

ODESSA NATIONAL MEDICAL UNIVERSITY
Department of Normal and Pathological Clinical Anatomy

SYLLABUS OF THE COURSE
" Sectional Biopsy diagnostics "

The volume of the course	3.0 credits ECTS, 90 hours
Semester, year of study	X th semester, V th year of study
Days , time, place	Odessa, Valikhovsky Lane, 3a, Department of Normal and Pathological Clinical Anatomy, Morphological building of ONMedU , 2-nd floor . Bases of the department: Prosecture (morgue), University Clinic, st. Tenistaya, 8.
Teachers	<ol style="list-style-type: none"> 1. Appelhans Olena Leonidivna - Head of the Department of Normal and Pathological Clinical Anatomy, Doctor of Medicine , Professor; Contact phone: + 38-067-484-20-52; sonshine22@ukr.net 2. Litvinenko Marianna Valeriyivna - Associate Professor of the Department of Normal and Pathological Clinical Anatomy, Candidate of Medical Sciences , Associate Professor; Contact phone: + 38-066-754-55-26; prozektor777@gmail.com 3. Sytnikova Varvara Oleksandrivna - Doctor of Medicine , Professor of the Department; + 38-067-450-41-10; patanonmedu@ukr.net 4. Oliynyk Nina Mykolayivna - Candidate of Medical Sciences , Associate Professor of the Department; + 38-067-994-37-04; ninaoleynik46@gmail.com 5. Buryachkivsky Eduard Stanislavovych - Candidate of Medical Sciences , Associate Professor of the Department; + 38-068-255-52-12; edik1973@ukr.net 6. Narbutova Tamara Evhenivna - Candidate of Medical Sciences , Assistant Professor; + 38-096- 998-02-38 ; t.narbutova@ukr.net 7. Vasiliev Vladislav Vladimirovich - assistant of the department; + 38-094-948-62-79 ; vladislav3v@ukr.net 8. Aryomov Alexander Valentinovich - Candidate of Medical Sciences , Assistant Professor; + 38-0 6 7- 858 - 7 6 - 81 ; art_onkol@ukr.net 9. Syviy Sylvester Mikhailovich - assistant of the department; +38-0 67 - 899 - 20 - 36; sylvestr.syvyi@onmedu.edu.ua 10. Savenko Tetyana Oleksandrivna - assistant of the department; + 38-0 93 - 690 - 90 - 90; Savenko 2903

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Consultations	Consultations are conducted by teachers of the department according to the schedule : Face-to-face consultations: Thursday from 15.00 to 17.00; Saturday from 9.00 to 13.00 Online consultations : Thursday from 15.00 to 17.00; Saturday with 9.00 to 13.00 https://moodle.odmu.edu.ua/ or via <i>Microsoft Teams</i> / Telegram / viber / Zoom

COMMUNICATION is carried out by means of e - mail of department: anatomy@onmedu.edu.ua , as well as with the help of Viber and Telegram messengers and through the sites [www . anatomist . in . ua](http://www.anatomist.in.ua) , [https : // anatom . ua](https://anatom.ua) / [https : // meduniver . com / Medical / Anatom](https://meduniver.com/Medical/Anatom)

COURSE ANNOTATION

The subject of the study discipline " breakout-biopsy diagnosis " , is the structural basis of human diseases for advanced mastering the fundamentals of medicine and clinical picture of the disease then use the obtained knowledge in practice of physician.

Prerequisites of the discipline: normal anatomy, physiology, histology, pathomorphology , pathological physiology, propaedeutics of internal medicine, pharmacology, general surgery;

Postrequisite and disciplines: internal medicine, family medicine, obstetrics and gynecology, surgery, infectious diseases.

The purpose of studying the discipline " Sectional biopsy diagnostics " - students mastering the method of clinical and anatomical analysis of biopsy , surgical and sectional material and the principles of diagnosis, technique of autopsy and design of pathological documentation.

The main tasks of studying the discipline " Sectional biopsy diagnostics " :

1) laying the foundations of knowledge on the organization of the pathological service in Ukraine and its purpose;

2) study by students of methods of diagnostics of pathological processes and diseases by research of biopsies and postoperative material (world and electron microscopy, immunohistochemistry , autoradiography , histochemistry and cytochemistry);

3) study of the importance of clinical and anatomical analysis as a method of knowledge of the circumstances of diseases, features of their course, causes and mechanisms of death, their development (morphogenesis), the structural basis of recovery, complications and consequences of diseases;

4) definition of the structure of clinical and pathological diagnoses (underlying disease, its complications, comorbidities, cause of death), as well as the concept: combined underlying disease, competing, combined and background using the International Classification of Diseases X revision (1995).

