

MINISTRY OF HEALTH OF UKRAINE
HIGHER STATE EDUCATIONAL ESTABLISHMENT OF UKRAINE
«BUKOVINIAN STATE MEDICAL UNIVERSITY»

"APPROVE"

Vice-rector for scientific and pedagogical work
Associate Professor _____ I.V. Gerush

“25” August 2020

**STUDENT GUIDE
(SYLLABUS)
of studying the discipline
“OTOLARYNGOLOGY”**

Field of knowledge 22 Healthcare
(code and name of the field of knowledge)

Specialty 221 Dentistry
(code and name of the specialty)

Educational degree master
(master, bachelor, junior bachelor)

Educational year 4

Form of study full-time
(full-time, part-time, distance)

Department of children surgery and otolaryngology
(name of the department)

Approved at the methodical session of the department of children surgery and
otolaryngology
"15" June 2020 (Protocol №22).

Head of the Department,
professor

O.B.Bodnar

Approved by the subject methodical commission of discipline of surgical profile
"18" June 2020 (Protocol № 2).

Chairman of the subject methodical
commission, professor

I.Y.Polyansky

1. GENERAL INFORMATION ABOUT SCIENTIFIC AND PEDAGOGICAL WORKERS WHO TEACH THE SUBJECT

Department	
Surname, name of scientific and pedagogical staff, scientific degree, academic status	Plaksivy Oleksandr Hryhorovych - head of the course of otolaryngology, candidate of medical sciences, associate professor, plaksyvyi.olexandr@bsmu.edu.ua Levytska Svitlana Anatoliivna - Professor of the Department, Doctor of Medical Sciences, levitska.svitlana@bsmu.edu.ua Kalutskyi Ihor Vyacheslavovich - Associate Professor, Candidate of Medical Sciences, kalutskyi.ihor@bsmu.edu.ua Sapunkov Oleg Davidovich - Associate Professor, Candidate of Medical Sciences, sapunkov@bsmu.edu.ua Yakovets Karolina Ivanivna - Associate Professor, Candidate of Medical Sciences, jakovets.karolina@bsmu.edu.ua Mazur Olga Oleksandrivna - Assistant Professor, Candidate of Medical Sciences, mazur.olga@bsmu.edu.ua
Web page of the department on the official website of the university	https://www.bsmu.edu.ua/kurs-lor-hvorob/
Department website	http://lor.bsmu.edu.ua/
E-mail	lor@bsmu.edu.ua
Address	
Contact phone	Chernivtsi, street Golovna, 137

2. GENERAL INFORMATION ABOUT THE DISCIPLINE

Status of the discipline	normative
Number of credits	3
Total amount of hours	90
Lectures	10
Practical lessons	30
Individual work	50
Type of final control	final module control

3. DESCRIPTION OF THE DISCIPLINE (ABSTRACT)

"Otolaryngology" - the science of ENT organs - was allocated to an independent discipline. Otolaryngology is an independent discipline not on an anatomical basis, but in connection with the important functions of the interconnected organs that it covers, the prevalence of diseases and specific research methods. ENT organs include such important analyzers as auditory, vestibular, olfactory and gustatory. In the mucous membrane of the upper respiratory tract are mechanized, baro-, thermo- and chemoreceptors, which play an extremely important role in the interaction of the body with the environment. They are closely related to each other and to the organs and systems of the body, and therefore pathological changes in the latter cause not only a reaction in the ENT organs, but also their morbidity.

4. POLICY OF THE SUBJECT

4.1. List of normative documents:

- Regulations on the organization of the educational process (<https://www.bsmu.edu.ua/wp-content/uploads/2020/03/polozhennya-pro-organizacziyu-osvitnogo-proczesu-u-vdnzu-bukovinskij-derzhavnij-medichnij-universitet.pdf>);
- Instructions for assessing the educational activities of BSMU students in the implementation of the European credit transfer system of the educational process (<https://www.bsmu.edu.ua/wp-content/uploads/2020/03/bdmu-instrukcziya-shhodo-oczinyuvannya-%D1%94kts-2014-3.pdf>);
- Regulations on the procedure for reworking missed and uncredited classes (<https://www.bsmu.edu.ua/wp-content/uploads/2019/12/reworks.pdf>);
- Regulations on the appeal of the results of the final control of knowledge of higher education (<https://www.bsmu.edu.ua/wp-content/uploads/2020/07/polozhennya-pro-apelyacziyu-rezultativ-pidsumkovogo-kontrolyu-znan.pdf>);
- Codex of Academic Integrity (https://www.bsmu.edu.ua/wp-content/uploads/2019/12/kodeks_academic_faith.pdf);
- Moral and ethical codex of students (https://www.bsmu.edu.ua/wp-content/uploads/2019/12/ethics_code.docx);
- Regulations on the prevention and detection of academic plagiarism (<https://www.bsmu.edu.ua/wp-content/uploads/2019/12/antiplagiat-1.pdf>);
- Regulations on the procedure and conditions for students to choose elective courses (https://www.bsmu.edu.ua/wp-content/uploads/2020/04/nakaz_polozhennyz_vybirkovi_dyscypliny_2020.pdf);
- Rules of internal labor regulations of the Higher State Educational Institution of Ukraine "Bucovynian State Medical University" (<https://www.bsmu.edu.ua/wp-content/uploads/2020/03/17.1-bdmu-kolektivnij-dogovir-dodatok.doc>).

