

**AZERBAIJAN MEDICAL  
UNIVERSITY**

**SYLLABUS OF SUBJECT  
OF ONCOLOGY**

**CONFIRMED BY**

Head of Oncology Department,  
academician A.T. Amiraslanov

Signature \_\_\_\_\_

for students of  
Stomatology faculty

12.09.2018

<b>CODE OF THE SUBJECT:</b>	070104
<b>NAME OF SUBJECT:</b>	Oncology
<b>FORM OF TEACHING THE SUBJECT:</b>	visual
<b>TYPE OF SUBJECT:</b>	compulsory consistent subject of the specialty
<b>TRAINING LOAD (HOURS) TOTAL:</b>	24
<b>SUBJECT TEACHING YEAR:</b>	2018-2019
<b>SEMESTRY OF TEACHING</b>	XI
<b>NUMBER OF CREDITS (1 credit every 30 hours)</b>	2 credits
<b>LANGUAGE OS SUBJECT:</b>	Azerbaijan, russian, english
<b>TUITORS:</b>	prof. N.M. Amiraliyev ass. prof. N.İ. Mehdiyeva ass. prof. Y.M. Hətəmov ass. S.S. Mammadova ass. V.R. İsmail ass. T.V. Mammadova
<b>PHONE NUMBERS OF DEPARTMENT:</b>	(012) 541-59-77; 78
<b>E-MAIL OF DEPARTMENT:</b>	<a href="mailto:department_oncology@amu.edu.az">department_oncology@amu.edu.az</a>

**REQUIRED TEXTBOOKS AND TUTORIALS:**

*Main:*

1. Namiq Əmirəliyev, Azər Əmiraslanov. Baş-boyun şişləri (2012). Dərslik
2. Ə.T. Əmiralanov, A.Y. Qaziyev. Onkologiya (2010). Dərslik.

*Additionally:*

1. А.И. Пачес. Опухоли головы и шеи. Клиническое руководство. 2013.
2. Романчишен. Хирургия щитовидной и околощитовидных желез (2009).
3. Н.М. Амралиев. Рак гортани (2002)

4. Федеев И.М. и др. Злокачественные опухоли челюстно-лицевой области (2000). Учебное пособие.
5. Stell and Maran's O. Textbook of head and neck surgery and oncology (2012). Textbook.
6. Jatin Shah. Head and Neck Surgery and Oncology (2012) Handbook.

**Prerequisite subject:** normal histology, pathological anatomy, pathological physiology, radiology diagnostics and therapy, propaedeutics of internal diseases, general surgery, pharmacology, operative surgery, surgical diseases (IV course), internal diseases (IV course).

### **I. The description and purpose of the subject:**

(Brief information about the subject, subjects (directly related / appropriate), subjects of the course teaching, what students know, what they will achieve and what habits they will learn by studying this subject)

Brief description of the course: Biological properties, morphology, nomenclature and classification of tumors of the head and neck. Learning factors of epidemiology of malignant tumors of the head and neck area is the occurrence of the spread of oncological illnesses and malignant tumors among the entire population or its separate group and population in a given area. Study of primary and endemic prophylaxis and secondary prevention of malignant tumors of the head and neck area. Study of etiology and pathogenesis of malignant tumors of the neck, investigation of various congenital factors, study of stages such as involvement of the congenic, promotions and tumor progression, dysplasia, oblique and facultative swelling diseases, early cancer analysis, dwelling residency and immunity. Study and development of various diagnostic methods of investigation malignant tumors of the head and neck. The treatment of malignant tumors of the head and neck with surgical, radiation, chemotherapy and combination methods, modification of biological reactions and other treatment methods of tumors. Study, examination and treatment of various localized pleated and malignant tumors of the head and neck on special oncology. Organization of oncological service in Azerbaijan. Development of deontology in oncology. Implementation of medical, vocational, social rehabilitation oncology.

Purpose of the course: It is a science that studies the etiology, growth, development, spreading law, prevention, diagnostics and treatment of oncology tumors.