5) consideration of variants of pathomorphosis of diseases that arise in connection with changing human living conditions and as a result of various therapeutic measures (pathology of therapy);

6) providing information on morphological and clinical manifestations of diseases at all stages of their development, generalization of skills of clinical and anatomical analysis, synthetic analysis of diagnostic signs of diseases and their correct interpretation in causal relationships;

7) determining the role of clinical and anatomical conferences, medical control commission and commission for the study of fatalities.

Ability to continue further independent learning: to use knowledge to master post-requisite clinical disciplines.

In accordance with the requirements of the standard, the discipline provides students with the acquisition of *competencies* :

Integral competence (IC): The ability to solve complex problems and problems in a particular field of professional activity or in the learning process, which involves research and / or innovation and is characterized by complexity and uncertainty of conditions and requirements.

General competencies (GC):

- Ability to abstract thinking , analysis and synthesis
- Ability to apply knowledge in practical situations
- Knowledge and understanding of the subject area and understanding of professional activity
- Ability to communicate in the state language both orally and in writing; ability to communicate in a foreign language
- Skills in the use of information and communication technologies

Professional (special) competencies (PC):

- Ability to determine the required list of laboratory and instrumental studies and evaluate their results
- Ability to establish a preliminary and pathological diagnosis
- Ability to determine the principles and nature of disease treatment
- Skills to perform medical manipulations
- Ability to keep medical records
- Ability to analyze the activities of a doctor, department, health care institution, to take measures to ensure the quality and safety of medical care and increase the efficiency of medical resources.

Program learning outcomes

According to the requirements of the Standard, the student when studying the discipline " Sectional biopsy diagnostics " the student must **know** :

- general and special fundamental and professionally- oriented knowledge, skills, abilities, competencies necessary to perform typical professional tasks related to its activities in the medical field in the relevant position

The student must **be able to** :

- apply the acquired knowledge, skills and understanding to solve typical problems of the doctor, the scope of which is provided by lists of syndromes and symptoms, diseases, emergencies, laboratory and instrumental research, medical manipulations
- collect patient information
- evaluation of survey results, physical examinations, laboratory and instrumental research data
- establishing a preliminary pathological and anatomical diagnosis of the disease
- determining the nature and principles of treatment of diseases
- performing medical manipulations
- assessment of the impact of the environment on the health of the population
- describe morphological (macroscopic, microscopic and ultrastructural) changes of tissues and organs in typical pathological processes and diseases.
- on the basis of the description to draw a conclusion about the nature of the pathological process and its clinical manifestations.
- evaluate the results of the autopsy.
- evaluate morphological changes in biopsy and section materials.
- analyze the morphological manifestations of diseases.
- analyze the structural basis of the development of diseases and their clinical manifestations, the structural basis of recovery, complications and consequences with the subsequent use of the acquired knowledge in the practical work of the doctor.
- to carry out differential diagnosis between pathological processes.

Formation of judgments:

- ability to apply the acquired knowledge about the existing health care system to optimize their own professional activities and participate in solving practical problems of the industry
- the formation of a specialist with appropriate personal qualities, who adheres to the code of ethics of the doctor

COURSE DESCRIPTION

Forms and methods of teaching

The course will be presented in the form of lectures (10 hours), practical (30 hours), organization of independent work of students (50 hours).

Teaching methods: The types of educational activities of students according to the curriculum are lectures, practical classes and independent work of students (IWS).

Practical classes include:

1) research by students of the organizational structure of the pathological anatomical service and orders of the Ministry of Health of Ukraine, which regulate its

work, including knowledge of the documentation of the pathological anatomical bureau and pathological anatomical departments;

2) participation in the autopsy and registration of the protocol of pathological autopsy, knowledge of the procedure for filling out and issuing a medical certificate of death, medical certificate of perinatal death;

3) rules of research of biopsy and operative, cytological material, borders of biopsies, the form of the pathologist's description of a biopsy;

4) participation in the clinical and anatomical conference, its preparation and holding, to know the tasks of medical control commissions and commissions for the study of fatal consequences;

5) know deontological and ethical aspects in pathological practice.