4.2. Policy on adherence to the principles of academic integrity of higher education students:

- independent performance of educational tasks of current and final controls without the use of external sources of information;
- cheating during control of knowledge is prohibited;
- independent performance of individual tasks and correct registration of references to sources of information in case of borrowing of ideas, statements, information.

4.3. Policy on adherence to the principles and norms of ethics and deontology by higher education students:

- actions in professional and educational situations from the standpoint of academic integrity and professional ethics and deontology;
- compliance with the rules of internal regulations of the university, to be tolerant, friendly and balanced in communication with students and teachers, medical staff of health care institutions;
- awareness of the importance of examples of human behavior in accordance with the norms of academic integrity and medical ethics.

4.4. Attendance policy for higher education students:

- attendance at all training sessions (lectures, practical (seminar) classes, final modular control) is mandatory for the purpose of current and final assessment of knowledge (except for respectable reasons).

4.5. Deadline policy and completion of missed or uncredited classes by higher education students:

- reworks of missed classes are held according to the schedule of missed or uncredited classes and consultations.

5. PRECISIONS AND POST-REQUIREMENTS OF THE EDUCATIONAL DISCIPLINE (INTERDISCIPLINARY RELATIONS)

List of disciplines, on which the study of academic discipline is	List of academic disciplines, for which the basis is laid as a result of
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based	studying the discipline
medical and biological physics	neurology
anatomy and physiology	ophthalmology
microbiology, virology and immunology	dentistry
histology, cytology and embryology	internal diseases
pathophysiology	
internal diseases	
surgery	
pathomorphology	
radiology	
neurology	
ophthalmology	
tuberculosis	

6. PURPOSE AND TASKS OF THE EDUCATIONAL DISCIPLINE:

- 6.1. The purpose of studying the discipline is mastering the methods of diagnosis, treatment and prevention of ENT diseases, especially the most common, the methodology of diagnosis of otolaryngological disease, choice of treatment tactics and emergency care in otolaryngology and determination of etiological factors and pathogenetic mechanisms of major diseases of ENT organs.
- 6.2. The main tasks of studying the discipline are: development of supported methods; the plan of additional inspection at various ENTs is made; evaluation of research results (radiological, CT, MRI, laboratory and instrumental); assessment of the state of health that has taken place; true pathological symptoms and syndromes; mastering the necessary medical manipulations and planning tactics of conservative or surgical treatment of a patient with ENT pathology.

7. COMPETENCIES, THE FORMATION OF WHICH IS CONTRIBUTED BY THE DISCIPLINE:

7.1. Integral competence: be able to solve typical and complex specialized tasks and practical problems in professional health care, or in the learning process, which involves research and / or innovation and is characterized by the complexity and uncertainty of conditions and requirements.

7.2. General competencies:

1. Ability to apply knowledge in practical situations
2. Knowledge and understanding of the subject area and understanding of the profession
3. Ability to self-regulate and lead a healthy lifestyle, the ability to adapt and act in a new situation
4. Ability to choose a communication strategy; ability to work in a team; interpersonal skills
5. Ability to communicate in the native language both orally and in writing; ability to communicate in a second language
6. Skills in the use of information and communication technologies
7. Ability to abstract thinking, analysis and synthesis, the ability to learn and be modernly trained
8. Ability to apply knowledge in practical situations
9. Ability to assess and ensure the quality of work performed;
10. Definiteness and perseverance in terms of tasks and responsibilities
11. Ability to act socially responsibly and public consciousness
12. The desire to preserve the environment

7.3. Professional (special) competencies:

1. Ability to establish a topical and clinical diagnosis of the disease
2. Skills of interviewing and clinical examination of the patient
3. Ability to evaluate the results of laboratory and instrumental research

4. Ability to determine the principles and nature of treatment of diseases
5. Ability to diagnose emergencies
6. Ability to determine the required mode of work and rest in the treatment of diseases
7. Ability to determine the tactics of contingent of persons subject to dispensary supervision
8. Ability to conduct a performance examination
9. Ability to keep medical records

8. RESULTS OF STUDYING THE DISCIPLINE.

As a result of studying the discipline student must:

8.1. Know: clinical anatomy and physiology of ENT organs and modern methods of their research; etiology, pathogenesis, clinic, methods of treatment and prevention of diseases of the nose, paranasal sinuses, pharynx, larynx, outer, middle and inner ear, as well as the complications caused by them; the procedure, methods and techniques of examination of the ENT patient; normal endoscopic picture of the nose, pharynx, larynx and ears, as well as possible typical abnormalities in their endoscopic picture; collect data on patient complaints, medical history, life history; evaluate information on the diagnosis, using a standard procedure based on the results of laboratory, radiological, including CT and MRI and instrumental studies; identify the leading clinical symptom or syndrome and establish the most probable or syndromic diagnosis of the disease; to appoint laboratory and / or instrumental examination of the patient, to carry out differential diagnosis of diseases; to establish a preliminary clinical diagnosis; determine the necessary mode of work and rest in the treatment of the disease; determine the principles and nature of treatment (conservative, operative) disease; to establish the diagnosis; determine the tactics of providing emergency medical care on the basis of a diagnosis of emergency; to be aware of and guided in their activities by civil rights, freedoms and responsibilities, to raise the general cultural level; adhere to the requirements of ethics, bioethics and deontology in their professional activities; to organize the necessary level of individual safety (own and persons cared for) in case of typical dangerous situations in the individual field of activity.

8.2. Be able to: Evaluate information about the diagnosis in the health care facility, its unit, using a standard procedure, using knowledge about the person, ENT organs, based on the results of laboratory, radiological (CT, MRI) and instrumental studies,

In the conditions of the health care institution, its subdivision and among the attached population:

- Be able to identify and record the leading clinical symptom or syndrome by making an informed decision, using preliminary history of the patient, the data of otolaryngological examination of the patient, adhering to the relevant ethical and legal norms.
- Be able to establish the most probable diagnosis of the disease by making an informed decision, by comparing with standards, using previous patient history and patient examination data, based on the leading clinical symptom or syndrome, using knowledge of the person, ENT organs, adhering to relevant ethical and legal norms,.

In the conditions of a health care institution, its subdivision:

- Assign laboratory, X-ray and instrumental examination of the patient by making an informed decision, based on the most probable diagnosis, according to standard schemes, adhering to the relevant ethical and legal norms.
- Carry out differential diagnosis of diseases by making an informed decision, according to a certain algorithm, using the most probable diagnosis, data of laboratory, X-ray and instrumental examination of the patient, knowledge of the person, ENT organs, adhering to relevant ethical and legal norms.
- Establish a preliminary clinical diagnosis by making an informed decision and logical analysis, using the most plausible diagnosis, laboratory, radiological and instrumental examination of the patient, the conclusions of differential diagnosis, knowledge of the person, ENT organs, adhering to relevant ethical and legal norms.

8.3. Demonstrate:

- ability to connect situational problems in practice ;
- ability to use knowledge in the practice of examining the patient;

- ability to diagnose the patient on the basis of complaints, medical history, objective examination;
- ability to examine the patient, manipulations.

9. INFORMATIONAL SCOPE OF THE DISCIPLINE

The study discipline is given 90 hours (3 ECTS credits) - 1 module "Otolaryngology", which consists of four content modules.

Module 1. OTOLARYNGOLOGY.

Content module 1. Clinical anatomy, physiology, research methods of ENT organs.

Content module 2. Ear diseases.

Content module 3. Diseases of the upper respiratory tract.

Content module 4. Emergency care for diseases of the ENT organs.

10. STRUCTURE OF EDUCATIONAL DISCIPLINE

Names of content modules and topics	Amount of hours					
	Total	including			Independent students' work	Individual work
		Classroom	Practicals			
	Lessons					
1	2	3	4	5	6	
Content module 1. Clinical anatomy, physiology, the methods of examination the ENT-organs.						
1. The endoscopic methods of examination of ENT-organs. Clinical anatomy, physiology and the methods of examination of the outer and middle ears.	4	-	2	2		
2. Clinical anatomy, physiology of the inner ear, the methods of examination of acoustic and stato-kinetic analyzers.	6	2	2	2		
3. Clinical anatomy, physiology and the methods of examination of nose, pharynx, larynx, trachea, bronchi, esophagus and paranasal sinuses.	7	-	2	5		
Content module 2. The ear diseases.						
1. The diseases of outer and middle ears. The acute purulent otitis media. The mastoiditis. The antromastoidotomy.	8	1	2	5		
2. The chronic purulent otitis media, labyrinthitis. The sanitizing and hear-improving surgical performances	6	1	2	3		
3. The non-purulent diseases of ear.	5	-	2	3		
Content module 3. Diseases of the upper respiratory airways.						
1. The acute and chronic diseases of nose.	7	1	2	4		
2. The acute and chronic diseases of paranasal sinuses. The rhinogenous orbital and intracranial complications.	8	1	2	5		
3. The acute diseases of pharynx.	7	1	2	4		