### **Subject calendar:**

Week	Title and brief overview	Lecture	Curatio n	Hour	Date
* I week	<p><b>Problems of modern oncology</b></p> <p>Brief overview: Brief history of development of head and neck oncology, basic principles of tumor classification (localization, clinical course, tumor growth type, tissue type, degree of</p>	2 hour	-	2 hour	

	<p>differentiation, according to TNM), carcinogenesis (carcinogenic factors, genetic aspects and biological mechanisms of carcinogenesis, epidemiology (descriptive and analytical) and prevention of malignant tumors (primary, secondary), dispensary and clinical groups of oncological patients (Ia, Ib, II, Iia, II, IV)</p> <p>Theoretical materials, modern views, interactive form are discussed in the lecture.</p> <p>Reading materials (book title, authors):</p> <ol style="list-style-type: none"> <li>1. Abeloff's Clinic Oncology, 5th Edition (2014)</li> <li>2 . Stell and Maran's O. Textbook of head and neck surgery and oncology (2012). Textbook.</li> <li>3.Jatin Shah. Head and Neck Surgery and Oncology (2012) Handbook.</li> </ol>				
I curat ionda y	<p><b>Head and neck skin cancer</b></p> <p>Brief overview: Disease and death. Etiology and pathogenesis. Precancerous diseases - pigmented xeroderma, delayed beam ulcers, tuberculosis, skin horn and so on. Histological forms – basal cell, squamous cell. Regional and distant metastasis. Surface, infiltrative-spreading, papillary. Diagnostics, differential diagnosis - fungal diseases of the skin, dermatitis, eczema. TNM classification. Treatment of primary tumor and regional metastases. Radiotherapy, surgical, cryogen, chemotherapy. Combined treatment. Long-term outcomes - 5-year survival and disease-free survival.</p> <p>Reading materials (book title, authors):</p> <ol style="list-style-type: none"> <li>1. Abeloff's Clinic Oncology, 5th Edition (2014)</li> <li>2 . Stell and Maran's O. Textbook of head and neck surgery and oncology (2012). Textbook.</li> <li>3.Jatin Shah. Head and Neck Surgery and Oncology (2012) Handbook.</li> </ol>		2hour	2 hour	
II week	<p><b>Skin and oral cavity cancer</b></p> <p>Brief overview:</p>	2 hour		2 hour	

<p>II curation day</p>	<p>Epidemiology of skin cancer (squamous cell and basal cell carcinoma), risk factors (ultraviolet and ionizing radiation, occupational injuries, scar tissue of various origins, immunosuppression), tumors (keratosis, dermatosis, Boehman's disease, other diseases) histological and TNM classification (clinical, morphological, USM, radiological) treatment (radiation, surgery, cryotherapy, laser surgery, photodynamic therapy. Epidemiology of oral cancer, risk factors (smoking, alcohol, industrial losses, trauma, the process of galvanism in the oral cavity, human papilloma virus), precancerous diseases - obligate (Bowen's disease, Keys arithroplasia) - optional (leukoplakia, erythema, papillomatosis, erythema) erosive ulcer and hyperkeratotic forms of flat iron, post-radiation stomatitis), international histological classification, clinical classification of TNM.</p> <p>Theoretical materials, modern views, interactive form are discussed in the lecture.</p> <p><b>Malignant melanoma of the head and neck skin</b></p> <p>Brief overview: Epidemiology of skin melanoma, risk factors (exogenous, ultraviolet rays, mechanical trauma of nevi, congenital radiation, endogenous-genetic, hereditary, endocrine and immunological disorders), International histological classification, nevi, melanocytes. Dubrey melanosis, dysplastic nevus, border and blue nevus, congenital giant pigmented nevus, Halo nevus, TNM classification, clinical course (horizontal and vertical development phase) and its clinical forms (superficial, nodular, malignant lentigo melanoma, acne).</p> <p>Diagnosis (ABCDE and Glazgov clinical test system thermography, USM, urinary melanuria, dermatoscopy, CT, MRI, PET, morphology) and treatment (surgery, radiation, chemotherapy, immunotherapy, prognosis).</p> <p>Reading materials (book title, authors): 1. Abeloff's Clinic Oncology, 5th Edition (2014) 2 . Stell and Maran's O. Textbook of head</p>		<p>2 hour</p>	<p>2 hour</p>	
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	<p>and neck surgery and oncology (2012). Textbook.</p> <p>3.Jatin Shah. Head and Neck Surgery and Oncology (2012) Handbook.</p>				
III week	<p><b>The tumors of the thyroid and larynx. Head and neck extra-organ tumors</b></p> <p>Brief overview: Epidemiology of thyroid cancer, risk factors (iodine deficiency, ionizing radiation, hereditary factor, sexual factor, hormonal factor), tumors (nodular ur, chronic thyroiditis, thyroid adenoma, toxic ur), international histological classification (epithelial tumor) epithelial tumors, mixed tumors, secondary tumors, unclassified tumors, vitreous lesions), clinical classification of TNM, metastasis (lymphogenic and hematogenous). Epidemiology of laryngeal cancer, risk factors (smoking, alcohol, occupational factors, human papilloma virus), tumors (papilloma, paxidermia, hysteratosis, leukoplakia, leukokeratosis, etc.), international histological classification (epithelial tumors, lymphoid tumors, soft tissue tumors). tissue tumors, tumors of bone and cartilage tissue, tumors of the melanogenic system, secondary tumors), TNM classification.</p> <p><b>Oral cavity cancer: epidemiology, etiology, prophylactics, pathological-anatomic classification</b></p> <p>Brief overview: Epidemiology. Disease and death. Precancerous diseases - Bouen's disease, limited hyperkeratosis, Manganotti stomatitis, verrucous leukoplagia, ceratoacantoma, papilloma, red pillow, postradiation stomatitis..</p> <p>Reading materials (book title, authors): 1. Abeloff's Clinic Oncology, 5th Edition (2014) 2 . Stell and Maran's O. Textbook of head and neck surgery and oncology (2012). Textbook. 3.Jatin Shah. Head and Neck Surgery and Oncology (2012) Handbook.</p>	2 hour		2 hour	
III Curation days			2hour	2 hour	
	<b>Oral cavity cancer: clinic, diagnosis and</b>				