The content of the discipline

Topics of lectures: 1. Subject and tasks of the pathological service. Methods of pathological research. Technique of autopsies. 2. Necrosis-definition, terms and phases of development, consequences. Pathological anatomy of multiorgan failure, postischemic-reperfusion organ damage. 3. Principles of formulation of clinical and pathological diagnoses. Making a pathological diagnosis. 4. Pathological documentation. Rules of registration of the "Medical certificate of death". 5. Method of research of biopsy, surgical material and manure. Rules of research and the order of registration of documentation concerning research of morphological material.

Topics of practical classes: 1. Tasks, methods and organization of pathological service, its place in the health care system of Ukraine. The basic principle of organization of pathological service in medical and preventive institutions. Basic pathological documentation (orders, regulations, instructions). Mandatory forms of medical documentation in the pathological institution (unit). 2. Method of research of biopsy, surgical material and manure. Rules of research and the order of registration of documentation concerning research of morphological material. Participation in macroscopic study, cutting, marking of materials for lifelong morphological diagnosis. 3. Analysis and evaluation of the results of morphological examination of biopsies, surgical materials, manure. The role of morphological studies in the complex of examination and treatment of patients. 4. Pathological autopsy of the deceased (adult, newborn, stillborn or fetus). The value of autopsy as a reliable source of information about the causes of human death and mortality, the quality of diagnosis and treatment in treatment and prevention facilities. The procedure for autopsy and registration of pathological documentation on it. Rules of registration of "Medical certificate of death", "Medical certificate of perinatal death". The order of registration of the protocol of pathological autopsy of a corpse. 5. Features of autopsies of the dead from infectious diseases and especially dangerous infections. 6. Procedure for autopsy of persons who died with suspected coronavirus disease (COVID-19). Requirements for the organization of burial of deaths from infections caused by COVID-19. 7. Terminal states of the organism. Definition. Mechanisms and stages of development. Resuscitation pathology. The concept of resuscitation pathology, stage of development, disease rejuvenated body, the causes and mechanisms of development, principles of morphological diagnosis. Sudden cardiac death. Modern ideas, causes and mechanisms of development, morphological manifestations of acute heart failure and ventricular fibrillation. Morphological bases and equivalents of arrhythmias. 8. Pathological anatomy of multiorgan failure. Basics of Thanatology. Death, mechanisms, signs. Biological, medical, social aspects due to chronic incurable disease. The concept of thanatogenesis. Structural mechanisms of termination of vital organs during the natural course of the disease. Complications of heart failure, lung, brain, kidney, liver. 9. Principles of formulation of clinical and pathological diagnoses. Making a pathological diagnosis. Clinical and morphological analysis of the materials of the pathological autopsy of the corpse in terms of assessing the quality of lifelong diagnosis and treatment (pathological examination). Comparison of clinical and pathological diagnoses. Categories of discrepancies in diagnoses. Writing a pathological epicrisis. 10. Features of the course, variability of

diseases. Pathomorphosis of diseases (natural and induced). Pathology of diagnostic and therapeutic procedures (iatrogenic). 11. Preparation and holding of a meeting of the medical control commission, the commission for the study of fatal consequences and a clinical and anatomical conference. Deontological and ethical aspects in pathological practice. 12. Final lesson. Differential from alik.

Topics of independent work of students: 1. History of development of pathological anatomical service in Ukraine. 2. Method of research of biopsy, surgical material and manure. Rules of research and the order of registration of documentation concerning research of morphological material. 3. Rules of taking and processing of the material received from various bodies and pathological educations. 4. Biological death - definition, causes and timing of development in the natural course of the disease. Early and late signs of biological death and death of a resuscitated patient. Morphological characteristics of cadaveric changes. 5. International Classification of Diseases (ICD) - a normative document that ensures the unity of methodological approaches and international verification of materials. ICD of the 10th and 11th revisions. Work with the International Classification of Diseases X revision (1995) according to the pathological diagnosis of autopsy. 6. The order of appointment and conduct of pathological autopsies of corpses. Terms. The procedure for dissecting the corpses of persons who died in the hospital. The procedure for dissecting the corpses of persons who died outside the hospital. The procedure for autopsies of newborns and stillbirths, children's corpses. 7. Methods of pathological autopsy. Features of autopsy of a newborn, stillborn or fetus. 8. Preparation and holding of a meeting of the medical control commission, the commission for the study of fatal consequences and a clinical and anatomical conference. Deontological and ethical aspects in pathological practice. 9. Pathomorphological bases of resuscitation and intensive care, their connection with forensic assessment of changes in organs and tissues. 10. The procedure for reviewing medical history. 11. Preparation for the differential test.

