



European Board Examination in Otorhinolaryngology - Head and Neck Surgery by the UEMS - ORL Section

I. Basic Objectives

- 1 emergency medicine and resuscitation
- 2 infection control
- 3 antimicrobial therapy
- 4 transfusions medicine/blood grouping/cross-matching etc.
- 5 haemostasis
- 6 oncology
- 7 wound healing
- 8 general surgical techniques
- 9 basics in plastic and reconstructive surgery
- 10 transplantation medicine
- 11 soft tissue and bone traumatology
- 12 immunology
- 13 endocrinology
- 14 oral and parenteral nutrition
- 15 basic psychosomatic investigation/management
- 16 radiation protection
- 17 medical quality control
- 18 ethical principles/consent for operation
- 19 basic nutritional medicine
- 20 basic laboratory procedures
- 21 basic laboratory investigations,
 - a. indication, correct taking and handling of samples and interpretation of the results
 - b. interpretation of the results
- 22 normal blood values
- 23 bacteriology/mycology
- 24 principal detection of fungi (cell culture)
- 25 antimicrobial medication
- 26 analysis of tumour-markers
- 27 allergology laboratory investigations

II. Otology

A. Diagnostic Procedures

a.) CLINICAL EXAMINATION

- 1 otoscopy
- 2 endoscopy
- 3 microscopy

b.) HEARING FUNCTION

- 1 hearing distance test
- 2 tuning fork tests
- 3 impedance audiometry
- 4 pure tone audiometry
- 5 speech audiometry
- 6 supraliminal audiometry
- 7 objective hearing test
 - a. evoked response audiometry (ERA, BERA)
 - b. oto-acoustic emissions (OAE)
- 8 paediatric audiology
 - a. screening methods
 - b. objective methods
 - c. subjective methods

c.) VESTIBULAR FUNCTION

- 1 spontaneous nystagmus
- 2 induced nystagmus
 - a. positional nystagmus
 - b. caloric testing
 - c. electronystagmography
 - d. rotating chair test
 - e. spinal reflexes (Unterberger, Romberg)
 - f. posturography
 - g. videonystagmography

d.) FACIAL NERVE FUNCTION

- 1 topodiagnostic testing
 - a. e.g. Schirmer's test, gustatory tests, stapedial reflex
- 2 neurophysiological testing
 - a. nerve stimulation tests (e.g. MST, NMG (ENoG), TFR ...)
 - b. electromyography

e.) INTERPRETATION OF RELEVANT IMAGING

- 1 conventional X-Ray, CT, MRI, Angiography

B. Non-surgical Management

- 1 pharmacological treatment and/or physical rehabilitation:
- 2 ear infection
- 3 sensorineural deafness
- 4 tinnitus
- 5 vertigo and disequilibrium
- 6 facial nerve paresis / paralysis
- 7 post-op care

C. Surgical Management

- 1 temporal bone dissections (lab.)
- 2 local and regional anaesthesia
- 3 management of oto-haematoma
- 4 removal of osteomas
- 5 otoplasty
- 6 meatoplasty



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- 7 foreign body removal
- 8 polyps of auditory meatus
- 9 myringotomy
- 10 ventilation tubes
- 11 myringoplasty
- 12 tympanotomy
- 13 antrotomy
- 14 mastoidectomy
 - a. simple
 - b. modified
 - c. radical
- 15 tympanoplasty (reconstruction of ossicles)
- 16 implantation of prosthesis
 - a. middle ear prosthesis
 - b. bone anchored hearing aids
 - c. cochlear implants
- 17 stapedectomy / stapedotomy
- 18 saccotomy
- 19 neurectomy (vestibular nerve section)
- 20 acoustic neurinoma surgery
- 21 facial nerve surgery
 - a. decompression
 - b. grafting
 - c. monitoring
- 22 glomus tumour surgery
- 23 petrosectomy
- 24 skull base surgery (otobasis) with reconstruction
- 25 correction of malformations
 - a. auricle
 - b. fistulas
 - c. outer ear canal
 - d. middle ear
- 26 repair of injuries
- 27 auricle
- 28 outer ear canal
- 29 middle and inner ear including nerves, vessels and dura of the temporal bone compartment
- 30 surgery of tumours
 - a. auricle
 - b. outer ear canal
 - c. middle and inner ear including nerves, vessels and dura of the temporal bone compartment

