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***Federal State Autonomous Educational Institution of Higher Education
«Peoples Friendship University of Russia»
RUDN University***

Medical Institute

Recommended by MCCN

COURSE SYLLABUS

OCCUPATIONAL DISEASES

Recommended for education /specialty

31.05.01 Medicine

The development of the discipline is carried out within the framework of the implementation of the main professional educational program of higher education GT HE:

Medicine

2024

1. COURSE GOAL(s)

The discipline "Occupational diseases" is included in the program of the specialty 31.05.01 "**Medicine**" and is studied in the 9th semester of 5 the course. The discipline is implemented by the Department of Hospital Therapy with courses in endocrinology, Hematology and clinical laboratory diagnostics. The discipline consists of 4 sections and 4 topics and is aimed at studying the etiology, pathogenesis, clinic, differential diagnosis, treatment of diseases that develop when exposed to occupational hazards, measures to ensure favorable and safe working conditions, industrial ecology in order to prevent the development of occupational diseases.

The goal of the discipline "Occupational diseases" is to acquire students' knowledge in occupational pathology, the ability to correctly make a diagnosis, to make a differential diagnosis with similar diseases, to determine the clinical and labor prognosis of a particular patient, to acquire knowledge about modern methods of examination, treatment and prevention of occupational diseases.

2. REQUIREMENTS for LEARNING OUTCOMES:

Learning outcomes of the discipline "**Occupational diseases**" is aimed at the formation of the following competencies:

Table 2.1 The list of competencies formed by students during the learning of the discipline (results of the learning of the discipline)

| Competence | Competence Name | Indicator of Competence Achievement |
|------------|---|--|
| PC-2 | Being able to examine a patient in order to determine a diagnosis | PC-2.1. Mastering the skills to collect complaints, anamnesis of the patient's life and disease, as well as conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation). PC-2.2. Being able to make a preliminary diagnosis and make up a plan of laboratory and instrumental examinations of a patient. PC-2.3. Being able to refer a patient to a laboratory examination in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the medical care standards. PC-2.4. Being able to refer a patient to an instrumental examination in case there are medical indications in accordance with the current procedures for the |

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|------|---|--|
| | | <p>provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-2.5. Being able to refer a patient to consult with a medical specialist if there is a medical indication in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-2.6. Being able to refer a patient to be provided with specialized medical care in an inpatient setting or in a day hospital in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-2.7. Being able to carry out differential diagnosis with other diseases/conditions, including the urgent ones, as well as to make a diagnosis taking into account the current international statistical classification of diseases and problems related to health (ICD).</p> |
| PC-3 | Being able to prescribe treatment and monitor its efficacy and safety | <p>PC-3.1. Being able to develop a treatment plan for a disease or condition taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-3.2. Being able to prescribe medicinal drugs, medical devices and medical nutrition taking into account the diagnosis, age and clinical picture of the disease and in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the</p> |

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| | | standards of medical care. PC-3.3. Being able to prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care. |
| PC-4 | Being able to implement and to monitor the effectiveness of the patient's medical rehabilitation, including in the implementation of individual rehabilitation or rehabilitation programs for the disabled, to assessment the patient's ability to carry out work activities | PC-4.1. Being able to carry out an examination of temporary disability and work as part of a medical commission carrying out an examination of temporary disability; PC-4.2 Being able to prepare the necessary medical documentation for the implementation of medical and social expertise in federal state institutions of medical and social expertise; PC-4.7 Being able to refer a patient with a persistent impairment of body functions due to diseases, consequences of injuries or defects to medical and social examinations; |
| PC-5 | Being able to conduct and to monitor the effectiveness of measures for the prevention and formation of a healthy lifestyle and sanitary and hygienic education of the population | PC-5.11 Able to evaluate the effectiveness of preventive work with patients; |

3. THE PLACE OF DISCIPLINE IN THE STRUCTURE GT HE

Discipline “*Occupational diseases*” is the main part of the block *Block 1* of curriculum.

Within the framework of the educational program, students also learn other disciplines and/or practices that contribute to achieving the planned results of mastering the discipline “**Occupational Diseases**”.

Table 3.1 The list of components of the GT HE, contributing to the achievement of the planned results of the development of the discipline

| Code | Name of the competence | Previous discipline | Subsequent discipline |
|------|------------------------|---------------------|-----------------------|
|------|------------------------|---------------------|-----------------------|