4. The chronic diseases of pharynx.	7	1	2	4	
5. The acute and chronic diseases of larynx.	9	2	2	5	
6. The tumors and infectious granuloma of ENT-organs	6	-	2	4	
7. The defense of the history of disease.	2	-	2	-	
Content module 4. An emergency medical care in ENT-diseases					
1. The injuries of the nose, bleeding from the nose. The foreign bodies of ENT-organs, respiratory airways and esophagus	6	-	2	4	
Final module control	2	-	2	-	
TOTAL HOURS	90	10	30	50	

11. THEMATIC PLAN OF LECTURES

№	Name of topic	Amount of hours
1	The methods of examination of acoustic and stato-kinetic analyzers.	2
2	The acute and chronic otitis media. The mastoiditis.	2
3	The diseases of paranasal sinuses.	2
4	The acute and chronic tonsillitis.	2
5	The diseases of larynx. Laryngeal stenosis.	2
	Total	10

12. THEMATIC PLAN OF PRACTICAL (SEMINAR) CLASSES

№	Name of topic	Amount of hours
1.	The endoscopic methods of examination of ENT-organs. Clinical anatomy, physiology and the methods of examination of the outer and middle ears.	2
2.	Clinical anatomy, physiology and the methods of examination of nose, pharynx, larynx, trachea, bronchi, esophagus and paranasal sinuses.	2
3.	Clinical anatomy, physiology of the inner ear, the methods of examination of acoustic and stato-kinetic analyzers.	2
4.	The diseases of outer and middle ears. The acute purulent otitis media. The mastoiditis. The antromastoidotomy. The examining of patient to write the history of disease.	2
5.	The chronic purulent otitis media, labyrinthitis. The sanitizing and hear-improving surgical performances.	2
6.	The non-purulent diseases of ear.	2
7.	The acute and chronic diseases of nose.	2
8.	The acute and chronic diseases of paranasal sinuses. The rhinogenous orbital and intracranial complications.	2

9.	The acute diseases of pharynx.	2
10.	The chronic diseases of pharynx.	2
11.	The acute and chronic diseases of larynx.	2
12.	The defense of the history of disease.	2
13.	The tumors and infectious granuloma of ENT-organs.	2
14.	The injuries of the nose, bleeding from the nose. The foreign bodies of ENT-organs, respiratory airways and esophagus.	2
	The final control of module «Otorhinolaryngology».	2
	Total	30

13. THEMATIC PLAN OF INDIVIDUAL WORK

№	Name of topic	Amount of hours	The type of control
1.	Preparation for practical lessons – theoretical preparation and working through practical skills	38	Control on practical lessons
2.	<i>The autonomous learning of themes excluded from classroom lessons</i>	6	Final control
	Diphtheria of the ENT organs	2	Final control
	The new methods of diagnostic and treatment of sensori-neural hearing loss.	2	Final control
	The Labyrinths.	1	Final control
	The functional diseases of voice apparatus.	1	Final control
3.	Individual work of students	6	Control on practical lessons
	Total	50	

14. LIST OF INDIVIDUAL TASKS

1. Writing the essay «The topography anatomy of the cavum tympani».
2. Writing the essay «The contemporary methods of diagnostics of hearing disturbances».
3. Writing the essay «The deafness and deaf-dumbness. The contemporary aspects of hearing aid».
4. Writing the essay «The using of the medicament with ototoxicity in medical practice».
5. Writing the essay «The cochlear implantation: the main principles, the possibilities, indications, contraindications».
6. Writing the essay «The immune diagnostics, prophylactics and treatment of chronic tonsillitis».
7. Writing the essay «The principles of endoscopic surgery of the nasal cavity and paranasal sinuses».
8. Writing the essay «The diphtheria of ENT-organs: clinics, diagnostics, differential diagnostics».
9. Writing the essay «The mycosis of ENT-organs»
10. Writing the essay «The allergic rhinitis: immune diagnostics, specific and non-specific hyposensibilization».

11. Writing the essay «The tracheotomy: types, indications, the technique of performing, possible complications».
12. Writing the essay «The burns of esophagus: clinics, diagnostics, emergency medical care, step-by-step rehabilitation».
13. Taking part in the working of student ENT-scientific study group.
14. Performing the table of one of the themes of practical lessons.
15. Mastering the method and technique of performing of tracheotomy and conicotomy.
16. Mastering the method and technique of performing of puncture of maxillary sinus.

15. LIST OF THEORETICAL TASKS TO THE FINAL MODULE CONTROL

Substantial module I. Clinical anatomy, physiology, the methods of examination the ENT-organs.

