่มีความสำคัญ ซึ่งแพทย์ประจำบ้านสามารถเรียนรู้โดยการศึกษาด้วยตนเอง หรือฟังบรรยาย และสถาบันฝึกอบรมควรจัดให้มีการเรียนรู้โรคในกลุ่มนี้อย่างพอเพียง

|                                            |                                                  |
|--------------------------------------------|--------------------------------------------------|
| Disease of the ear                         | External ear cholesteatoma (H604)                |
|                                            | Acquired stenosis of external ear canal (H613)   |
|                                            | Exostosis of external ear canal (H618)           |
|                                            | Petrositis (H702)                                |
|                                            | Eustachian salpingitis (H68)                     |
|                                            | Patulous Eustachian tube (H69)                   |
|                                            | Otitic barotrauma (T70)                          |
|                                            | Melkersson's syndrome (G512)                     |
|                                            | Labyrinthine fistula (H831)                      |
|                                            | Lermoyez syndrome (H813)                         |
|                                            | Abnormal auditory perception (H932)              |
|                                            | Psychogenic deafness (F446)                      |
|                                            | Degenerative and vascular disorders of ear (H93) |
| Disease of the nose and<br>paranasal sinus | Perforation of nasal septum (J348)               |
|                                            | Rhinolith (J348)                                 |
| Disease of pharynx and tonsil              | Infectious mononucleosis (H27)                   |
| Disease of oral cavity and GI              | Hairy leukoplakia (K133)                         |
|                                            | esophageal obstruction (K222)                    |

|                    |                                                  |
|--------------------|--------------------------------------------------|
|                    | perforation of esophagus (K223)                  |
|                    | Mikulicz disease (K118)                          |
|                    | Necrotizing sialometaplasia (K118)               |
| Injury             | Superficial injury of lip and oral cavity (S005) |
|                    | open wound of lip and oral cavity (S015)         |
|                    | fracture of orbital bone (S023)                  |
|                    | dislocation of jaw (S03)                         |
| Benign neoplasm    | Benign neoplasm of trachea (D142)                |
|                    | Benign neoplasm of parathyroid gland (D351)      |
| Malignant neoplasm | CA middle ear (C301)                             |
|                    | CA trachea (C33)                                 |
|                    | CA parathyroid (C75)                             |

๓). การตรวจพิเศษเฉพาะทางโสต ศอ นาสิกวิทยา

ระดับที่ ๑ สามารถตรวจ และแปลผลได้ด้วยตนเอง

|                              |
|------------------------------|
| Schirmer's test              |
| Pure tone audiometry         |
| Speech audiometry            |
| Acoustic impedance test      |
| OAE                          |
| Lacrimal sac irrigation      |
| Skin prick test              |
| Intradermal test             |
| Nasal provocation test       |
| Endpoint titration skin test |
| Stroboscopy                  |

ระดับที่ ๒ สามารถส่งตรวจ และแปลผลได้ด้วยตนเอง

|                                     |
|-------------------------------------|
| Plain film (เฉพาะส่วนที่เกี่ยวข้อง) |
| CT scans (เฉพาะส่วนที่เกี่ยวข้อง)   |
| MRI (เฉพาะส่วนที่เกี่ยวข้อง)        |
| ABR                                 |
| PRIST                               |
| RAST                                |
| Polysomnography                     |
| Portable sleep study                |
| Cephalometry                        |

ระดับที่ ๓ สามารถส่งตรวจ และนำผลไปประยุกต์ใช้ได้

|                                       |
|---------------------------------------|
| Salivary flow test                    |
| Taste test                            |
| ENoG                                  |
| MST                                   |
| EEMG                                  |
| EMG                                   |
| Bone scan                             |
| thyroid scan                          |
| PET scan                              |
| Angiography                           |
| Olfactory test                        |
| Test of mucociliary function          |
| Rhinomanometry                        |
| Acoustic rhinometry                   |
| Nasal cytology                        |
| Cytokines assays                      |
| Multiple sleep latency test (MSLT)    |
| Maintenance of wakefulness test (MWT) |

|                     |
|---------------------|
| Caloric test        |
| Smooth pursuit test |
| Saccadic test       |
| ENG                 |
| VNG                 |
| Postural test       |
| Rotatory test       |
| VEMP                |
| SVV                 |
| Voice analysis      |
| Nasometry           |
| Pathology           |

