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Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
RUDN University

Institute of Medicine

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

**PATHOLOGICAL ANATOMY – PATHOLOGICAL ANATOMY OF THE
HEAD END NECK**

course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

**The course instruction is implemented within the professional education
programme of higher education:**

31.05.03 Dentistry

higher education programme profile/specialisation title

2022-2023

1. COURSE GOAL(s)

The goal of the course "**Pathological Anatomy - Pathological Anatomy of the Head and Neck**" is to equip students with the knowledge about the structural foundations of diseases, to study the most typical, characteristic changes at the macro- and microscopic levels in order to comprehend the theoretical foundations of medicine, a more in-depth study of the clinic and the use of the acquired knowledge in the work of a doctor wide profile.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Possible wording

1) Mastering the course (module) "Pathological Anatomy-Pathological Anatomy of the Head and Neck" is aimed at the development of the following competences /competences in part: **GPC-5.8; GPC-5.9.; GPC-9.3; PC-1.5.**

Table 2.1. List of competences that students acquire through the course study

| Competence code | Competence descriptor | Competence formation indicators (within this course) |
|------------------------|---|---|
| GPC-5 | Able to conduct an examination of the patient in order to establish a diagnosis when solving professional problems | GPC-5.8. Performs differential diagnostics with other diseases/conditions, including urgent ones. |
| | | GPC-5.9. Establishes a diagnosis based on the current international statistical classification of diseases and health-related problems. |
| GPC-9 | Able to assess morphofunctional, physiological states and pathological processes in the human body for solving professional tasks | GPC-9.3. Determines morphofunctional, physiological states and pathological processes of the human body. |
| PC-1 | Capable of conducting a patient examination in order to establish a diagnosis. | PC-1.5. Establishes a preliminary / final diagnosis based on the patient's examination, laboratory and instrumental data. |

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

| Competence code | Competence descriptor | Previous courses/modules* | Subsequent courses/modules* |
|-----------------|---|--|--|
| GPC-5 | Able to conduct an examination of the patient in order to establish a diagnosis when solving professional problems | Internal diseases | Dermatovenereology; Neurology; Ophthalmology; Obstetrics; Pediatrics; Gnathology and functional diagnostics of the temporal mandibular joint; Dental prosthetics (simple prosthetics); Prosthetics in the complete absence of teeth; Dental prosthetics (complex prosthetics); Pediatric maxillofacial surgery; Maxillofacial prosthetics; Children's dentistry; Orthodontics and children's prosthetics; Emergency conditions in outpatient dental practice; Medical genetics in dentistry; Cariesology and diseases of hard tissues of teeth; Endodontics; Modern endodontics; Gerontostomatology and diseases of the oral mucosa; Periodontology. Practice Assistant dentist (therapist); Assistant dentist (orthopedist); Assistant dentist (children's); State final certification Preparation for and passing the state exam; State exam (computer testing); State exam (interdisciplinary interview) |
| GPC-9 | Able to assess morphofunctional, physiological conditions and pathological processes in the human body for solving professional tasks | Biological chemistry - Biochemistry of the oral cavity; Human anatomy - The anatomy of the head and neck. Histology, Embryology, and Cytology - Oral Histology. Normal physiology, physiology of | Ophthalmology; Forensic medicine; Midwifery; Children's dentistry; Orthodontics and children's prosthetics; Medical rehabilitation; Practice Assistant to a dentist (children's); Assistant to a dentist (general |

| Competence code | Competence descriptor | Previous courses/modules* | Subsequent courses/modules* |
|-----------------|--|---|--|
| | | the maxillofacial region; Microbiology, virology - Oral microbiology. Pathophysiology - Pathophysiology of the head and neck. Medical Elementology; Bioelements in medicine; Topographic anatomy and operative surgery of the head and neck | practitioner), including research work State final certification Preparation for and passing the state exam; State exam (computer testing); State exam (interdisciplinary interview) |
| PC-1 | Capable of conducting a patient examination in order to establish a diagnosis. | Immunology, clinical immunology; Radiation diagnostics; Life safety | Gnatology and functional diagnostics of the temporal mandibular joint; Prosthetics (simple prosthetics); Prosthetics in the complete absence of teeth; Dental prosthetics (complex prosthetics); Children's maxillofacial surgery; Maxillofacial prosthetics; Children's dentistry; Orthodontics and children's prosthetics; Medical genetics in dentistry; Medical rehabilitation; Oncostomatology and radiation therapy Practice Assistant to a dentist (therapist); Assistant to a dentist (orthopedic surgeon); Assistant dentist (children's); Assistant to a dentist (general practitioner), including research work State final certification Preparation for and passing the state exam; State exam (computer testing); State exam (interdisciplinary interview) |

* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 4 credits (144 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering (**full-time training**)*

| Type of academic work | | TOTAL, academic hours | Semester (s) | |
|---|----------------|-----------------------------|--------------|-----------|
| | | | 5 | 6 |
| <i>Contact academic hours</i> | | 105 | 51 | 54 |
| including: | | | | |
| Lectures (LC) | | - | - | - |
| Lab work (LW) | | 105 | 51 | 54 |
| Seminars (workshops/tutorials) (S) | | - | - | - |
| <i>Self-studies</i> | | 21 | 21 | |
| <i>Evaluation and assessment (exam/passing/failing grade)</i> | | 18 | | 18 |
| Course workload | academic hours | 144 | 72 | 72 |
| | credits | 4 | 2 | 2 |

* To be filled in regarding the higher education programme correspondence training mode.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

| Course module title | Course module contents (topics) | Academic activities types |
|--|---|---------------------------|
| Module 1 Pathanatomy of cells and tissues. | Topic 1.1. Reversible cell damage. Pathology of protein metabolism. Pathology of fat and mineral metabolism. | LW |
| | Topic 1.2. Violation of pigment metabolism. | LW |
| | Topic 1.3. Irreversible cell damage. Necrosis. Apoptosis. | LW |
| Module 2 Pathanatomy of typical pathological processes. | Topic 2.1. Circulatory disorders. Shock. Thrombosis. Embolism. | LW |
| | Topic 2.2. Atrophy. Hypertrophy. Regeneration. Types of tissue healing. Immune damage to organs. | LW |
| | Topic 2.3. Exudative inflammation. Productive inflammation. | LW |
| Module 3 Pathanatomy of tumors. | Topic 3.1. Tumors from the epithelium. | LW |
| | Topic 3.2. Tumors of mesenchymal and mesodermal origin. | LW |
| Module 4 Pathanatomy of blood and bone marrow cells. | Topic 4.1. Hemoblastosis. | LW |
| | Topic 4.2. Anemia. | LW |
| Module 5 Pathanatomy of diseases of the cardiovascular system. | Topic 5.1. Atherosclerosis. Coronary heart disease. Hypertension. | LW |
| | Topic 5.2. Rheumatic diseases. Heart defects. | LW |
| Module 6 | Topic 6.1. Kidney diseases. | LW |

| Course module title | Course module contents (topics) | Academic activities types |
|--|---|---------------------------|
| Pathanatomy of diseases of internal organs. | Topic 6.2. Liver diseases. Diseases of the gastrointestinal tract. | LW |
| Module 7 Pathanatomy of infectious diseases. | Topic 7.1. Viral infections (influenza, measles, HIV). | LW |
| | Topic 7.2. Bacterial infections (diphtheria, scarlet fever, bronchitis, pneumonia). | LW |
| | Topic 7.3. Specific diseases (tuberculosis, sarcoidosis, syphilis, leprosy, scleroma) and mycoses. | LW |
| | Topic 7.4. Quarantine infections (plague, smallpox, cholera, anthrax). | LW |
| | Topic 7.5. Sepsis. | LW |
| Module 8 Pathanatomy of orofacial pathology. | Topic 8.1. Tumors and tumour-like formations of the scalp and neck. | LW |
| | Topic 8.2. Pathology of the oral mucosa and lips. | LW |
| | Topic 8.3. Non-tumor lesions of the salivary glands. | LW |
| | Topic 8.4. Tumors of the salivary glands. | LW |
| | Topic 8.5. Pathology of hard tooth tissues, pulp and periapical tooth tissues. | LW |
| | Topic 8.6. Periodontal diseases. | LW |
| | Topic 8.7. Diseases of the jawbones. | LW |
| | Topic 8.8. Odontogenic infection. | LW |

* - to be filled in only for **full**-time training; *LC* - lectures; *LW* - lab work; *S* - seminars.

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

| Type of academic activities | Classroom equipment | Specialised educational / laboratory equipment, software, and materials for course study (if necessary) |
|-----------------------------|--|--|
| Lab work (208) | An auditorium for conducting laboratory work, individual consultations, routine monitoring and intermediate certification, equipped with a whiteboard, a set of specialized furniture and equipment (Dell Optiplex 3080 Micro Mini PC, LG 49UK6200 TV). Software: Microsoft products (OS, office suite, including Office 365). | Museum of macro-preparations for various types of human pathology; A set of micro-preparations for various types of pathology; Binocular microscopes for studying micro-preparations; Tables for various types of pathology. |
| Seminar (214) | An auditorium for conducting seminar-type classes, group and individual consultations, ongoing monitoring and intermediate certification, equipped with a graphite board, a set of specialized furniture and technical multimedia presentation tools (NEC | |

| Type of academic activities | Classroom equipment | Specialised educational / laboratory equipment, software, and materials for course study (if necessary) |
|-----------------------------|---|---|
| | NP210 projector, Asus P-M740 laptop). Software: Microsoft products (OS, office suite, including Office 365). | |
| Seminar (216) | An auditorium for conducting seminar-type classes, group and individual consultations, ongoing monitoring and intermediate certification, equipped with a graphite board, a set of specialized furniture and technical multimedia presentation tools (NEC VT45 1000 ANSI multimedia projector). | |
| Seminar (218) | An auditorium for conducting seminar-type classes, group and individual consultations, ongoing monitoring and intermediate certification, equipped with a set of specialized furniture and technical multimedia presentation tools (NEC VT59 projector). | |
| Self-studies | Classroom for self-study of students (can be used for consultations), equipped with a set of specialized furniture and a graphite board. | |

