

**MINISTRY OF HEALTH OF UKRAINE  
ODESSA NATIONAL MEDICAL UNIVERSITY**

**Faculty of Dentistry, International  
Department of Human Anatomy**

**Syllabus of the discipline  
"Clinical Anatomy and Operative Head and Neck Surgery"**

<b>Scope of the course</b>	Total number of hours per discipline: 90 hours / 3 credits. II year of study III, IV semester
<b>Days, Time, Place</b>	Classes are held in the classrooms of the department according to the schedule of classes. During distance learning, communication is carried out on the Microsoft Teams platform.
<b>Teachers</b>	<ol style="list-style-type: none"><li>1. Appelhans Elena. <i>Head of the Department, Doctor of Medical Sciences, Professor.</i></li><li>2. Koshelnyk Olena. <i>Ph.D, Associate Professor</i></li><li>3. Antsut Olga. <i>Senior Teacher, Head teacher of the department.</i></li><li>4. Antonova Natalya. <i>Senior Teacher, Head of the Museum of Human Anatomy.</i></li><li>5. Kuznetsova Olena. <i>Senior Teacher.</i></li><li>6. Chebotareva Svitlana. <i>Senior Teacher.</i></li><li>7. Ursu Aleksandr. <i>Senior Teacher, Head of the student group.</i></li></ol>
<b>Contact information</b>	<ol style="list-style-type: none"><li>1. Appelhans O. L.           0674842052</li><li>2. Antsut O.A.               0504561236</li><li>3. Antonova N.A.           0633547515</li><li>4. Kuznetsova O.A.       0632979525</li><li>5. Chebotareva S. O.       0674838985</li><li>6. Ursu O.Y.                 0971677773</li></ol> <p style="text-align: center;">E-mail <a href="mailto:anatomy@onmedu.edu.ua">anatomy@onmedu.edu.ua</a></p> <p>Trainings are carried out by the teacher on duty according to the schedule on Tuesday and Thursday - 14.30 - 17.30. For the period of wartime - on-line Teamse from 14.30 - 16.30 group "Working out - human anatomy and clinical anatomy")</p>

**COMMUNICATION:** Communication with applicants is carried out in the classroom (face-to-face). During distance learning, communication is carried out on the Microsoft Teams platform, as well as through correspondence by e-mail [anatomy@onmedu.edu.ua](mailto:anatomy@onmedu.edu.ua)., if necessary, through Viber and Telegram messengers.

## **COURSE SUMMARY**

**Subject of study:** Clinical Anatomy and Operative Surgery.

**Prerequisites.** The academic discipline "Clinical Anatomy and Operative Surgery" is based on applicants' knowledge of medical biology, human anatomy, histology, physiology, biophysics, biochemistry, Latin, foreign language (for professional purposes), medical terminology, ethics, philosophy and is integrated with these disciplines.

**Postrequisites.** The academic discipline "Clinical Anatomy and Operative Surgery" lays the foundations for applicants to study normal physiology, pathomorphology, pathological physiology, propaedeutics of clinical disciplines and the formation of skills to apply knowledge of clinical anatomy and operative surgery in the process of further study of all clinical disciplines and in future professional activities.

**The purpose of the course** is to provide each student with specific knowledge of clinical anatomy necessary to substantiate a clinical diagnosis, understand the pathogenesis of various diseases, the development of possible complications, as well as the choice of the most rational methods of surgical intervention, mastering the techniques and skills of surgical interventions.

### **Objectives of the discipline:**

- formation of knowledge of clinical anatomy of the head and neck areas;
- ability to interpret topographic and anatomical relationships from the standpoint of variational and age-related clinical anatomy;
- formation of skills to apply knowledge of clinical anatomy to substantiate the diagnosis and understand the pathogenesis of various pathological processes;
- formation of skills in choosing the most rational methods of surgical intervention;
- Knowledge of the technique of performing basic surgical interventions.

### **Expected results:**

As a result of studying the discipline, the applicant must:

*To know:*

- the general principle of layer-by-layer structure of the head and neck;
- clinical anatomy of the head and neck areas;
- clinical anatomy of cellular spaces, neurovascular bundles;
- clinical anatomy of the skull;
- age and individual features of the structure, shape, topography and syntopy of the head and neck;
- basic principles and techniques for the use of surgical instruments;
- principles of primary surgical treatment of wounds;
- basic principles and stages of the simplest surgical interventions.

*Be able to:*

- demonstrate and describe the clinical anatomy of the head and neck, tissue spaces, neurovascular bundles;
- use knowledge of clinical anatomy to substantiate the diagnosis of various pathological conditions;
- use knowledge of clinical anatomy to substantiate the pathogenetic mechanisms of the development of various pathological conditions;
- be proficient in basic surgical instruments;
- know the basic principles of primary surgical care of wounds;
- use knowledge of clinical anatomy to choose the method and method of surgical intervention;
- possess the technique of performing basic (programmatic) surgical interventions.