<p>IV curation day</p>	<p><b>treatment</b></p> <p>Brief overview: Diagnostics, differential diagnosis. Treatment of primary tumor and regional metastases. Radiotherapy, surgical, cryogen, chemotherapy. Combined treatment. Long-term outcomes - 5-year survival and disease-free survival.</p> <p>Reading materials (book title, authors): 1. Abeloff's Clinic Oncology, 5th Edition (2014) 2 . Stell and Maran's O. Textbook of head and neck surgery and oncology (2012). Textbook. 3.Jatin Shah. Head and Neck Surgery and Oncology (2012) Handbook.</p>		2 hour	2 hour	
<p>V curation day</p>	<p><b>Lip cancer</b></p> <p>Briew overview: Epidemiology and risk factors of lower lip cancer (meteorological, viral infections, etc.), tumors - obligate (Bowen's disease, manganotic cheilitis), facultative (leukoplakia, keratocanthoma, cutaneous horn, papilloma cheilitis), histological and TNM classification, clinic, diagnosis (clinical, radiological, morphological), differential diagnosis (herpetic cheilitis, syphilitic), treatment (radiation, surgery, cryodestruction, photodynamic therapy), prognosis. During the classes, patient discussions are held on the topic, algorithms for examination and treatment are developed, practical skills on the topic are demonstrated, and conditions are created for students to work freely.</p> <p>Reading materials (book title, authors): 1. Abeloff's Clinic Oncology, 5th Edition (2014) 2 . Stell and Maran's O. Textbook of head and neck surgery and oncology (2012). Textbook. 3.Jatin Shah. Head and Neck Surgery and Oncology (2012) Handbook.</p>		2 hour	2 hour	
<p>VI</p>	<p><b>Malignant tumors of upper and low jaw</b></p> <p>Brief overview:</p>		2 hour	2 hour	