1. The main steps of development of otorhinolaryngology as self-made medical discipline.
2. The history of development of otorhinolaryngology of Ukraine.
3. The history of the department of otorhinolaryngology of the Bukovina State Medical University.
4. The main ways of development of contemporary otorhinolaryngology.
5. The human ENT-organs and analyzers and their functional meaning.
6. The clinical anatomy of the outer ear.
7. The clinical anatomy of the eardrum. The peculiarities of the situation and structure of the eardrum of the young age children.
8. The clinical anatomy of the cavum tympani.
9. The walls and floors of the cavum tympani.
10. The hearing ossicles and muscles of the cavum tympani.
11. The clinical anatomy of the mastoid process. The types of the structures of the mastoid process. The age peculiarities.
12. The clinical anatomy and physiology of Eustachian tube. The peculiarities of it's structure in children.
13. The clinical anatomy of the cochlea of inner ear.
14. The structure of spiral organ. The adequate irritant of acoustic analyzer.
15. The mechanism of sound-conduction (air and bone conduction).
16. The pathways of acoustic analyzer.
17. The theories of perceiving of sounds.
18. The clinical anatomy of the vestibulum of inner ear.
19. The clinical anatomy of semicircular canals of inner ear.
20. The structure of ampullar receptor. The adequate irritants.
21. The structure of the otolithic apparatus. The adequate irritants.
22. The vestibular nuclei and their pathways.
23. Vestibular reflexes.
24. The Evald's laws and the laws of nystagmus reaction.
25. The examination of permeability of Eustachian tubes.
26. The examination of hearing with speech and tuning-forks
27. The tonal threshold and speech audiometry.
28. The differential diagnostics of sound-conducting and sound-perceiving systems.
29. The spontaneous vestibular disturbances.
30. The methods of examination of ampullar receptor (caloric, rotatory, pressor tests).
31. The examination of otolithic function.
32. The clinical anatomy of outer nose.
33. The clinical anatomy of nasal cavity.
34. The clinical anatomy of the lateral wall of nose.
35. The structure of the nasal septum.
36. The blood supply and innervation of the nasal cavity.
37. The age peculiarities of the development of paranasal sinuses.

38. The clinical meaning of the paranasal sinuses. The clinical anatomy of maxillary sinus.
39. The clinical anatomy of frontal sinus.
40. The clinical anatomy of ethmoid sinus
41. The clinical anatomy of sphenoid sinus.
42. The clinical physiology of nasal cavity and paranasal sinuses.
43. The meaning of the nasal breathing for the development of child's organism. The methods of examination of nose and paranasal sinuses.
44. Clinical anatomy of pharynx, its parts.
45. The anatomy of pharyngeal lymphoid ring. The age peculiarities of the lymphoid tissue of pharynx.
46. The structure of palatine tonsils, blood supply, innervations.
47. The physiology of pharyngeal lymphoid ring.
48. The methods of examination of pharynx.
49. The topography of larynx.
50. The cartilages and ligaments of larynx.
51. The muscles of larynx.
52. The innervations of larynx.
53. The clinical anatomy of cavity of larynx.
54. The physiological functions of larynx.
55. The methods of examinations of larynx in children and adults.
56. The anatomy of esophagus: topography, walls, places of physiological narrowing.

Substantial module 2. The ear diseases.

57. The hematoma and perichondritis of the pinna.
58. The wax in the ear, clinics, methods of treatment.
59. The otitis externa: types, etiology, clinics, treatment.
60. The acute purulent otitis media. Etiology, pathogenesis, clinics.
61. The peculiarities of the clinical course of acute purulent otitis media in young age children.
62. The peculiarities of the clinical course of acute purulent otitis media in infectious diseases: flu, scarlet fever, measles, tuberculosis.
63. The treatment of the acute purulent otitis media. The transaction of the treatment of children with acute purulent otitis media.
64. The treatment of period before perforation of acute purulent otitis media. Indications and technique of myringotomy.
65. The acute mastoiditis: the definition of disease, clinics, diagnostics, treatment. Antromastoidotomy.
66. Atypical forms of mastoiditis.
67. The complications of acute purulent otitis media.
68. The chronic purulent inflammation of middle ear: the obligatory symptoms, classification.
69. The chronic tubo-tympanic suppuration, clinics, methods of treatment.
70. The chronic attico-antral disease. Cholesteatoma. Diagnostics, clinics, treatment.
71. the differential diagnosis of tubo-tympanic suppuration and attico-antral disease.
72. The conservative treatment of chronic purulent otitis media. The transaction of the treatment of children with chronic purulent otitis media.
73. The types of surgical performances in case of chronic purulent otitis media.
74. The labyrinthitis: forms, clinics, treatment.
75. The pathways and steps of spreading the infection into the cranium.
76. The otogenic abscesses of the brain: clinics, treatment.
77. The trombosis of cavernous sinus and otogenic sepsis: clinics, treatment.
78. Otogenic meningitis: clinics and treatment.
79. Ménière's disease: etiology, pathogenesis, clinics.
80. The treatment of Ménière's disease. The methods of treatment of vestibular dysfunction.
81. The sensori-neural hearing loss: reasons and clinics.

