Otolaryngology


Demonstration of microscopic examination of the ear, examination of the ear, the Eustachian tube, ENT tuning fork tests.

Otogenic intracranial complications, diagnosis of facial nerve damage: Schirmer test demonstration, taste testing and secretion of submandibular salivary glands, stapedial reflex.

Topodiagnostics of the facial nerve damage.

Hypoacusis: clinical typology, diagnostic tests, treatment.

Appliances for hearing tests.

Temporal bone surgery - from imaging evaluation to surgical techniques applied in the middle ear, including otosclerosis.

Practical evaluation of imaging examinations of the middle ear.

Endoscopic examination methods in otolaryngology: esophagoscopy, tracheobronchoscopy, microlaryngoscopy, sinuscopy.

Operating rooms / basic imaging methods in otolaryngology and selected additional tests (X-ray of the paranasal sinuses, X-ray of the nasopharynx, CT of sinuses, ear X-ray in Schuller’s and Stenvers’ projections, allergy tests, rhinomanometry).

Examination of the oral cavity and pharynx.

Acute and chronic diseases of the oral cavity, pharynx and larynx (excluding tumours of the larynx and pharynx) - diagnosis and treatment.

Demonstration of cases of inflammatory diseases of the oral cavity, pharynx and larynx, laryngostroboscopy.

Operating rooms / basic imaging methods in otolaryngology and selected additional tests (X-ray of the paranasal sinuses, X-ray of the nasopharynx, CT of sinuses, ear X-ray in Schuller’s and Stenvers’ projections, allergy tests, rhinomanometry).

Tumours of the larynx - symptoms, diagnosis, procedural algorithm, treatment / demonstration of cases.

Tumours of the nose and paranasal sinuses, symptoms, diagnosis, treatment. Examination of the larynx.

Proceedings in the case of sudden laryngeal dyspnoea.

Diseases of the esophagus, especially burns and tumours: symptoms, treatment, complications / review of diagnostic methods.
Assessment of radiological examinations performed in the diagnosis of diseases of the esophagus. Tumours of the oropharynx and nasopharynx, skull base damage syndromes. ENT manifestation of systemic diseases.
Tumour of the neck as a diagnostic problem - theoretical introduction, patient examination, application of dressings.
Demonstration and examination of patients with tumours of the neck, application of dressings.
Pre-cancerous conditions in otolaryngology – diagnostic and treatment principles.
Nose examination.
Acute and chronic sinusitis: diagnosis and treatment, intracranial complications of the sinusitis.
The causes of epistaxis; related procedures.

Demonstration of applying anterior and posterior nasal tampons in the case of epistaxis.
Examination of patients suffering from vertigo, examination techniques. Examination methods of examining the vestibular organ.
Injuries in otolaryngology (fractures of the facial skeleton, temporal bone, injuries of the neck, ear, facial integument) / demonstration of imaging examinations. Rehabilitation in otolaryngology, including hearing prosthetics and voice rehabilitation. Presentation of voice prostheses and electrolaryngeal speech. Treatment standards in head and neck oncology.

ATTITUDES
Shaping attitudes:
1. Awareness of cancer and life-threatening conditions in otolaryngology: every physician should be able to examine the pharynx, nose, ear, neck nodes, and thus to make an initial diagnosis, especially pertaining to a suspected disease requiring immediate and urgent intervention.
2. Good interpersonal skills in contacts with the patient in terms of providing most important information in otolaryngology, and using relevant terminology
3. Sensitivity to patients’ suffering, to their care of their own health, to pain and discomfort of ENT examinations – focusing on being very careful in tests and examinations performed with the use of instruments during ENT examinations.
4. Skills consisting in directing the patient to undergo relevant ENT diagnostic examinations,
properly prepared referrals for additional ENT examinations, knowledge of usefulness of specific examinations

COMPETENCES:
1. Taking the medical history of a laryngological patient
2. Anterior rhinoscopy
3. Posterior rhinoscopy
4. Examination of the oral cavity and oropharynx
5. Indirect laryngoscopy
6. Otoscopy
7. Eustachian tube patency test
8. Tuning fork tests
9. Lymph node tests