<p>curation day</p>	<p>Epidemiology of malignant tumors of the jaw, risk factors (ionizing radiation, trauma, benign tumors and tumor-like derivatives, chronic inflammatory processes), international histological classification (odontogenic, bone tumors, tumor-like processes, benign tumors, benign tumors). ), TNM clinical classification, clinic (central and peripheral cancer), diagnosis (clinical, radiological, morphological), treatment (surgical, combined, complex). Epidemiology of malignant tumors of the collarbone, risk factors (smoking, industrial injuries, chronic inflammatory processes, trauma, viruses), international histological and clinical classification of TNM, clinic (early, developmental and late period), diagnosis (clinical, endoscopic, radiological, morphological) , differential diagnosis (chronic hemorrhoids, osteomyelitis, sarcoma), treatment (surgical, radiation, chemical-radiation, combined, complex). During the classes, patient discussions are held on the topic, algorithms for examination and treatment are established, relevant skills are demonstrated, and conditions are created for students to work freely.</p> <p>Reading materials (book title, authors): 1. Abeloff's Clinic Oncology, 5th Edition (2014) 2 . Stell and Maran's O. Textbook of head and neck surgery and oncology (2012). Textbook. 3.Jatin Shah. Head and Neck Surgery and Oncology (2012) Handbook.</p>				
<p>VII curation day</p>	<p><b>Malignant tumors of the salivary glands</b></p> <p>Brief overview: Epidemiology of salivary gland tumors, risk factors (environmental factors, smoking, occupational factor, food factor, viruses), international histological and clinical TNM classification, clinic, diagnosis (clinical examination, cytological examination, sialography, USM, CT, MRI, immunohistochemical) , diagnosis), treatment (surgical, radiation, combined), prognosis During the classes, patient discussions are held on the topic, algorithms for examination and treatment are developed,</p>		<p>2 hour</p>	<p>2 hour</p>	

	<p>practical skills on the topic are demonstrated, and conditions are created for students to work freely.</p> <p>Reading materials (book title, authors):  1. Abeloff's Clinic Oncology, 5th Edition (2014)  2 . Stell and Maran's O. Textbook of head and neck surgery and oncology (2012). Textbook.  3.Jatin Shah. Head and Neck Surgery and Oncology (2012) Handbook.</p>				
VIII curation day	<p><b>Larynx cancer: epidemiology, etiology, prevention, pathological and anatomical characteristic, histological and clinical classification</b></p> <p>Brief overview:  Clinic of laryngeal cancer (depending on the location of the tumor in the vestibular, garden and subcutaneous departments), diagnosis (clinical and endoscopic examination, CT, MRI, USM, morphological examination), treatment (surgery, radiation, endoscopic laser, photodynamic therapy, combined) prognosis of rehabilitation (conservative and invasive methods of rehabilitation of vocal function after removal of the larynx).  During the classes, patient discussions are held on the topic, algorithms for examination and treatment are developed, practical skills on the topic are demonstrated, and conditions are created for students to work freely.</p> <p>Reading materials (book title, authors):  1. Abeloff's Clinic Oncology, 5th Edition (2014)  2 . Stell and Maran's O. Textbook of head and neck surgery and oncology (2012). Textbook.  3.Jatin Shah. Head and Neck Surgery and Oncology (2012) Handbook.</p>		2 hour	2 hour	
IX curation day	<p><b>Larynx cancer: Clinic, diagnosis and treatment</b></p> <p>Brief overview:  Epidemiology of thyroid cancer, risk factors (iodine deficiency, ionizing radiation, hereditary factor, sexual factor, hormonal factor), tumors (nodular ur, chronic</p>		2 hour	2 hour	



	<p>thyroiditis, thyroid adenoma, toxic ur), international histological classification (epithelial tumor) epithelial tumors, mixed tumors, secondary tumors, unclassified tumors, vitreous lesions), clinical classification of TNM, metastasis (lymphogenic and hematogenous). During the classes, patient discussions are held on the topic, algorithms for examination and treatment are developed, practical skills on the topic are demonstrated, and conditions are created for students to work freely.</p> <p>Reading materials (book title, authors): 1. Abelloff's Clinic Oncology, 5th Edition (2014) 2 . Stell and Maran's O. Textbook of head and neck surgery and oncology (2012). Textbook. 3.Jatin Shah. Head and Neck Surgery and Oncology (2012) Handbook.</p>				
X curation day	<p><b>Thyroid cancer: epidemiology, etiology, prevention, pathological and anatomical characteristic, histological and clinical classification</b></p> <p>Brief overview: Epidemiological features in Azerbaijan. Disease and death. Histology classification. Diagnostics. De Kerven, Hashimoto, Ridel tireodites. Classification of TNM. During the classes, patient discussions are held on the topic, algorithms for examination and treatment are developed, practical skills on the topic are demonstrated, and conditions are created for students to work freely.</p> <p>Reading materials (book title, authors): 1. Abelloff's Clinic Oncology, 5th Edition (2014) 2 . Stell and Maran's O. Textbook of head and neck surgery and oncology (2012). Textbook. 3.Jatin Shah. Head and Neck Surgery and Oncology (2012) Handbook.</p>		2 hour	2 hour	
XI curation	<p><b>Thyroid cancer: clinic, diagnosis and treatment</b></p> <p>Brief overview:</p>		2 hour	2 hour	