82. The treatment of the acute and chronic sensori-neural hearing loss. The transaction of the treatment of children with sensori-neural hearing loss.
83. Otosclerosis: pathogenesis, clinics, the contemporary methods of surgical treatment.

Substantial module 3. Diseases of the upper respiratory airways

85. Boil in the nose, clinics, treatment.
86. The acute rhinitis: etiology, pathogenesis, clinics and treatment.
87. The acute rhinitis in newborns.
88. The chronic rhinitis: etiology, pathogenesis, pathological anatomy, classification.
89. The chronic catarrhal rhinitis: clinics, differential diagnosis, treatment.
90. The chronic hypertrophic rhinitis: clinics, differential diagnosis, treatment. The transaction of the treatment of children with chronic rhinitis.
91. The chronic atrophic rhinitis: clinics, differential diagnosis, treatment.
92. Ozaena: clinics, differential diagnosis, the principles of treatment.
93. Vasomotor rhinitis, allergic form: etiology, clinics, treatment.
94. Vasomotor rhinitis, neurovegetative form: etiology, clinics, treatment.
95. Hematoma and abscess of the nasal septum: clinics, treatment.
96. Nasal septum deviation, synechia and atresia of the nasal cavity; clinics, treatment.
97. Classification of the acute and chronic sinusitis.
98. The common and local symptoms of the acute and chronic sinusitis.
99. The acute and chronic ethmoiditis: clinics, treatment.
100. The acute maxillary sinusitis: clinics, treatment.
101. The chronic maxillary sinusitis: forms, clinics, treatment.
102. The chronic odontogenous maxillary sinusitis: clinics, diagnostics, treatment.
103. The acute and chronic frontitis: clinics, treatment.
104. The acute and chronic sphenoiditis: clinics, treatment.
105. The chronic polyposis sinusitis: etiology, clinics, complex treatment.
106. Rhinogenous intracranial complications: the ways of spreading of infection, the types of complications, principles of treatment.
107. Rhinogenous orbital complications: the ways of spreading of infection, the types of complications, principles of treatment
108. The classification of tonsillitis.
109. The catarrhal angina: clinics, treatment.
110. The follicular angina: clinics, treatment.
111. The lacunar angina: clinics, differential diagnosis, treatment.
112. The Vincent's angina: etiology, clinics, treatment.
113. The secondary anginas.
114. The angina in mononucleosis: etiology, clinics, treatment.
115. The diphtheria of the pharynx: clinics, differential diagnosis.
116. Paratonsillitis and paratonsillar abscess: etiology, classification, treatment.
117. The acute tonsilogenous sepsis: clinics, treatment.
118. Retropharyngeal abscess in children: clinics, treatment.
119. Adenoids: clinics, treatment.
120. The hypertrophy of palatine tonsils: clinics, treatment.
121. The chronic tonsillitis: etiology, pathogenesis, classification.
122. The local symptoms of chronic tonsillitis.
123. The types of decompensation of chronic tonsillitis, the formulating of the diagnosis.
124. The conservative treatment of chronic tonsillitis. The transaction of the treatment of children with chronic tonsillitis.
125. The surgical treatment of chronic tonsillitis.
126. The leptotrichosis: clinics, treatment.
127. The acute pharyngitis: etiology, clinics, treatment.
128. The chronic pharyngitis: etiology, forms, clinics, treatment.
129. The acute catarrhal laryngitis: etiology, clinics, treatment.

130. The laryngeal angina: clinics, treatment.
131. The phlegmonous laryngitis: clinics, treatment.
132. The abscess of epiglottis: clinics, treatment.
133. The perichondritis of larynx: reasons, clinics, treatment.
134. The acute stenosing laryngotracheobronchitis in children: etiology, pathogenesis, clinics.
135. The acute stenosing laryngotracheobronchitis in children. Intensive medical care.
136. The chronic laryngitis: etiology, forms, clinics.
137. Paralyzes of larynx: reasons, finding in laryngoscopy, principles of treatment.
138. The uvenile angiofibroma of nasopharynx: clinics, diagnostics, the methods of removing.
139. The malignant tumors of nose and paranasal sinuses: diagnostics, treatment.
140. The malignant tumors of pharynx: localization, clinics, methods of treatment.
141. The non-malignant tumors of larynx.
142. The papillomatosis of larynx in children and adults. The transaction of the treatment of children with papillomatosis of larynx.
143. The pretumors of larynx.
144. The cancer of larynx: etiology, localization, clinics, stages of disease.
145. The principles of early diagnostics of cancer of tumors.
146. Treatment of the cancer of larynx.
147. The surgical treatment of cancer of larynx, its types, indications.
148. Scleroma of upper respiratory airways: etiology, pathological anatomy, stages, treatment.
149. Tuberculosis of the upper respiratory airways: clinical symptoms, differential diagnosis.
150. Syphilis of the upper respiratory airways: the peculiarities of clinical symptoms, differential diagnosis.
151. The meaning of the prophylactic inspections and clinical examinations in prophylactic of the ENT-diseases and their complications.