Recommended Books:

Basic:

1. Артемов О.В. Динаміка імунологічних змін в процесі неoad'ювантної терапії раку молочної залози із застосуванням препаратів на основі ртутьвмісних хелатних комплексів / О.В. Артемов, Е.С. Бурячківський // Вісник проблем біології і медицини. - 2017. – Вип.1(135) - С. 79-82.
2. Атлас мікропрепаратів з патоморфології / І.І. Старченко, Б.М. Филенко, Н.В.Ройко та ін.; ВДНЗУ “УМСА”.- Полтава, 2018.-190с
3. Гавриш А.С. Ишемическая кардиомиопатия / А.С. Гавриш, В.С. Пауков. – М.: “ГЭОТАР-Медиа”, 2015. – 536с
4. Доброякісні новоутворення кісток щелепно-лицевої ділянки у дітей / П.І. Ткаченко, І.І.Старченко, С.О. Білокінь [та ін.] – П.: “УМСА”, 2016. – 85с
5. Загальна патоморфологія / І.І. Старченко, Н.В. Ройко, Б.М. Филенко [та ін.] – Полтава, 2016. – 136с.
6. Зербіно Д. Д. Патоморфологія та гістологія : атлас / Д. Д. Зербіно, М. М. Багрій, Я. Я. Боднар, В. А. Діброва. – Вінниця : Нова Книга, 2016. – 800с.
7. Интерпритация биопсий в педиатрии / под. ред. А.Н. Хусейн; пер. с англ. под общей ред. Ф.Г. Забозлаева. – М.: Практическая медицина,

2019. – 448 с.

8. Криволапов Ю.А. Макроскопическое исследование биопсийного и операционного материала. Руководство для врачей-патологоанатомов / под. ред. Ю.А. Криволапова. – М.: Практическая медицина, 2019. – 352 с.
9. Ларкина С. А., Олейник Н. Н., Вастьянов Р. С., Рудой Д. А. Концентрация гиалуроновой кислоты и эффекты биоревитализации. Результаты морфологического исследования. Инъекционные методы в косметологии. 2018. №1. С. 44-49.
10. Литвиненко М.В. Морфо-функциональные особенности яичников у ВИЧ-инфицированных женщин. Вісник проблем біології і медицини - 2020 - Вип. 4(158). с.296-299
11. Литвиненко М.В. Особенности пролиферативной активности цервикальной ткани при наличии алкогольной зависимости. Вісник проблем біології і медицини -2020- Вип. 3(157). с.274-277
12. Методики морфологічних досліджень / М.М. Багрій, В.А. Діброва, О.Г. Пападинець, М.І. Гришук; за ред.. М.М. Багрія, В.А. Діброви. – Вінниця: Нова Книга, 2016. – 328 с.
13. Нарбутова Т.Є. Морфологічна характеристика структурних компонентів аорти у дітей з критичною коарктацією аорти / Т.Є Нарбутова, Р.Й.Лекан, В.П. Бузовський // Досягнення біології та медицини. – 2016. – №1 (12). – С.48-52.
14. Новосельцева Т.В. Патологія статевої та ендокринної систем / Т.В. Новосельцева, Б.М. Филенко, Н.І. Гасюк. – Полтава: ТОВ “АСМІ”, 2015. – 199 с.
15. Новоутворення щелепно-лицевої ділянки у дітей / П.І. Ткаенко, І.І. Старченко, С.О. Білоконь та ін.. – Полтава: Тов. “АСМІ” – 2018. – 190с.
16. Основи патології за Роббінсом: у 2 томах. Том 1 / Віней Кумар, Абул К. Аббас, Джон К. Астер; переклад 10-го англ. видання. Видавництво: Всеукраїнське спеціалізоване видавництво “Медицина”. – Х ІІ. – 2019. – 420с.
17. Основи патології за Роббінсом: у 2 томах. Том 1 / Віней Кумар, Абул К. Аббас, Джон К. Астер; переклад 10-го англ. видання. Видавництво: Всеукраїнське спеціалізоване видавництво “Медицина”. – Х ІІ. – 2019. – 420с.
18. Патоморфологія. Загальна патоморфологія: навчальний посібник / за ред. Я.Я. Боднара, В.Д. Волошина, А.М. Романюка, В.В. Гаргіна. - Нова Книга, 2020. - 248 с.
19. Патоморфологія : нац.. підруч. / В.Д. Марковський, В.О. Туманський, І.В. Сорокіна [та ін.]; за ред.. В.Д. Марковського, В.О. Туманського. – К.: ВСВ «Медицина», 2015. – 936с.