### **DESCRIPTION OF THE DISCIPLINE (COURSE)**

The course will be taught in the form of practical classes (30 hours), organization of independent work (60 hours).

#### **Teaching Methods:**

*verbal* (story, explanation, conversation, lecture, solving clinical situational problems, working with a book);

*visual* (drawing, demonstration, illustration);

*practical* (development of practical skills, correct use of surgical instruments).

#### **Forms of the higher education applicants' Independent Work (SRS):**

- theoretical preparation for the next practical lesson;
- solving thematic test tasks;
- solving thematic situational problems;
- writing literature reviews, essays and presentations on certain topics of educational material using additional educational and scientific literature;
- identification of anatomical structures in topographic anatomical drawings;
- development of some practical skills.

#### **The content of the discipline**

Topic 1. General surgical instruments. The technique of separating and joining tissues. Types of surgical sutures and knots.

Topic 2. Clinical anatomy of the cerebral part of the head. Regions, their layered structure.

Topic 3. Operations on the cerebral part of the head. Primary surgical debridement of skull wounds. Craniotomy. Anthrotomy.

Topic 4. Clinical anatomy of the lateral region of the face. Facial nerve.

Topic 5. Clinical anatomy of the deep area of the face. Maxillary artery. Venous plexuses. Trigeminal nerve.

Topic 6. Clinical anatomy of the anterior part of the face. Orbital area. Nasal area, paranasal sinuses.

Topic 7. Facial surgeries. Surgical interventions on the paranasal sinuses. Topographic and anatomical substantiation of rational incisions on the face.

Topic 8. Clinical anatomy of the oral cavity. Tongue. Teeth. The bottom of the oral cavity. Dental formula.

Topic 9. Clinical anatomy of the neck. Regions, triangles. Fascia of the neck and interfascial spaces. Suprahyoid area.

Topic 10. Clinical anatomy of the sublingual area. Neurovascular bundle, cervical plexus.

Topic 11. Clinical anatomy of the neck organs. Clinical anatomy of the lateral triangle of the neck.

Topic 12. Neck surgeries: Tracheotomy. Tracheostomy. Conicotomy. Cricotomy.

Topic 13. Neck wounds. Ligation of blood vessels in the neck.

Topic 14. Surgical interventions for purulent diseases of the head and neck.

Topic 15. Development of practical skills.

### **List of recommended reading**

#### *Basic:*

1. Koshelnyk E.L. Basics of clinical anatomy and operative surgery: study guide for students / E.L.Koshelnyk, A.G.Popov. – Odessa: Odessa State Medical University, 2019. – 103 p.
2. Clinical anatomy and operative surgery: text book/Slobodyan A., Kostyuk G., Yershov V., Psvtorak V.; edited by Yershov V.- Kyiv: AUS Medicine Publishing, 2018.-514 p.
3. Tsyhykalo O. V. Topographical anatomy and operative surgery [Text]: textbook for english-speaking foreign students of higher educational institutions of III-IV levels of accreditation /O.V. Tsyhykalo, 3<sup>rd</sup> edition, 2018. - 524 c.

#### *Additional:*

1. Snell Richard S. Clinical Anatomy by Regions / R. S. Snell, 10<sup>th</sup> edition, 2018. - 816 p.
2. John T. Hansen. Netter's Clinical Anatomy / John T. Hansen, 3<sup>rd</sup> edition, 2014. - 546 p.: ill.
3. Farquharson's Textbook of Operative General Surgery: text book/Farguharson M., Hollingshead J., Moran B., 3<sup>rd</sup> edition, 2014. -560 p.
4. Gvalani AK. Manual of Instruments and Operative Surgery. - Paperback – 2016. – 995 p.

5. E.C. Ellison. Zollinger's Atlas of Surgical Operations / R.M. Zollinger, E.C. Ellison. - 10th ed. - McGraw-Hill, 2016. - 514 p.
6. Mulholland Michael W. Operative Techniques in Surgery/ Mulholland Michael W., Albo Daniel, 2014. – 1433 p.