III. Nose and paranasal sinuses

- A. Diagnostic Procedures
 - a.) CLINICAL EXAMINATION
 - 1 assessment and ethnic variation
 - 2 aesthetic proportions of the face
 - 3 effects of aging process
 - 4 anterior and posterior rhinoscopy
 - 5 endoscopy
 - 6 microscopy
 - 7 photography
 - b.) TESTS OF FUNCTIONS
 - 1 rhinomanometry
 - 2 acoustic rhinometry
 - 3 olfactory tests (subjective, objective)
 - 4 ciliary function tests
 - c.) IMAGING
 - 1 ultrasound scan (a- and b-mode)
 - 2 X-ray conventional
 - 3 interpretation of
 - a. CT-scan
 - b. MR-imaging
 - c. Isotope scan (szinti-scan)
 - d. Angiography
 - d.) ALLERGY INVESTIGATIONS
 - 1 epicutaneous allergen tests
 - 2 intracutaneous allergen tests (Prick, Scratch)
 - 3 nasal provocation tests
 - 4 nasal cytology
 - 5 eliminative tests
 - 6 interpretation of serological tests (RAST, IgE)
- B. Non-surgical Management
 - 1 pharmacological therapy
 - 2 specific immunotherapy (hyposensitization)
 - 3 anaphylaxis reaction therapy
- C. Surgical Management
 - a.) Nose
 - 1 local and regional anaesthesia
 - 2 control of nasal epistaxis
 - a. nasal packing
 - b. nasal cautery
 - 3 foreign body removal
 - 4 nasal polypectomy
 - 5 turbinate surgery



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- 6 reposition of nasal fractures
 - 7 incising abscesses
 - 8 septal surgery
 - 9 revision septoplasty
 - 10 septum perforation repair
 - 11 closed rhinoplasty
 - 12 open rhinoplasty
 - 13 revision rhinoplasty
 - 14 complicated rhinoplasty
 - 15 augmentation rhinoplasty
 - 16 cleft patient rhinoplasty
 - 17 reduction rhinoplasty
 - 18 rhinophyma operation
 - 19 correction of malformations (e.g. choanal atresia, fistulas, dermoids, etc.)
 - 20 management of immediate post-operative complications
- b.) Paranasal Sinuses
- 1 sinus endoscopy
 - 2 antral lavage
 - 3 endoscopic antrostomy
 - 4 radical antrostomy (Caldwell-Luc)
 - 5 frontal sinus trephination
 - 6 external frontal sinus surgery
 - 7 external ethmoidectomy
 - 8 endonasal ethmoidectomy (endoscopic, microscopic)
 - 9 fronto-ethmoidectomy (endoscopic)
 - 10 sphenoid sinus surgery
 - 11 revision paranasal sinuses operation
 - 12 closure of oro-antral fistula
 - 13 ligation of maxillary or ethmoidal artery
 - 14 orbital decompression procedures
 - 15 dacryo-cysto-rhinostomy
 - 16 management of CSF leak
 - 17 tumour surgery
 - a. maxillectomy (partial, total)
 - b. lateral rhinotomy
 - c. midfacial degloving
 - d. combined approach to the anterior skull base
 - e. orbitotomy
 - f. exenteration of orbit
 - g. surgery of the anterior skull base (incl. osteoplastic flap, dura plasty and related techniques)
 - 18 repair of injuries (traumatology)
 - a. soft tissue injuries
 - b. nasal fractures
 - c. septal haematoma
 - d. paranasal sinus fractures
 - e. fractures of orbit including blow out fracture
 - f. fractures of zygoma
 - g. optic nerve decompression
 - h. reconstruction of the anterior skull base
- IV. Larynx. Tracheobronchial tree
- A. DIAGNOSTIC PROCEDURES
- a.) CLINICAL EXAMINATION (*in adults and children*)
- 1 Indirect mirror laryngoscopy
 - 2 Flexible endoscopic examination of larynx, trachea, bronchi, with or without washings for cytology
 - 3 stroboscopy
 - 4 Direct laryngoscopy with or without swabs for microbiological assessment
 - 5 microlaryngoscopy
 - 6 Endolaryngeal, endotracheal and endobronchial biopsy
- b.) INTERPRETATION OF RELEVANT IMAGING
- 1 ultrasound scan, plain X-Ray, CT, MRI, PET
- c.) INVESTIGATIONS
- 1 Techniques in voice analysis
 - 2 electromyography
- B. Non-surgical Management
- 1 Care of the professional voice
 - 2 Voice restoration following laryngectomy/ total laryngectomy (care of the valve prosthesis)
 - 3 Medical management of laryngotracheal disease
- C. Surgical Management
- 1 Topical, local and regional anaesthesia
 - 2 removal of foreign bodies from larynx, trachea and bronchi
 - 3 endotracheal intubation
 - 4 Tracheotomy - tracheostomy (including percutaneous)
 - 5 closure of tracheostome
 - 6 Incision of crico-thyroid membrane
 - 7 Endolaryngeal, endotracheal and bronchial laser surgery
 - 8 surgery for unilateral cord palsy
 - 9 surgery for bilateral cord palsy
 - 10 Phonosurgery (surgery for voice and speech)
 - a. Frame work surgery (thyroplasty)