๔). หัตถการทางโสต ศอ นาสิกวิทยา

ระดับที่ ๑ หัตถการที่แพทย์ประจำบ้านต้องทำได้ด้วยตนเอง

|             |                                                      |
|-------------|------------------------------------------------------|
| Ear surgery | Preauricular sinus/fistula/cyst: excision)           |
|             | Ear canal osteoma: removal                           |
|             | Hearing aid fitting                                  |
|             | Myringotomy/myringotomy with PE tube                 |
|             | Mastoidectomy: canal wall down                       |
|             | Vestibular rehabilitation (CRP, exercise)            |
|             | Tympanoplasty type I                                 |
|             | Seroma/hematoma/pseudocyst: I&D, perichondritis: I&D |
|             | Keloid of pinna: excision                            |
|             | Minor defect of pinna: repair                        |
|             | Ear canal furuncle: I&D                              |
|             | Ear canal FB/impact wax: remove                      |
|             | Ear canal mass: biopsy                               |

|                                   |                                                                            |
|-----------------------------------|----------------------------------------------------------------------------|
|                                   | Temporal bone dissection (lab)                                             |
|                                   | Mastoidectomy: canal wall up                                               |
| Facial surgery and reconstruction | Intermaxillary fixation                                                    |
|                                   | Nasal bone fracture: closed reduction                                      |
|                                   | Skin graft of head and neck                                                |
|                                   | Local flap/Z-plasty of head and neck                                       |
|                                   | Scar revision of head and neck                                             |
|                                   | Mole: excision with/without CO2 laser                                      |
|                                   | Facial lesion - moderate to large defect: repair                           |
|                                   | Facial lesion (except mole): excisional biopsy                             |
|                                   | Rhinoplasty                                                                |
|                                   | Regional flap                                                              |
|                                   |                                                                            |
| Laryngeal surgery                 | Vocal fold lesion surgery                                                  |
|                                   | Esophagoscopy +/- intervention                                             |
|                                   | Flexible laryngoscopy/esophagoscopy                                        |
|                                   | Direct laryngoscopy / bronchoscopy +/- intervention                        |
|                                   | Tracheostomy                                                               |
|                                   | Cricothyrotomy                                                             |
|                                   | Laryngectomy, total                                                        |
| Neck surgery                      | Deep neck infection: I&D                                                   |
|                                   | Benign neck mass/ cyst (branchial cleft, thyroglossal duct, etc): excision |
|                                   | Submandibular gland excision                                               |
|                                   | Cervical lymph node biopsy                                                 |
|                                   | Fine needle aspiration of neck mass (FNA)                                  |
|                                   | Thyroidectomy: lobectomy, total                                            |
|                                   | Skin biopsy (exclude facial lesion)                                        |
|                                   | Superficial neck abscess: I&D                                              |
|                                   | Parotidectomy                                                              |
|                                   | Neck dissection                                                            |