Teachers:
- Prof. dr hab. Henryk Kaźmierczak
- Dr hab. Katarzyna Pawlak-Osińska
- Dr hab. Paweł Burduk
- Dr n. med. Wojciech Kaźmierczak
- Dr n. med. Joanna Jainiak-Kiszka

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Syllabus
2. Physiology of the respiratory tract: nose, oral cavity, pharynx
3. Physiology of the larynx.
4. Physiology of the vestibulocochlear organ.
5. Examination of the oral cavity and pharynx.
6. Examination of the nose.
7. Examination of the larynx.
8. Examination of the vestibulocochlear organ, including the vestibular organ and the basics of audiology.
9. Examination of the salivary glands.
10. Examination of the soft tissues of the neck.
11. Hypoacusis:
   • Typology, evaluation of the hypoacoustic patient
   • Retention of earwax
   • Otitis externa
   • Acute otitis media
   • Injuries to the temporal bone
   • Exudative otitis media
   • Chronic otitis media - cholesteatoma
   • Otosclerosis
   • Sudden perceptive hypoacusis
   • Chronic perceptive hypoacusis
12. Tinnitus
13. Otalgia
14. Vertigo and balance disorders:
   a) differential diagnosis: differentiation of central and peripheral damages
   b) benign paroxysmal positional vertigo
   c) Meniere's disease
   d) vestibular neuronitis
   e) vestibulocochlear schwannoma
   f) psychogenic balance disorders
15. Facial nerve paralysis
16. Acute and chronic rhinitis
17. Nasal septum deviation
18. Nasal obstruction including:
   a) nasal polyps
19. Acute sinusitis
20. Chronic sinusitis
21. Rhinitis and sinusitis in children
22. Sino- and otogenic intracranial complications
23. Other rare diseases of the nose: sarcoidosis, Wegener's granulomatosis, cystic
fibrosis, rhinoscleroma
24. Acute stomatitis and pharyngitis
25. Recurrent and chronic tonsillitis.
26. Peritonsillar abscess
27. Epiglottitis
28. Laryngitis, tracheitis, bronchitis
29. Retropharyngeal abscess
30. Ludwig’s angina
31. Parapharyngeal abscess
32. Pharyngitis resulting from the chronic gastroesophageal reflux
33 Angioedema
34. Acute viral parotitis
35. Acute bacterial parotitis
36. Chronic and recurrent parotitis
37 Sjogren's syndrome
38. Sialolithiasis
39. Ranula
40. Acute laryngitis
41. Chronic laryngitis
42. Vocal fold nodules
43. Vocal cord polyps
44. Ulcers and contact granulomas of vocal folds
45. Laryngeal papillomas
45. Dysphorias
47. Obstructive sleep apnea
48. Laryngospasm
49. Laryngeal and tracheal stenosis
50. Dysphagia,
51. Gastroesophageal reflux
52 Tumors of the neck:
a) acute lymphadenitis
b) chronic lymphadenitis
c) thyroglossal tract cyst
d) branchial cleft cyst
e) haemangioma.
f) congenital muscular torticollis.
g) metastases to the lymph nodes of the neck.
h) lymphomas.

53. ENT emergencies:
a) epistaxis
b) nasal patency impairment - sudden laryngeal dyspnoea, tracheal intubation, tracheostomy, cricothyrotomy
c) foreign body in the esophagus and the respiratory tract

54. Endoscopic examination methods

55. Injuries in otolaryngology - procedures

56. Functional assessment of the speech organ, the basics of phoniatrics

57 Congenital malformations in otolaryngology.

Books:


Rules binding for the classes held in DEPARTMENT AND CHAIR OF OTOLARYNGOLOGY AND LARYNGOLOGICAL ONCOLOGY OF THE NCU CM

COURSE IN: Otolaryngology
6th YEAR
Faculty of Medicine
CLASS RULES 2015/2016
Type of classes and number of hours:
Seminar: 20 hours
Clinical classes: 40 hours
Hours in total: 60
Credit obtained on the basis of: test examination, 5 ECTS points
Course coordinator: Professor dr hab. Henryk Kazmierczak
Requirements:
The knowledge of anatomy and physiology of the upper respiratory tract, the hearing and
vestibular organ, topographic anatomy of the head and neck.