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- b. Vocal cord augmentation
- c. Botulinus toxin injection
- 11 Management of blunt and open laryngo-tracheal injury
- a.) SURGERY FOR LARYNGEAL TRACHEAL AND BRONCHIAL NEOPLASMS
 - 1 endolaryngeal surgery for early cancer
 - 2 endolaryngeal laser surgery for tumours in upper aerodigestive tract
 - 3 Laryngectomy
 - a. total
 - b. partial
 - 4 Laryngo-pharyngo-oesophagectomy with flap reconstruction or viscus interposition
 - 5 Techniques for insertion of valves for voice rehabilitation
 - 6 Management of laryngo-tracheal stenosis
 - 7 Tracheal and bronchial stenting
 - 8 Repair of tracheo-oesophageal fistula in adults
- b.) LARYNGEAL TRACHEAL AND BRONCHIAL DISEASES IN CHILDREN
 - 1 Assessment and management of acute airway obstruction in children
- c.) SURGICAL MANAGEMENT OF CONGENITAL MALFORMATIONS
 - 1 Supraglottic stenosis
 - 2 Laryngeal web
 - 3 Subglottic haemangioma
 - 4 Vocal cord paralysis
 - 5 Laryngeal cleft
 - 6 Vascular compression
- d.) SURGICAL MANAGEMENT OF ACQUIRED CONDITIONS IN CHILDREN
 - 1 Laryngeal papilloma
 - 2 Tracheal stenosis
 - 3 Inhalational injury
- V. Oral Cavity. Pharynx and Oesophagus
- A. DIAGNOSTIC PROCEDURES
- a.) CLINICAL EXAMINATION
 - 1 inspection and palpation of oral cavity and oropharynx
 - 2 endoscopic assessment of oral cavity, pharynx and oesophagus, with flexible and rigid endoscopes, including biopsies, preparation of swabs, washings, and related techniques.
 - 3 gustometry
 - 4 functional tests of swallowing disorders
 - 5 principles of assessment and diagnosis of sleep apnoea
 - 6 principles of speech assessment and rehabilitation
- b.) INTERPRETATION OF RELEVANT IMAGING
 - 1 ultrasound scan, conventional X-Ray, OPG, CT, MRI, esophagogram
 - 2 diagnosis and interpretation of swallowing disorders including reflux
- B. Non-surgical Management
 - 1 pharmacological therapy
 - 2 swallowing and aspiration rehabilitation
 - 3 non surgical treatment of sleep apnoea and roncopathy
- C. Surgical Management
 - 1 local and regional anaesthesia
 - 2 adenoidectomy
 - 3 tonsillectomy
 - 4 abscess tonsillectomy (hot tonsillectomy)
 - 5 arrest of tonsillar haemorrhage
 - 6 drainage of abscess
 - a. peri- and retrotonsillar
 - b. para- and retro-pharyngeal
 - c. base of tongue
 - 7 correction of malformations
 - a. lingual frenulum
 - b. ranula
 - c. cysts inclusion
 - d. macroglossia
 - 8 sialendoscopy
 - 9 transoral removal of salivary calculi
 - 10 transposition of salivary duct
 - 11 lithotripsy
 - 12 removal of foreign bodies
 - 13 surgery of pharyngeal pouch (open or endoscopic)
 - 14 endoscopic biopsy and tumour staging
 - 15 pharyngostomy
 - 16 closure of pharyngostoma
 - 17 cricopharyngeal myotomy
 - 18 surgery of injuries
 - a. simple injuries
 - b. complex injuries
- a.) TUMOUR SURGERY
 - 1 laser surgery of oral cavity and pharynx
 - 2 resection of the tongue
 - a. partial glossectomy
 - b. hemi glossectomy
 - c. total glossectomy
 - 3 reconstruction of the tongue
 - 4 microvascular anastomoses
 - 5 resection, osteosynthesis and reconstruction of mandible