day	<p>Clinic of thyroid cancer (solitary nodular form, multinodular form, mixed form, pseudo-inflammatory form, latent form - diagnosis fine needle aspiration biopsy, USM, radionuclide examination, radiological examination, laboratory methods), treatment (surgery, radiation, radiation, radioactive). treatment, chemotherapy, combination therapy, complex therapy), prognosis (depending on the patient's age, sex, histological structure of the tumor.</p> <p>Reading materials (book title, authors):  1. Abeloff's Clinic Oncology, 5th Edition (2014)  2 . Stell and Maran's O. Textbook of head and neck surgery and oncology (2012). Textbook.  3.Jatin Shah. Head and Neck Surgery and Oncology (2012) Handbook.</p>				
XII curation day	<p><b>Extra-organ tumors of the neck</b></p> <p>The main groups of extra-organ tumors of the neck (neurogenic, mesenchymal, disembryonic), neurogenic (neurinoma, neurofibroma, ganglioneurinoma, hemodectoma), mesenchymal (lipoma, lipomatosis, liposarcoma, hemangioma, lymphangioma, angiosarcoma, fibromagenchioma, fibroma desmo) chordoma, tinoma, tumors developing from the additional thyroid gland) clinic, diagnosis, differential diagnosis and treatment of tumors of origin.  Clinic, neurological symptoms.  Diagnostics. Carotid hemodectomy.  Treatment. Crileoperation, dissection of neck lymphnodes, Vanakhoperation, combined and complex treatment. Long term results.</p> <p>Reading materials (book title, authors):  1. Abeloff's Clinic Oncology, 5th Edition (2014)  2 . Stell and Maran's O. Textbook of head and neck surgery and oncology (2012). Textbook.  3.Jatin Shah. Head and Neck Surgery and Oncology (2012) Handbook.</p>		2 hour	2 hour	

<b>Total</b>	<b>6 hour</b>	<b>24 hour</b>	<b>30 hour</b>	
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Week \* - Lectures are held weekly and curriculum is up to date, since the schedule at the university is ready for the semester. The location of lectures and institutions can be changed on special oncology.

**V. Examination form - tested by a computer.**

**VI. Evaluation and score distribution within the semester:**

The maximum number of points is 100 points.

A) Maximum score scored within the semester - 50 points.

Lesson attendance	10 point
According to the free work of students (synopsis, presentations, research work, etc.) Note: Plagiarism is strictly forbidden! A brief description of all the free work-related assignments, terms of presentation, timing, and valuation method are clearly indicated.	10 point
According to the results of training sessions, 30 points are allocated.	30point

Each student presents 2 free evaluations of 2 points or 2 presentations evaluated 5 points.

B) According to the semester exam results - maximum 50 points

Each test task is given 50 questions, each question - 1 point, the wrong answer will affect the outcome.

Note: The student has to score at least 17 points from the exam.

C) Assessment based on semester outcomes (based on scores collected from the exam and during exam)

91 – 100 point	excellent	<b>A</b>
81 – 90 point	Very well	<b>B</b>
71 – 80 point	good	<b>C</b>
61 – 70 point	satisfactory	<b>D</b>
51 – 60 point	enough	<b>E</b>
Less than 51 point	insufficient	<b>F</b>

**Prepared:**

**ass. prof. E.R. Hüseyinov**