Objectives of the course (seminar):
Basic knowledge of etiology, symptoms and diagnostic methods, clinical course, methods of clinical and rehabilitation treatment as well as complications of most common diseases of the nose and paranasal sinuses, pharynx, larynx, the hearing and vestibular organ.
Early diagnosis and treatment pertaining to tumours of the head and neck are among the pivotal issues covered. The course also includes malformation problems, conductive and perceptive hearing impairments, tinnitus and balance disorders of various origin. The main cause underlying the content-related selection of seminars is the presentation of essential issues in everyday practice of primary care physicians, of physicians in primary fields of medicine as well as the issues that are essential due to their relevance and practical importance yet that are omitted for a variety of reasons in available handbooks for students (e.g. malformations in otolaryngology, rehabilitation etc.).

Course objectives
Mastering the skills of interviewing patients and obtaining information on medical family history of diseases of the ear, nose and paranasal sinuses, oral cavity and pharynx, larynx, esophagus, trachea and bronchi.
Mastering examination techniques of the ear, nose and paranasal sinuses, oral cavity and pharynx, larynx, esophagus, trachea and bronchi.
Mastering skills to perform basic ENT examination procedures unassisted.
Introduction to the latest methods of endoscopic and microsurgical examinations as well as to methods of function tests of the hearing and balance organ, function tests of the larynx and methods applied for objective assessment of nasal patency.
Introduction to most frequently performed procedures and basic surgical methods, with particular focus on endoscopic methods and microsurgical procedures, including the application of laser radiation.
Introduction to rehabilitation methods pertaining to patients following total pharyngectomy, undergoing hypoacusis rehabilitation and balance disorders.
The scope of self-study material is to be found in field literature.
The scope of material is to be found in primary handbooks of otolaryngology for students.

Class topics:
1. Examination of the oral cavity, pharynx and nose.
2. Examination of the larynx, ear, Eustachian tube.
3. Methods of testing hearing and the vestibular organ
4. Examination of patients, interviewing patients, applying dressings.
5. Participation in ward rounds and discussions on individual cases.
6. Being present at operating rooms and observing surgical procedures either directly or on screens (endoscopic and microsurgical procedures).
7. Managing patients in outpatient clinics.

Credit requirements:
Passing the initial test in anatomy and physiology of the ear, nose, pharynx and larynx; participating in 2-week long module classes (20 hours of seminars and 40 hours of clinical classes), passing a test in examination techniques with a lecturer (assistant professor) coordinating a group of students, passing a theoretical examination – test

The dates and forms of tests:
• an initial test after the date of the test has been agreed upon with a lecturer (assistant professor) coordinating the group in the form of a written test prior to starting classes at the Department. The class representative is obliged to report to the lecturer (assistant professor) at the Department 14 days prior to starting classes in order to agree on the date of the initial test. Failure to obtain a positive result from the initial test prevents a student from participating in otolaryngology classes.
• A test of practical skills during the last class day.

Deadlines for delivering studies, reports, etc.:
not applicable

Making up for classes missed due to excused absences:
Two days and less of the absence, after the reasons of the absence have been explained to the instructor, should be made up for in the manner agreed upon with the lecturer (assistant professor) coordinating a given group of students. Two days and more of the absence, after the reasons of the absence have been explained to the instructor, should be made up for in the manner agreed upon with the lecturer (assistant professor) coordinating a given group of students on classes with another group of students.

Seminars in which the student has not taken part are to be passed with the lecturer (assistant professor) coordinating the seminar.
Unexcused absence requires making up for the entire module.

Form of examination in a given course:

Examination in otolaryngology – test examination.

Specific health and safety regulations as well as other rules binding at a given department:

Health and safety regulations in force in all the departments and wards of the Dr Antoni Jurasz University Hospital in Bydgoszcz. During classes in the operating theatre disposable clothing (gowns, surgical caps, masks, safety footwear) and relevant procedures compliant with the ones valid in operating theatres are obligatory.

PRE-ENTRANCE-(INITIAL)- test in otolaryngology - scope of material and textbooks.