20. Патоморфологія основних захворювань серцево-судинної системи: навчальний посібник / І.І. Старченко, Б.М. Филенко, Н.В. Ройко. – Полтава: “УМСА”. – 2019. – 150с.
21. Практикум з біопсійно-секційного курсу / І.І. Старченко, А.П. Гасюк, С.А. Проскурня [та ін.] – Полтава, 2016. – 160с.
22. Савенко Т.О., Бурлаченко В.П., Литвиненко М.В. Аналіз летальних випадків від коронавірусної хвороби в Одесі та Одеській області за 2020 р. / "Український науково-медичний молодіжний журнал". // Матеріали Міжнародної медичної он-лайн конференції "Наукові дослідження патологоанатомів України: досягнення та перспективи розвитку", 22-23 квітня 2021р., м Суми.
23. Ситнікова В.О. Клініко-морфологічні особливості перебігу внутрішнього ендометріозу у поєднанні з ендометріюїдною карциномою ендометрію у жінок в постменопаузі / В.О. Ситнікова, Г.Ю. Гончаренко // Science Review. – 2018. – №2(9). – С.58–60
24. Старченко І.І. Патоморфологія основних захворювань щелепно-лицевої ділянки : навч. посіб. / І.І. Старченко, Б.М. Филенко, В.В.Черняк ; “УМСА”. – Вінниця : Нова Книга, 2019. – 128с.
25. Старченко І.І. Спеціальна патоморфологія (базовий курс) для студентів медичних факультетів вищих медичних навчальних закладів III-IV рівнів акредитації / І.І. Старченко, Н.В. Ройко, Б.М. Филенко. – Полтава, 2017. – 174с.
26. Трансформація слизистої оболочки мочевого пузиря / В.В. Гаргін, К.К. Абовян, М.В. Литвиненко // Теоретична експериментальна медицина 2018. №1 (78).- С.4-8
27. Туффаха С. А. Муин Иммуногистохимия в диагностике опухолей / С. А. Туффаха Муин, С. Г. Гичка, Гуски Ганс. – "Книга плюс", 2018. – 336с.
28. Cervical transformation in alcohol abuse patients/ Lytvynenko M., Bocharova T., Zhelezniakova N., Narbutova T., Gargin V. // Georgian medical News № 10 (271) 2017. – С. 12- 17.
29. Essentials of pathology: textbook / Ya.Bodnar, A.Romanyuk, V. Voloshyn, V. Gargin - Kharkiv, «Planeta-Print» Ltd, 2020, 219 p.
30. Lytvynenko M. Features of endometrial restructuring in HIV infection. INTER COLLEGAS, vol.7, №4 2020. – 200-204.
31. Pathology: textbook / I.V.Sorokina, V.D. Markovskiy, D.I. Halata et al.; edited by I.V.Sorokina, V.D. Markovskiy, D.I. Halata. - Kyiv : AUS Medicine Publishing, 2019. - 328p. + 2 colour inserts (8p. + 12p.).
32. Pathology: textbook / I.V.Sorokina, V.D. Markovskiy, D.I. Halata et al.; edited by I.V.Sorokina, V.D. Markovskiy, D.I. Halata. - 2 nd edition. - Kyiv : AUS Medicine Publishing, 2020. - 328p. + 2 colour inserts (8p. +

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33. Peculiarities of proliferative activity of cervical squamous cancer in HIV infection/ [Lytvynenko M](#), [Shkolnikov V](#), [Bocharova T](#), [Sychova L](#), [Gargin V](#). // [Georgian Medical News](#). 2017 Sep;(270):10-15.
 34. Results of Multitarget Therapy Anti-PD-1/PD-L1/CD19/CD25/CD38 with Application of MSC-428 Molecules in Patient with Different Oncopathology/ O. Lukyanchuk, A. Artemov, E. Buryachkovsky [et al.]// *Acta Scientific Cancer Biology*. Volum 2.10 (2018):03-22
 35. Rozhkovskaya N. M., Sitnikova V. O., Sivi S. M., Lomakina I. S. Clinical and morphological features of combined hyperplastic diseases of the uterus against the background of adenomyosis. *Journal of Education, Health and Sport*. 2020;10(4):226-233.
 36. Sitnikova V.O. Morphological Research of placenta in women with preterm labor/ V.O. Sitnikova, O.M. Nadvorna, O.V. Kashiyan // *Вісник наукових досліджень*. –2019. – №2. – С. 58–61.
 37. Zhelezov D., Savenko T., Zhovtenko O. Deutscher pathomorphosis of pericatricial myometrium: f new view concerning the problem of uterine scar. / *German Science Herald*, N 4/2019. p. 27-30
 38. Zhelezov D.M., T. O. Savenko. «Формування рубця на матці та експресія специфічних білків сполучної тканини» Актуальні питання акушерства і гінекології. № 1 (2020). С.132-134.