* The premises for students' self-studies are subject to **MANDATORY** mention

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Babichenko I. I., Ivina A. A., Vasiliev A.V., Tsymbalist N. S. Guide to laboratory classes in pathological anatomy in the specialty "Dentistry". Moscow: RUDN University, 2020. - 293 p.
2. Ivina A. A., Kudryavtseva L. V., Kudryavtsev G. Yu. Private forms of cancer : cancer of lungs, stomach, uterus, ovaries, breast [Electronic resource]: Educational and methodical manual for practical training in pathological anatomy. Moscow: RUDN Publishing House, 2019. - 40 p.
http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=478309&idb=0
3. Ivina A. A., Kudryavtseva L. V., Kudryavtsev G. Yu. Parasitic diseases: malaria, amoebiasis, schistosomiasis, leishmaniasis, trypanosomiasis, echinococcosis [Electronic resource]: Educational and methodical manual for practical training in pathological anatomy. Moscow: RUDN Publishing House, 2019. - 28 p. - ISBN 978-5-209-08941-4.
http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=478308&idb=0

- Ivina A. A., Kudryavtseva L. V., Kudryavtsev G. Yu. Immunopathological processes [Electronic resource]: Educational and methodical manual for practical training in pathological anatomy. Moscow: RUDN Publishing House, 2019. - 32 p.
http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=478307&idb=0

Additional readings:

Electronic full-text materials:

- Pathologic anatomy [Electronic resource]: Textbook / A. I. Strukov, V. V. Serov; Edited by V. S. Paukov. - 6th ed., reprint. Moscow: GEOTAR-Media, 2015, 880 p. (in Russian).
http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=456496&idb=0

Printed publications:

- Chernobay G.N. pathological anatomy of the orofacial region of the head and neck. Textbook / GBOU VPO KemGMA of the Ministry of Health and Social Development of Russia. - KemGMA, 2011. - 118 p.
- Chumakov A.A. Orofacial pathology. Textbook / Edited by prof. O.V. Zairati. M.: MGMSU, 2004. - 340 p.: ill.
- Babichenko I.I., Ivina A.A., Kharchenko N.M. Brief description of the main pathological processes. Specialty "Medicine". - M.: Publishing House of RUDN University, 2014. - 47 p.
- Babichenko I.I., Ivina A.A. Dictionary of basic pathoanatomical terms. Specialty "Medicine". - M.: Publishing House of RUDN University, 2014. - 48 p.
- Gribunov Yu.P., Rogov K.A., Shestakova I.N., Ivina A.A. Basic principles of registration of the final clinical and pathoanatomical diagnoses. - M.: Publishing house of RUDN University, 2015.- 19 p.
- Babichenko I.I., Vladimirtseva A.L., Kovyazin V.A., Kharchenko N.M. Guide to laboratory studies in pathological anatomy. M.: RUDN, 2008. - 249 p.
- Vladimirtseva A.L. parasitic diseases. Educational and methodical manual for a practical lesson in pathological anatomy. - M.: RUDN, 2009. - 31 p.
- Gribunov Yu.P., Shestakova I.N., Babichenko I.I. immunopathological processes. Educational and methodical manual for a practical lesson in pathological anatomy. - M.: RUDN, 2009. - 23 p.
- Zayratyants O.V. and others. Pathological anatomy: Atlas. - M: GEOTAR-Media, 2009. - 472 p.
- Zairatyants O.V., Kaktursky L.V. Formulation and comparison of clinical and pathoanatomical diagnoses. Handbook. - 2nd ed., revised. and add. - M.: LLC Medical Information Agency, 2011.-576s.
- Microscopic technique: Guide / Ed. D.S. Sarkisov and Yu.L. Perov. - M.: Medicine, 1996. - 544 p.
- Pathological diagnostics of human tumors: A guide in 2 volumes / Ed. N.A. Kraevsky, A.V. Smolyannikov, D.S. Sarkisov. - M.: Medicine, 1993.
- Sapozhnikov A.G., Dorosevich A.E. Histological and microscopic technique: A guide. - Smolensk: SAU, 2000. - 476s.