1. External nose, nasal cavity - the structure of the nasal cavity, paranasal sinuses.  
2. The structure of the oral cavity: the vestibule of the mouth (lips, cheeks, gingiva)  
4. Pharynx - the structure of the pharynx, pharyngeal sphincter and levator, nasopharynx, oropharynx, and laryngopharynx, vessels and nerves of the pharynx, palatine tonsil and adenoid tonsil  
5. Parapharyngeal space and retropharyngeal space.  
6. Larynx – anatomical features, the skeleton of the larynx (cartilages), connection of laryngeal cartilages, laryngeal cavity and mucous membrane, the muscles of the larynx and their mechanics, vessels and nerves of the larynx.  
7. Trachea and its branches - the structure of the wall of the trachea, bronchi, main vessels and nerves of the trachea and bronchi.  
8. Esophagus – anatomical features, the structure of the wall of the esophagus, vessels and nerves of the esophagus.  
9. Vestibulocochlear organ

1) The external ear (pinna - the structure of the pinna, the external auditory meatus, vessels and nerves of the external ear).  
2) The middle ear (typanic membrane, ossicles, the mucous membrane of the tympanic membrane, the air spaces, the Eustachian tube, vessels and nerves of the middle ear).  
3) The internal ear (bony labyrinth - vestibule, semicircular canals, cochlea, perilymphatic spaces, membranous labyrinth - the utricle and the semicircular canals, saccule and cochlear duct, microscopic structures of the membranous labyrinth, the walls of the cochlear duct and the organ of Corti, vessels and nerves of the labyrinth).
10. Vestibulocochlear nerve. Facial nerve (branches and anastomoses inside the petrous bone and outside the cranium). Glossopharyngeal nerve – pharyngeal, hypoglossal nerve, the vagus nerve.
11. The central part of the ear and the vestibular organ.
12. Physiology of the nose and paranasal sinuses.
13. Physiology of the salivary glands.
14. Physiology of the oral cavity and pharynx
15. Physiology of the larynx
16. Physiology of the esophagus and trachea.
17. Articulation of sounds, the formation of voice, tone.
18. Physiology of the hearing and vestibular organs.
20. The neurocranium, facial skeleton bones, cranial cavity and cranial fossa (pterygopalatine fossa).
21. Connections of the spine with the cranium, cervical vertebrae.
22. Muscles of the head and neck.
23. The fascia of the neck – intrafascial spaces of the neck. The neck triangles.

Rules binding for the examination in otolaryngology for 6th year students of the Faculty of Medicine
Part I: Introduction
1. The examination is a form of obtaining credits for the course in otolaryngology for 6th year students of the Faculty of Medicine.
2. The Department of Otolaryngology of the NCU CM in Bydgoszcz is responsible for conducting the examination.
3. The examination is conducted in the test form to verify the theoretical knowledge of otolaryngology in the scope stipulated in the course curriculum for students of medicine.
4. The test examination covers 40 questions (single choice test - only ONE answer is correct, with four options provided).
5. The retake examination is conducted in the oral form, and the date is compliant with the study regulations at the NCU.
Part II: Conditions allowing taking the examination
1. The student sits an examination after passing a module in otolaryngology with the lecturer coordinating a given group.
2. The credit MUST be confirmed by means of a relevant entry in the student record book.
3. Failure to meet the aforementioned conditions shall result in not allowing the student to take the examination with all related consequences.*

* A fail, and the need to take the examination on a different set date, providing for the validity of the rules (Part I, Section 5).