Additional :

1. Дегтярєва Л. В. Патоморфоз пептичної виразки дванадцятипалої кишки у потерпілих від аварії на Чорнобильській АЕС / Л. В. Дегтярєва, В. П. Терещенко, В. А. Піщиков. – К. : Медінформ, 2004. – 368с.
2. Казаков В. М. Грип А /H1N1/ Каліфорнія /04/09 / В. М. Казаков, В. Г. Шлопов. – Донецьк: «Каштан», 2010. – 420с.
3. Клініко-морфологічні аспекти аномалій розвитку зубів / Ткаченко, І.І.Старенко, С.О. Білокінь [та ін.] – П.: ТОВ «АСМІ», 2014. – 80с.
4. Медичні засади розпізнавання патології, індукованої чинниками Чорнобильської катастрофи, для становлення факту інвалідизації / Терещенко В. П., Дегтярєва Л. В., Сегеда Т. П [та ін.] ; за ред. доктора медичних наук, професора В. П. Терещенко. – К. : Медінформ, 2005. – 160с.
5. Патоморфоз хронічного гастриту у ліквідаторів наслідків аварії на Чорнобильській АЕС / В. П. Терещенко, Л. В. Дегтярєва, О. С. Самусєва [та ін.] ; за ред. В. П. Терещенко. – К.: МВЦ «Медінформ», 2005. «Медінформ» 224с.
6. Патоморфоз фолікулярних пухлин щитовидної залози у киян після Чорнобильської катастрофи / В. П. Терещенко, О. О. Самойлов, І. Л.

- Аветис'ян [та ін.] ; за ред. В. П. Терещенко. – К. : МВЦ «Медінформ», 2004. – 240с.
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EVALUATION

Evaluation of current learning activities (CLA). The current learning activities of students are monitored in practical classes in accordance with specific goals and during the individual work of the teacher with students. The following means of diagnosing the level of preparation of students are used: computer tests; solving situational problems ; structured written works; structured according to the procedure control of practical skills and abilities (assessment of knowledge and skills to analyze and interpret as skills and abilities of a pathologist in studying certain pathological processes on the section course, and features of filling medical documents on the organization and work of the pathology service according to orders of the Ministry of Health of Ukraine and work of Prozedure. Making the autopsy report and the issues identified in the list of the working curriculum of the discipline (WCD) and ОКН specialty.

During the assessment of mastering each educational topic of the discipline (WCD) and the final lesson (FL) the student is graded according to the traditional 4-point system: "excellent", "good", "satisfactory" and "unsatisfactory".

Conversion of the average grade for current educational activities (CEA) in a multi-point scale, for a sectional course, is carried out in accordance with table 1.

Criteria for assessing the current educational activities of the student

Current control involves a 100% survey of students in the group with a mandatory assessment of all components of the lesson - test control, oral examination, description of drugs. At each practical lesson, the teacher evaluates the knowledge of each student on a four-point system "5-4-3-2", from which the teacher determines the arithmetic mean (for each component), which is translated into points according to the distribution determined by the department. If during the determination of points for the lesson the arithmetic mean is "2", it corresponds to 0 points.

The weight of each topic within the term of the discipline is the same.

Diff. student credit is assessed on a 4-point (traditional) scale.

- evaluation "excellent" put student who regularly worked during the academic year, revealed during a test diverse and deep knowledge of program material, can successfully perform the practical task of describing the macro and micropreparations, learned the meaning of basic and additional literature, understood the relationship of individual sections of the discipline, their importance for the future profession, showed creative abilities in understanding and using educational material, showed the ability to independently update and replenish knowledge; level of competence – high (creative);

- evaluation "good" put the student who discovered the full knowledge of training and software material, successfully performs prescribed program of practical task of describing the macro and micropreparations, learned basic literature, which recommended the program showed a sufficient level of knowledge of the discipline and able to their self-renewal and renewal in the course of further training and professional activities; level of competence – sufficient (constructive-variable);

- evaluation of "satisfactory" is put to a student who showed knowledge of basic teaching and programming material in amount, necessary for further study and subsequent work by profession, charged with the execution of practical tasks with descriptions macro and micropreparations, provided by the program, admitted some mistakes in the responses to theoretical questions and when performing practical tasks, but has the necessary knowledge to overcome admitted mistakes under the guidance of scientific and pedagogical worker; level of competence - average (reproductive);

- evaluation of "unsatisfactory" put the student is not found sufficient knowledge of basic training and software material, made a fundamental error in the performance prescribed program of practical tasks with descriptions macro and micropreparations not can not help the teacher to use knowledge with further training not managed to acquire skills independent work; level of competence - low (receptive-productive).