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- 6 pharyngotomy
 - 7 pharyngectomy
 - a. partial
 - b. total
 - 8 surgery for tumours of the nasopharynx
 - 9 surgery for tumours of the oropharynx and reconstruction
 - 10 resection of the lips and plastic reconstruction
 - a. simple
 - b. complex
 - 11 surgery of roncopathy and obstructive sleep-apnoea disorders including radiofrequency, UPPP, LAUP
- VI. Head and Neck and aesthetics.
- A. Diagnostic Procedures and multidisciplinary approach
- a.) CLINICAL EXAMINATION
- 1 investigation of the cranial nerves
 - a. clinical
 - b. electrophysiological
 - 2 functional tests of salivary glands
 - 3 fine needle biopsy
- b.) INTERPRETATION OF RELEVANT IMAGING
- 1 Conventional X-RAY. OPG
 - 2 CT, MRI Scan
 - 3 Ultrasound and PET
 - 4 Treatment planning
- B. Non-surgical Management
- 1 pharmacological therapy
 - 2 conservative treatment of wounds
 - 3 chemo-radiation-therapy
 - 4 application of botulinum toxin
- C. Surgical Management
- 1 Topical, local and regional anaesthesia
 - 2 management of wounds
 - a. management of wounds breakdown
 - b. management of scar tissue
 - 3 management of open neck wounds
 - 4 fistula care
 - 5 removal of
 - a. branchial cysts
 - b. surgery of benign tumours
 - c. fistulae
 - 6 incision and drainage of abscess
 - 7 surgery of skin tumours
 - a. Benign skin tumours
 - b. Malignant skin tumours
 - c. Treatment of melanoma
 - 8 correction of malformations
- a.) REPAIR OF INJURIES
- 1 management of soft tissue injuries of the lateral and middle part of the face
 - 2 combined fractures of the lateral and middle part of the face
 - 3 osteosynthesis
- b.) SURGERY OF CRANIAL NERVES (N.V, Nn.VII-XII)
- 1 exploration, decompression or neurolysis
 - 2 plastic reconstruction
- c.) DISSECTION OF TUMOURS
- 1 removal of cervical lymph-nodes
 - 2 neck dissection
 - a. selective neck dissection level I to III
 - b. selective neck dissection level I to V
 - c. modified radical neck dissection
 - d. radical neck dissection
 - e. extended neck dissection
 - 3 soft tissue neoplasms
 - 4 vascular tumours
 - 5 neurogenic tumours
- d.) SURGERY OF THE SALIVARY GLANDS
- 1 removal of the submandibular gland
 - 2 removal of the sublingual gland
 - 3 Removal of minor glands
 - 4 Parotidectomy
 - a. partial parotidectomy
 - b. suprafacial parotidectomy
 - c. subtotal parotidectomy
 - d. total parotidectomy
 - e. radical parotidectomy
- e.) SURGERY OF VESSELS
- 1 preparation and ligation of vessels
 - 2 direct or indirect catheterization of the internal jugular vein
 - 3 vascular grafting
 - 4 microvascular anastomosis
- f.) SURGERY OF THE THYROID GLAND
- 1 hemithyroidectomy
 - 2 total thyroidectomy
 - 3 Parathyroidectomy
 - 4 Level VI neck dissection



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- g.) PLASTIC AND RECONSTRUCTIVE SURGERY
 - 1 limited regional sliding and rotation flaps
 - 2 free skin grafts
 - 3 extensive plastic reconstruction
 - a. myofascial flaps
 - b. myocutaneous flaps
 - c. microvascular flaps
 - 4 facial rehabilitation
 - a. dynamic muscle flaps
 - b. static procedures
 - c. face-lifting procedures
 - d. blepharoplastia procedures
 - e. chin procedures
 - 5 bone replacement
 - 6 cartilage replacement
- h.) FACIAL PARALYSIS
 - 1 grading
 - 2 gold weight insertion
 - 3 temporalis muscle transfer
 - 4 suborbicularis oculi fat pad lift
 - 5 tarsorrhaphy
- i.) AESTHETICS
 - 1 face and brow lifting including endoscopic
 - 2 upper lid blepharoplasty
 - 3 lower lid blepharoplasty
 - 4 otoplasty
 - 5 genioplasty
 - 6 liposuction
 - 7 facial resurfacing
 - 8 botox
 - 9 injectable and implantable materials for rhytids / lip augmentation
 - 10 genioplasty / mentoplasty
 - 11 hair loss