Substantial module 4. An emergency medical care in ENT-diseases

152. The foreign bodies of ear, methods of their removing.
153. Bleeding from the ear.
154. Injuries of the ear, the trauma of eardrum.
155. The foreign bodies of nose, methods of their removing. Rhinolith.
156. Injuries of nose and paranasal sinuses: classification, clinics, treatment.
157. Bleeding from the nose: reasons, symptoms, methods of treatment.
158. The foreign bodies of pharynx: clinics, treatment.
159. The stenosis of larynx: the definition, reasons of acute and chronic stenosis.
160. The stages of laryngeal stenosis, the principles of treatment (conservative, long-termed intubation, tracheotomy).
161. Tracheotomy: indications, forms, technique of performing.
162. The foreign bodies of esophagus: clinics, diagnostics, methods of removing.
163. The complications of foreign bodies of esophagus: clinics, tactics of treatment.
164. The burns of edophagus: reasons, pathologic anatomy, clinical stages.
165. The first medical aid in case of burns of esophagus.
166. The foreign bodies of respiratory airways: the reasons of aspiration, anamnesis, the characteristic of foreign bodies.
167. The foreign bodies of larynx: clinics, methods of removing in children and adults.
168. The foreign bodies of trachea: clinics, methods of removing.
169. The foreign bodies of bronchi: the types of stenosis, clinics, methods of removing.

16. LIST OF PRACTICAL SKILLS AND TASKS TO THE FINAL MODULE CONTROL

The duration of one practical lesson is at least 4 hours. According to the method of organization, they are clinical, aimed at controlling the assimilation of theoretical material and the formation of practical skills, as well as the ability to analyze and apply the acquired knowledge to solve practical problems.

1. To know how to use the head mirror.
2. To choose the right instruments for examination of ENT-organs and to obtain skills of next methods:
 - anterior rhinoscopy;
 - posterior rhinoscopy;
 - oropharyngoscopy;
 - indirect laryngoscopy;
 - otoscopy.
3. To be able to interpret the results of hearing examination:
 - hearing examination with help of whisper and ordinary speech;
 - hearing examination with help of tuning forks;
 - the main types of tone threshold audiogram;
 - tympanogram by Jerger.
4. To be able to interpret the results of examination of stato-kinetic analyzer:
 - examination of spontaneous vestibular disturbances;
 - pressor test.
5. To choose the right instruments and to perform next manipulations:
 - cleaning of outer meatus and insertion the wick drain into the meatus;
 - removing the wax and foreign body from the ear using syringing;
 - putting gauze bandage and compress on the ear;
 - pneumomassage of the eardrum;
 - politzerization of Eustachian tubes;
 - insertion of medicaments into the ear;
 - anterior packing of the nose;
 - posterior packing of the nose (to know the principles);
 - putting the sling bandage;
 - removing the foreign bodies from the nasal cavity;
 - taking smears from the nasal cavity and pharynx;
 - smearing of mucous membrane of nasal cavity and pharynx;
 - performing the first surgical aids of the wounds of ENT-organs;
 - performing the redressment of the nasal bones;
 - syringing of the nasal cavity by Proetz;
 - syringing of the lacunas of palatine tonsils;
 - insertion medicaments into nose, pharynx and larynx;
 - conicotomy, tracheotomy (to know the principles);
 - to cure the patient with tracheotomy.
6. To be able to evaluate the main types of results of X-rays examination of ENT-organs:
 - temporal bone by Schuller;
 - anterior and lateral X-ray examination of paranasal sinuses;
 - lateral X-ray examination of nasal bones;
 - ethmoidal sinus by Fastovsky;
 - ordinary and contrast lateral X-ray examination of neck;
 - CT and MRI ENT-organs.

17. METHODS AND FORMS OF IMPLEMENTATION OF THE CONTROL

During the study of the discipline, all types of student activities are subject to control, both current (at each lesson) and final (during control activities).

Modular control is a diagnosis of the student's assimilation of the module material (credit). The semester ends with a final module control.

The initial control of knowledge is carried out during the first practical lesson by written tests on the propaedeutic part of the thematic plan:

- * methods of hearing research,
- * methods of research of the vestibular apparatus,
- * clinical anatomy of the nose and paranasal sinuses,
- * clinical anatomy of the pharynx and esophagus,
- * clinical anatomy of the larynx and trachea,
- * clinical anatomy of the ear.

Current control of students' knowledge is carried out during practical classes and includes testing of knowledge of theoretical material and control of mastering practical skills, which are provided by methodical development of classes on relevant topics. Testing of students' knowledge is carried out with the help of oral face-to-face interviews, solving test problems of varying severity, solving typical and atypical situational problems, as well as during checking the correctness of laboratory research tasks.