Assessment of independent work. Assessment of students' independent work, which is provided in the topic along with classroom work, is carried out during the

current control of the topic in the relevant classroom. Assessment of topics that are submitted only for independent work and are not included in the topics of classroom training, is controlled by the final control.

The final control is carried out upon completion of the study of all topics in the last control lesson.

Students who have completed all types of work provided by the curriculum and scored at least the minimum number of points in the studied discipline are admitted to the final control.

The form of final control is standardized and includes control of theoretical and practical training. Specific forms of final control from the sectional biopsy course are defined in the working curriculum.

Conducting the final lesson. The final lesson (*hereinafter - the software*) must be held during the semester on schedule, during classes in each section of the discipline.

Acceptance of software is carried out by the teacher of the academic group.

Materials for preparation for the software are posted on the information stand, in the form of:

- various databases of test items from the section-biopsy course;
- criteria for assessing the knowledge and skills of students ;
- schedule of consultations and completion of missed classes by students during the semester.

Criteria for assessing students' knowledge for current educational activities.

When assessing the mastery of each topic of the student's module, grades are set on a 4-point (traditional) scale ("2", "3", "4", "5"). Components of traditional assessment:

1. Survey - 50% of the traditional assessment (2 points of the traditional assessment).

The survey is evaluated as follows:

0 points - the student does not know the answer to the question or refuses to answer.

1 point - the student answers the question, but makes significant mistakes or did not answer in full.

2 points - a student in full and correctly answered the question.

The student has the right to receive 1 additional point for active participation in the survey (additions to questions that other students could not answer), but in the amount of not more than 3 points of the traditional assessment for the survey.

2. Control of practical skills and abilities (analysis of macro- and microscopic changes in organs and systems of the deceased at the opening of diseases, the ability to fill a medical certificate of death and perinatal death, the ability to prepare and conduct clinical and anatomical in conference you knowledge of types of biopsy material) - 50% of the traditional assessment (2 points of the traditional assessment).

The control of practical skills is assessed as follows:

0 points - the student has not executed or incorrectly executed practical and navych ing and skills;

1 point - student practically completed and navych ing and skills , but made a material misstatement ;

2 points - student correctly performed practically and navych ing and skills . The student is allowed to take the final control if the average score of the current performance is more than 3.00.

Assessment of students' independent work .

Assimilation of topics that are submitted only for independent work is checked during the final lesson.

Criteria for assessing students' knowledge at the final control.

Differentiated credit involves the evaluation of three components :

1. **40** test tasks - the grade "excellent" is given on condition of the correct answers to 38-40 test tasks, the grade "good" is given on condition of the correct answers to 34-37 test tasks, the grade "satisfactory" is given on condition of the correct answers on 30- 33 test tasks, the grade "unsatisfactory" is set provided the correct answers to 29 or less test tasks ;

2. **2** situational tasks for establishing a pathological diagnosis . When solving a situational problem, the student must determine:

- a) the main disease;
- b) complications of the underlying disease;
- c) concomitant diseases;
- d) the immediate cause of death.

The grade "excellent" is given in terms of correct answers to all points, the grade "good" is given in terms of correct answers to items "a", "b" or "c" and "d", the grade "satisfactory" is given in terms of correct answers only on items "a" and "d", the grade "unsatisfactory" is set provided that the student has incorrectly identified the underlying disease.

3. **1** control question from the list. Grade "excellent" is given if the answer is in full, grade "good" is given if the student answers the test correctly, but makes minor mistakes, grade "satisfactory" is given if the student correctly describes only the basic concepts, grade "Unsatisfactory" is set if the student answers the question incorrectly, is confused in basic concepts or refuses to answer.

The total score on the differentiated credit is set as the arithmetic mean of the scores on the three components with rounding to the whole.

The general grade for the discipline is set as the arithmetic mean of the grades for differentiated credit and current performance, rounded to the second decimal place .

To assess the discipline as a whole on a 4-point traditional (national) scale , the average score for the discipline is first calculated as the arithmetic mean of the two components :

- 1) the average current score as the arithmetic of all current estimates ;

2) traditional assessment by diff. test.