Part III: The course of the examination
1. The students enter the examination room within 60 minutes before the test starts.
2. Each student upon entering the examination room must confirm their identity and credits obtained for passing a given module in otolaryngology pursuant to their own student record books with the holder’s photograph and a relevant entry confirming the credit.
3. Persons who do not have a valid credit entry are not allowed to enter the examination room and take the examination (Part II, Section 3 *).
4. After the student’s identity and the credit for passing a module in otolaryngology are confirmed, the student is given an examination sheet with a relevant personal code No.
5. One’s personal code No is to be remembered.
6. Members of the examination board help the students to take their seats in the examination room.
7. After taking their seats, the student is to read the instructions on solving the test and on the manner of marking the selected answers properly. This information and the personal code are provided on the answer sheet (Attachment No 1).
8. Members of the examination board give one test copy to each student: persons with odd personal code Nos are given Version I of the test, and persons with even personal code Nos are given Version II of the test.
9. Persons sitting adjacent to one another cannot get the same version of the test.
10. After test copies are distributed, the chair of the examination board announces the start of the examination.
11. **THE DURATION OF THE TEST EXAMINATION IS 50 MINUTES.**
12. During the examination, except for emergency cases, the students are not allowed to leave the examination room.
13. After the examination has been started, no persons other than members of the examination board are allowed to enter the examination room.
14. During the examination the members of the examination board can be addressed and called only by raising a hand.
15. If the student sitting the examination completes it before the set time limit, this person raises their hand, and then one of the examination board members approaches them and takes the answer sheet, the copy of the test and the student record book. Moving around the examination room on one’s own with the answer sheet or a copy of the test is NOT ALLOWED.
16. After delivering the examination-related documents, the student leaves the examination room.
17. When the time allocated to complete the test is over, the chair of the examination board declares the end of the examination. At this point, any attempts at solving the test are prohibited.
18. Members of the examination board approach the student, and get the examination materials in compliance with Section 15 hereof. Then the student leaves the examination room.

Part IV: Results
6. The minimum number of points required for passing the test examination is specified by the Head of the Department.
7. The calculation of correct answers provided by the student into percentage points shall occur in compliance with the scale given (Attachment No 2).
8. The examination results are announced by presenting a list with the students’ personal code Nos, the number of correct answers and grades at the Department of Otolaryngology on the day following the day of the examination.
9. Two days after the examination the students are given their student record books.

Part V: Breach of the rules
4. Persons who appear after the examination has started will not be allowed to take the examination and will bear the consequences in accordance with the rules (Part II, Section 3 *).
5. The students taking the examination must obey the instructions of the examination board members.
6. The examination should be conducted in a serious atmosphere of academic credibility (this also applies to the relevant dress code binding for the students).
7. The test should be solved on one’s own. Talking to other persons is forbidden.
8. Mobile phones should be turned off so that they cannot be used. Using mobile phones and other communication devices during the examination is forbidden.
9. Eating and drinking beverages during the examination is prohibited.
10. Any notes, notebooks, bags, etc. should be left outside the examination room. The examination board is in no way responsible for personal items and belongings left by the students during the examination outside or in the examination room.
11. During the examination, except for random incidents, the students are not allowed to leave
the examination room.
12. When the examination starts, persons other than members of the examination board cannot enter the examination room.
13. The chair of the examination board, considering the degree of violating the rules and insubordination of the student taking the examination, can order the persons who do not observe provisions of Sections 2, 3, 4, 5, 6, 7, 8 and 9 hereof to stop taking the examination and leave the examination room. This decision shall result in (Part II, Section 3 *) of the Rules.
14. Members of the examination board shall undertake every effort for the examination to be fair and impartial. If, however, the students taking the examination notice behaviours that could lead to false examination results, these persons are kindly asked to immediately inform in writing the Head of the Department of this fact. Personal details of the informants shall remain undisclosed.

Part VI: Technical errors
20. In the case of finding typographical errors preventing from providing correct answers, or content-related comments as to the test questions, the students taking the examination can voice a reservation ONLY during the test examination, which shall be recorded.
21. Reservations are to include the examination question number and a detailed description of content-related comments or typographical errors.
22. Reservations expressed shall be verified by the Department immediately after the examination, but prior to the calculation of results.
23. In the event that the reservation is accepted, the task indicated in the reservation shall be excluded from the calculation results, and this shall pertain to the results of all students taking the examination.

Part VII: Final comments
1. Any disputable issues not considered herein shall be solved by the Head of the Department, and the Rules and Regulations shall be considered.
2. Any questions regarding the examination are to be directed to the Head of the Department in writing via the Department’s office.

No of the student:
Version No:
In each question, please select one correct answer. The answer is to be selected by checking a relevant box in a given question with a pencil – be careful and accurate while checking the box.
Example: (select B as the correct answer).

[ ] a [ ] b [ ] c [ ] D
If the answer is to be changed, the wrong answer is to be erased and the correct one –
checked.
Selecting more than one answer or erasing the wrong answer carelessly shall result in
recognising the answer given as incorrect.
The passport of practical skills in otolaryngology:

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