14. Serov V. Methods for verifying a morphological diagnosis // Vrach. - 2000. - No. 12. - P.22-23.
15. M. A. Paltsev, V. L. Kovalenko, and N. M. Anichkov, Russ. Guide to the biopsy-sectional course. - M.: Medicine, 2002. - 256 p.: ill.
16. Brandwein, M. S. (2017). Textbook of Head and Neck Pathology: Volume 1: Nose, Paranasal Sinuses, and Nasopharynx (1st ed. 2016 ed.). Springer. <https://doi.org/10.1007/978-3-319-33323-6>
17. Brandwein-Weber, M. S. (2018). Textbook of Head and Neck Pathology: Volume 2: Mouth, Oropharynx, and Larynx (1st ed. 2018 ed.). Springer. <https://doi.org/10.1007/978-3-319-76106-0>
18. Cardesa, A., Slookweg, P. J., Gale, N., & Franchi, A. (2017). Pathology of the Head and Neck (2nd ed. 2016 ed.). Springer. <https://doi.org/10.1007/978-3-662-49672-5>
19. Range, E. D., & Jiang, "X. (2019). Practical Head and Neck Pathology: Frequently Asked Questions (Practical Anatomic Pathology) (1st ed. 2019 ed.). Springer. <https://doi.org/10.1007/978-3-030-10623-2>
20. Volavšek, M. (2016). Head and Neck Pathology (Encyclopedia of Pathology) (1st ed. 2016 ed.). Springer. <https://doi.org/10.1007/978-3-319-28618-1>

Internet-(based) sources:

1. Electronic libraries with access for RUDN students

1. -RUDN University Electronic Library System-RUDN [University Electronic Library System](http://lib.rudn.ru/MegaPro/Web) <http://lib.rudn.ru/MegaPro/Web>
 - EBS "University Library online" <http://www.biblioclub.ru>
 - EBS Urite <http://www.biblio-online.ru>
 - EBS "Student's consultant" www.studentlibrary.ru
 - EBS "Lan" <http://e.lanbook.com/>
 - EBS "Troitsky Bridge"
 - Full collection of Cambridge University Press journals <https://www.cambridge.org/core>
 - Journals, published by Nature Publishing Group <http://www.nature.com/siteindex/index.html>
 - Oxford Journals, a complete collection of journals <https://academic.oup.com/journals/>
 - Archive of scientific journals published by SAGE Publications <http://arch.neicon.ru/xmlui/handle/123456789/2757634/browse?type=source>
 - Science online, American Association for the Advancement of Science (AAAS) <http://science.sciencemag.org/content/by/year>
 - ScienceDirect (ESD), «FreedomCollection», ИД "Elsevier" <http://www.sciencedirect.com/>
 - Electronic resources of Springer publishing house <https://rd.springer.com/>
 - Taylor & Francis journals <https://www.tandfonline.com/>
 - Thieme <https://science-of-synthesis.thieme.com/>
 - Wiley Online Library - a multidisciplinary collection of journals <http://www.wileyonlinelibrary.com/>

2. Databases and search engines:

- Discipline page in TUIS RUDN University:
<https://esystem.rudn.ru/course/view.php?id=2079>
- U.S. National Library of Medicine National Institutes of Health:
<http://www.ncbi.nlm.nih.gov/pubmed/>
- Scientific electronic library:
<http://elibrary.ru/defaultx.asp>
- Website of the Russian Society of Pathologists
<http://patholog.ru>
- Website of the Royal College of Pathologists
<https://www.rcpath.org/>
- Pathological Anatomy Information Database
<https://www.pathologyoutlines.com/>
- Online courses archive of video lectures on pathological anatomy Medical School Pathology <https://www.medicalschoolpathology.com/>
- Online Pathological Anatomy Laboratory of the University of Utah
<https://webpath.med.utah.edu/>
- Information online resource on pathological anatomy
<http://www.pathguy.com/>
- WebPathology Slides Database
<https://www.webpathology.com/>
- Micropreparations Juan Rosai's Collection
<https://www.rosaicollection.org/>

Training toolkit for self- studies to master the course *:

1. The set of lectures on the course Pathological Anatomy - Pathological Anatomy of the Head and Neck"
2. The laboratory workshop (if any).on the course Pathological Anatomy - Pathological Anatomy of the Head and Neck"
3. The guidelines for writing a course paper / project (if any) on the course Pathological Anatomy - Pathological Anatomy of the Head and Neck"

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

The assessment toolkit and the grading system* to evaluate the competences formation level (**GPC-5.8; GPC-5.9.; GPC-9.3; PC-1.5**) upon the course study completion are specified in the Appendix to the course syllabus.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

DEVELOPERS:

Head of the Department of
pathological Anatomy of MI

position, department

signature

I. I. Babichenko

name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

of Pathological Anatomy

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