Average score for discipline translates into the traditional evaluation of discipline a 4-point scale and is regarded as the ratio of the average arithmetic to percent mastering the required amount of knowledge of the subject.

The obtained average score for the discipline allows you to convert to a score on a 200-point scale. The assessment of the sectional biopsy course is min - 120 to max - 200.

Thus, the student receives two grades: the first - on the traditional 4-point scale and the second - on a 200-point system.

The multi-point scale characterizes the actual success of each student in mastering the discipline. Converting traditional evaluation of subjects in the 200-point runs Information and Computing Center University program "contingent" formula: the average score of the success of the course's 40.

Thus we get:

national assessment	ball
«5»	185-200
«4»	151-184
«3»	120-150

According to the rating scale ESTS evaluated the achievement of students with discipline, who taught one course a specialty, according to received their scores by ranking, as it:

ECTS score Statistical indicator

ECTS assessment	Statistical indicator
"A"	the best 10% of students
"B"	the next 25% of students
"C"	the next 30% of students
«D»	the next 25% of students
"E"	the last 10% of students

The ECTS scale establishes the student's belonging to the group of the best or worst among the reference group of classmates (faculty, specialty), i.e. his rating. When converting from a multi-point scale, as a rule, the limits of grades "A", "B", "C", "D", "E" do not coincide with the limits of grades "5", "4", "3" on the traditional scale.

Students, who have received evaluation "FX" and "F" ("2") is not made to the list of students, who are ranked. Such students automatically receive a score of "E" after re-assembly. Grade "FX" put students who took the minimum number of points for current educational activity, but which are not counted among the final control. Grade «F» put students who attended all lecture classes with discipline, but not yet the average score (3.00) for the current academic activities and is not admitted to the final control.

COURSE POLICY

Deadline and recompilation policy

Omissions of practical classes or unsatisfactory assessment are sent to the group teacher or the next teacher. Reception vidpratsyuvan and consultations are

conducted daily on Thursday from 15.00 to 17.00 and on Saturdays from 9.00 to 13.00 .

Academic Integrity Policy

The Department of Normal and Pathological Clinical Anatomy maintains zero tolerance for plagiarism. Students are expected to constantly increase their own awareness of academic writing. The first classes will provide information on what to consider plagiarism and how to properly conduct research and scientific research.

During the control of students' knowledge, writing, use of various software, tips, use of mobile phones or other electronic devices are not allowed.

Attendance and lateness policy

Students are required to systematically master the theoretical knowledge and practical skills provided by the curriculum in the discipline; always have a neat appearance (white robe, hat); turn off mobile devices during practical classes; comply with the rules of procedure of ONMedU .

During classes it is allowed: to leave the audience for a short time if necessary and with the permission of the teacher; drink soft drinks; take photos of presentation slides; take an active part in the class

It is forbidden to: eat (except for persons whose special medical condition requires another - in this case, medical confirmation is required); smoking, drinking alcohol and even low-alcohol beverages or drugs; to use obscene language or use words that offend the honor and dignity of colleagues and faculty; gaff; to damage the material and technical base of the university (damage inventory, equipment; furniture, walls, floors, litter the premises and territories); shouting, shouting or listening to loud music in classrooms and even in corridors during classes.

Students are not allowed to be late for practical classes.

Mobile devices

It is not allowed to use a mobile phone, tablet or other mobile devices during the lesson (except for the cases provided by the curriculum and methodical recommendations of the teacher) without the permission of the teacher.

Behavior in the audience

Practical classes involve active participation in the discussion in the audience, students must be ready to understand the material in detail, ask questions, express their views, discuss. During the discussion are important: respect for colleagues, tolerance for others and their experience, receptivity and impartiality, the ability to disagree with the opinion, but to respect the personality of the opponent, careful argumentation of his opinion and the courage to change their position under the influence of evidence, self-expression avoids unnecessary generalizations, describes his feelings and formulates his wishes based on their own thoughts and emotions, mandatory acquaintance with the original sources. A creative approach in its various manifestations is welcome. Students are expected to be interested in participating in city, national and international conferences, competitions and other events in the subject profile. Attendance at practical classes is mandatory.

Students with special needs must warn the teacher before the start of classes, at the request of the student it can be done by the head of the group. If a student has any questions, he can always solve it first of all with the teacher or head of the department, if necessary.

Occupational Health:

The first lesson of the course will explain the basic principles of labor protection by conducting appropriate training. It is expected that everyone should know where the nearest evacuation exit is, where the fire extinguisher is, how to use it, and so on.