Intermediate control of students' knowledge is carried out during the final tests during the last lesson of the content module.

Final control of students' knowledge is carried out at the last practical lesson after completion of the module in the form of final modular control. Students find out the knowledge of theoretical material (according to the list of questions). In addition, students perform practical work that is attached to the ticket and solve situational problems, which is also taken into account when assessing their knowledge.

Final modular control (PMC) is carried out upon its completion.

Students who have attended all the classes provided by the curriculum in the discipline and received positive grades ("5", "4", "3"), as well as during the study of the module scored the number of points not less than minimal.

A student who, for valid or non-valid reasons, has missed classes is allowed to work off academic arrears until a certain deadline.

The final control of mastering the module includes test control with the solution of 15 test tasks. Each correct answer to the test task is evaluated in 1 point. The maximum number of points that a student can get as a result of the test control - 15 points. The next stage of the final control involves the delivery of practical skills, for which the student receives a maximum of 10 points. Further compilation of the final control of module acquisition consists in written answers to two questions (one - on anatomy, physiology and methods of ENT research, the second - on a clinical topic), as well as solving a clinical situational problem. After checking the completed theoretical tasks, the final control is supplemented by oral answers of the student in the form of a dialogue with the teacher. The maximum number of points that a student can get for the answer to one theoretical question is 20 points, for the correct solution of a clinical situational problem - 15 points.

The final module control is credited to the student if he scored at least 50 points out of 80 points. Thus, the ratio between the results of the assessment of current learning activities and the final module control is 60% to 40%.

18. EVALUATION OF THE LEVEL OF STUDENT TRAINING IN THE DISCIPLINE

Assessment of current educational activities, module control and discipline in general is carried out in accordance with the "Instructions for assessing the educational activities of students of Bucovynian State Medical University in the implementation of the European credit transfer system of educational process" (approved by the Academic Council of May 29, 2014, protocol 9).

During the assessment of mastering each topic, the student is graded on a 4-point (traditional) scale and on a 200-point scale using the accepted and approved assessment criteria for the relevant discipline. This takes into account all types of work provided by the methodological development for the study of the topic.

The student must receive a grade on each topic. Grades on the traditional scale are converted into points depending on the number of topics.

The weight of each topic within one module in points should be the same. Forms of assessment of current educational activities should be standardized and include control of theoretical and practical training. The final score for the current activity is recognized as the arithmetic sum of the scores for each lesson. The maximum number of points that can be obtained by the applicant for the

current activity during the study of the discipline is calculated by multiplying the number of points corresponding to the grade "5" by the number of topics with added points for the individual task, but not more than 200 points.

Distribution of points for current activities

Number of module number of study hours / number of credits ECTS	Number of content modules, their numbers	Number of practical classes	Conversion into point of the traditional scale							Minimum score
			Traditional scale				Scores for individual task			
			«5»	«4»	«3»	«2»				
Модуль 1 90 / 3,0	4 (№№ 1-4)	14	8	7	6	0	8	4	0	84

The maximum number of points that a student can score for the current activity in the study of the module is calculated by multiplying the number of points corresponding to the grade "5" by the number of topics in the module with added points for individual student task and is 120 points (for example: 8 points * 14 topics = 112 points +8 points for an individual student task = 120 points).

The minimum number of points that a student can score when studying the module for admission to the final module control is calculated by multiplying the number of points corresponding to the grade "3" by the number of topics in the module and is 84 points (for example: 6 points * 14 topics = 84 points).

19. RECOMMENDED LITERATURE

19.1 Basic

1. Hall & Colamn's diseases of the nose, throat and ear, and head and neck: a handbook for students and practitioners / Bernard H. Colman. – 14th ed., 1992. – P. 1- 17.
2. Diseases of ear, nose and throat. P.L.Dhingra. – B.I.Churchill Livingstone Pvt Ltd., New Delhi, 1998. – 435 p.

19.2. Auxillary

1. Northern, Jerry L. Hearing in children. Williams & Wilkins, Baltimore, USA, 1983. – 391 p.
2. Atlas of head and neck pathology / Bruce M.Wenig. – W.B.Saunders Company, USA, 1993. – 412 p.
3. Carl E.Silver, John S.Rubin Atlas of Head and Neck Surgery. – Churchil Livingstone, New York, 1999. – 348 p.

19.3 Information resources

1. Сервер дистанційного навчання БДМУ – <http://moodle.bsmu.edu.ua/>
2. Сайт курсу отоларингології – <http://lor.bsmu.edu.ua/>
3. Сайт МОЗ України – <http://www.moz.gov.ua>
4. <http://medlib.bsmu.edu.ua>

20. COMPILERS OF THE STUDENT HANDBOOK (SYLLABUS)

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