### Electronic resources

1. <https://info.odmu.edu.ua/chair/anatomy/files/109/en> - materials from the course "Clinical Anatomy and Operative Surgery"
2. <https://webop.com> – online reference book and e-book on surgical operations.
3. <https://www.primalpictures.com>. – 3D anatomy resource for teachers, students, practitioners and professionals
4. <https://www.visiblebody.com> - resource of the international educational community "Visible Body"
5. <https://3d4medical.com> - the world's most advanced 3D anatomy platform

### EVALUATION

**Forms and methods of current control are carried out during training sessions and are aimed at checking the assimilation of educational material by applicants**, the level of theoretical and practical training. Forms of current control - survey, conversation, report, testing, solving situational problems, solving a clinical situational problem, demonstration of practical skills or abilities. Forms of assessment of current learning activities are standardized and correspond to the standards of answers. Assessment of the success of each topic of the discipline is carried out according to the traditional 4-point scale.

#### Criteria for current assessment in the practical lesson:

«5»	The higher education applicant has mastered the theoretical material flawlessly, demonstrates deep and comprehensive knowledge of the relevant topic, the main provisions of scientific sources and recommended literature, freely uses the acquired theoretical knowledge in the analysis of practical material, expresses his attitude to certain problems, demonstrates a high level of mastering practical skills.
«4»	The applicant for higher education has mastered the theoretical material well, knows the main aspects of primary sources and recommended literature, presents it reasonably; has practical skills, expresses his thoughts on certain problems, but makes certain inaccuracies and errors in the logic of the presentation of theoretical content or in the analysis of practical content.
«3»	The higher education applicant has mainly mastered the theoretical knowledge of the topic, is guided by primary sources and recommended literature, but

	answers unconvincingly, confuses concepts, additional questions cause the student to have uncertainty or lack of stable knowledge; answering questions of a practical nature, identifies inaccuracies in knowledge, does not know how to evaluate facts and phenomena, connect them with future activities;
«2»	The applicant for higher education has not mastered the educational material of the topic, does not know scientific facts, definitions, is almost not oriented in primary sources and recommended literature, there is no scientific thinking, practical skills are not formed.

**Form and methods of final control:** the test is given to an applicant who has completed all sections of the educational program of the elective discipline, took an active part in seminars, has an average current grade of at least 3.0 and has no academic debt. *The possibility and conditions for obtaining additional (bonus) points* are not provided.

**Independent work of applicants:** The content of independent work is determined by the working curriculum of the discipline and the teacher's methodological recommendations. A higher education applicant is also recommended for independent study of relevant scientific literature and periodicals. Methodological support for independent work of teachers provides means of self-control (tests, a package of control tasks).

### **COURSE POLICY**

The policy of the discipline complies with the rules established by the Regulations on Academic Integrity and Ethics of Academic Relations at the Odessa National Medical University, in accordance with the Code of Academic Ethics and Relations of the University Community of the Odessa National Medical University, Regulations on the Prevention and Detection of Academic Plagiarism in Research and Educational Work of Higher Education Applicants, Scientists and Teachers of Odessa National Medical University

**Discipline requirements:** mandatory attendance at classroom classes, active participation in the discussion of issues, preliminary preparation for classes with the help of teaching aids and basic literature, high-quality and timely performance of tasks for independent work, participation in all types of control (current control, control of the SRS, final control).

Observance of academic integrity involves: independent performance of all types of work, tasks, forms of control provided for by the work program of this discipline;

- references to sources of information in the case of using ideas, developments, statements, information;
- compliance with the legislation on copyright and related rights;
- providing reliable information about the results of their own educational (scientific) activities, research methods used and sources of information.

Unacceptable in educational activities for participants in the educational process are:

- the use of family or official ties to obtain a positive or higher grade in the exercise of any form of control over learning outcomes or preferences in scientific work;
- use of prohibited auxiliary materials or technical means (cheat sheets, notes, micro-headphones, phones, smartphones, tablets, etc.) during control measures;
- passing the procedures for monitoring the results of training by fictitious persons.

For violation of academic integrity, applicants may be held accountable for the following academic liability:

- decrease in the results of the assessment of the test, grade in the classroom, test, etc.;
- repeated assessment (test, test, etc.);
- appointment of additional control measures (additional individual tasks, tests, tests, etc.);
- conducting an additional check of other works authored by the violator.

**Deadline & Retake Policy:**

Absences from classes for unreasonable reasons are worked out according to the schedule for the teacher on duty. Absences for valid reasons are worked out according to an individual schedule with the permission of the dean's office.

To increase the average score in the discipline, the current grades "3" or "4" are not retaken. An applicant who is late for class can attend it, but if the teacher put "absent" in the journal, he must work it out in the general order.

**Behavior in the classroom:** Higher education students must watch their appearance, watch their language, and avoid the use of obscene words. Inadmissible familiarity, rudeness, disrespect in communication with your interlocutor, indecent behavior in any form. It is strictly forbidden to use narcotic and toxic substances. It is not allowed to drink alcoholic and low-alcohol beverages or to be in a state caused by them, at any time on the territory of the educational institution. Take care of the material and technical base and educational literature of the educational institution.