|                             |                                                               |
|-----------------------------|---------------------------------------------------------------|
| Oral and pharyngeal surgery | Excision lip and repair                                       |
|                             | Quinsy: I&D/ aspiration                                       |
|                             | Glossectomy, partial, total                                   |
|                             | Adenoidectomy/nasopharyngeal curettage                        |
|                             | Tonsillectomy                                                 |
|                             | Intraoral biopsy                                              |
| Nasal surgery               | Antral puncture/irrigation                                    |
|                             | Submucosal resection/ septoplasty                             |
|                             | Turbinoplasty/ turbinectomy/ turbinate reduction              |
|                             | Caldwell-Luc operation/ sublabial approach                    |
|                             | Posterior nasal packing                                       |
|                             | Nasal FB: remove                                              |
|                             | Nasal or nasopharyngeal biopsy                                |
|                             | Endoscopic middle meatal antrostomy (4)                       |
|                             | Endoscopic anterior ethmoidectomy (2)                         |
|                             | Anterior nasal packing                                        |
|                             | Nasal endoscopic examination                                  |
|                             | Abscess/hematoma of nasal septum/vestibule/floor of nose: I&D |
|                             | Nasolabial cyst: excision                                     |

ระดับที่ ๒ หัตถการที่แพทย์ประจำบ้านควรทำได้ หรือทำได้ภายใต้การแนะนำของผู้เชี่ยวชาญ

|                                   |                                            |
|-----------------------------------|--------------------------------------------|
| Ear surgery                       | Mastoidectomy: canal wall up               |
|                                   | Exploratory tympanotomy +/- ossiculoplasty |
|                                   | Stapedectomy/ stapedotomy                  |
|                                   | Facial nerve operation                     |
|                                   | Tympanoplasty type II-V                    |
| Facial surgery and reconstruction | Zygomatic fracture: reduction              |
|                                   | Blow-out fracture: reduction               |

|                             |                                                                |
|-----------------------------|----------------------------------------------------------------|
|                             | Facial fracture (except nasal, zygoma, blow out):<br>reduction |
|                             | Otoplasty                                                      |
|                             | Ala plasty                                                     |
| Laryngeal surgery           | Laryngofissure                                                 |
|                             | Tracheal resection                                             |
|                             | Laryngotracheal injury: repair                                 |
|                             | Cord medialization/ lateralization                             |
| Neck surgery                | Neck injury, repair explore neck                               |
|                             | Mandibulotomy/ mandibulectomy                                  |
|                             | Elongated styloid process: excision                            |
| Oral and pharyngeal surgery | Laser assisted uvulopalatoplasty/<br>uvulopalatopharyngoplasty |
|                             | Oro-antral fistula: repair                                     |
|                             | Lateral rhinotomy                                              |
|                             | Maxillectomy, total                                            |
| Nasal surgery               | Endoscopic posterior ethmoidectomy (0)                         |
|                             | Endoscopic sphenoidectomy (0)                                  |
|                             | Maxillectomy, medial                                           |
|                             | Facial degloving                                               |
|                             | Nasal osteotomy                                                |

ระดับที่ ๓ หัตถการที่แพทย์ประจำบ้านอาจทำได้ หรือสามารถช่วยผ่าตัดได้ หรือเคยได้เห็น หรือ

สามารถบอกข้อบ่งชี้ ข้อห้าม ภาวะแทรกซ้อน ข้อดีข้อเสียได้

|             |                             |
|-------------|-----------------------------|
| Ear surgery | Cochlear implant            |
|             | Cochlear implant – training |
|             | Acoustic neuroma surgery    |
|             | Labyrinthectomy             |

|                                   |                                                          |
|-----------------------------------|----------------------------------------------------------|
|                                   | Vestibular neurectomy                                    |
|                                   | Endolymphatic sac surgery)                               |
|                                   | Posterior canal occlusion                                |
|                                   | Speech training (delayed, alarynx, vocal abuse, aphonia) |
| Facial surgery and reconstruction | Microvascular free flap                                  |
| Laryngeal surgery                 | Laryngectomy, conservation                               |
| Nasal surgery                     | Angiofibroma: remove                                     |
|                                   | Endoscopic frontal sinus surgery (0)                     |
|                                   | External ethmoidectomy/<br>frontoethmoidosphenoidectomy  |
|                                   | Cleft lip/cleft palate: repair                           |