| | | | |
|-------|---|---|--|
| PC-2 | Ability to examine a patient to establish a diagnosis | <p><i>Medical Enzymology**</i>; <i>Molecular genetics in practical biology and medicine**</i>; <i>Ophthalmology</i>; <i>Pro-paedeutics of internal diseases</i>; <i>Medical Elementology</i>; <i>Obstetrics and gynecology</i>; <i>Immunology</i>; <i>Otorhinolaryngology</i>; <i>General Surgery</i>; <i>Faculty therapy</i>; <i>Faculty Surgery</i>; <i>Microbiology, virology</i>; <i>Pathophysiology, clinical pathophysiology</i>; <i>Neurology, medical genetics, neurosurgery</i>; <i>Evidence-based medicine</i>; <i>Radiation diagnostics</i>; <i>Dermatovenerology</i>; <i>Molecular genetic methods</i>; <i>Pathological anatomy, clinical pathology anatomy</i>; <i>Urology</i>; <i>Surgical practice : Assistant surgeon ;</i> <i>Obstetric and gynecological practice: assistant to a gynecologist</i>;</p> | <p>Telemedicine; General medical skills; Urgent conditions; Obstetrics and gynecology; Infectious diseases; Pediatrics; Maxillofacial surgery; Sectional course; Endocrinology; Psychiatry, medical psychology; Phthisiology; Outpatient therapy; Anesthesiology, intensive care, intensive care; Hospital surgery, pediatric surgery; Oncology, radiation therapy; Traumatology, orthopedics; Reproductive health; Cardiology in Quests; Hospital therapy; Endoscopic urology; Allergology; Practice of obstetric and gynecological profile: assistant obstetrician; General medical practice: Assistant pediatrician</p> |
| PC -3 | Ability to prescribe treatment and monitor its effectiveness and safety | <p><i>Introduction to Nutritionology**</i>; <i>Ophthalmology</i>; <i>Obstetrics and gynecology</i>; <i>Otorhinolaryngology</i>; <i>Faculty therapy</i>; <i>Pharmacology</i>; <i>Faculty Surgery</i>; <i>Fundamentals of</i></p> | <p>Telemedicine; <i>Outpatient Cardiology**</i>; Obstetrics and gynecology; Infectious diseases; Clinical Pharmacology; Pediatrics; Maxillofacial surgery; Endocrinology; Psychiatry, medical psychology; Phthisiology; Outpatient therapy;</p> |

| | | | |
|------|--|--|---|
| | | <i>Integrative medicine**; Neurology, medical genetics, neurosurgery; Dermatovenerology; The basics of therapeutic nutrition; Clinical Trials**; Urology; Surgical practice : Assistant surgeon ; Practice of obstetric and gynecological profile: assistant to a gynecologist;</i> | Hospital surgery, pediatric surgery; Oncology, radiation therapy; Traumatology, orthopedics; Reproductive health; Cardiology in Quests; Geriatrics and palliative medicine; Hospital therapy; Endoscopic urology; Allergology; Obstetric and gynecological practice: assistant obstetrician; General medical practice: Assistant pediatrician |
| PC-4 | Being able to implement and to monitor the effectiveness of the patient's medical rehabilitation, including in the implementation of individual rehabilitation or rehabilitation programs for the disabled, to assessment the patient's ability to carry out work activities | <i>Organization of special patient care; Faculty therapy; Faculty Surgery; Public health and healthcare, health economics; Medical rehabilitation; Neurology, medical genetics, neurosurgery; Surgical practice : Assistant surgeon</i> | <i>Examination of temporary disability**; Endocrinology; Forensic medicine; Outpatient therapy; Hospital surgery, pediatric surgery; Traumatology, orthopedics; Hospital therapy;</i> |
| PC-5 | Being able to conduct and to monitor the effectiveness of measures for the prevention and formation of a healthy lifestyle and sanitary and hygienic education of the population | <i>Introduction to Nutritionology**; Ophthalmology; Propaedeutics of internal diseases; Organization of special patient care; Obstetrics and gynecology; Epidemiology; Hygiene; Neurology, medical genetics, neurosurgery; Dermatovenerology; Fundamentals of psychophysiology**; Urology;</i> | <i>Outpatient Cardiology**; Obstetrics and gynecology; Infectious diseases; Pediatrics; Endocrinology; Phthisiology; Outpatient therapy; Reproductive health; Endoscopic urology; General medical practice: Assistant pediatrician</i> |

* - filled in in accordance with the matrix of competencies and standard work HE program(me) mastering

** - elective disciplines /practices

4. VOLUME OF DISCIPLINE AND VOLUME OF TRAINING SESSIONS

The total labor intensity of the discipline "**Occupational diseases**" is 2 credits.

Table 4.1. Types of educational work by periods of mastering GT HE for FULL-time education

| Classroom training (total) | Total Hours | Semesters |
|--|-------------|-----------|
| | | 9 |
| Classroom training (total) (academic hours). | 51 | 51 |
| Including: | | |
| The lectures (L) | 0 | 0 |
| Practical (laboratory) sessions | 51 | 51 |
| Seminars (S) | 0 | 0 |
| Laboratory classes (LC) | | |
| <i>Self-study (academic hours)</i> | 18 | 18 |
| <i>Control (exam/test with assessment) (academic hours).</i> | 3 | 3 |
| Total workload (academic hours) | 72 | 72 |
| Total workload (credit units) | 2 | |

5. THE CONTENTS OF THE DISCIPLINE

5.1. The content of sections discipline (Moduls) of Academic work.

| Number of section | Name of section discipline | | Contents | Type of educational work* |
|-------------------|---|------------|--|---------------------------|
| Section 1. | Occupational diseases of respiratory system. Pneumoconiosis. | 1.1 | Introduction to the clinic of occupational diseases and its tasks. Issues of diagnostics and medical prevention. Principles of organization and conduct of medical examinations of workers | LC |

| | | | | |
|-------------------|--|------------|--|-----------|
| | | | of industrial enterprises, issues of examination of working capacity, medical examination. Pneumoconiosis, classification. Silicatoses, anthracosis, pneumoconiosis of electric welders, aluminosis, pneumoconiosis from exposure to plant dust. Berylliosis. Dust bronchitis. Professional bronchial asthma. Bronchoallergoses. | |
| Section 2. | Vibration disease. Noise sickness (chronic occupational sensorineural hearing loss). | 2.1 | Clinical picture of diseases associated with exposure to local vibration and whole-body vibration. Stage of disease, diagnosis, treatment, prevention, prognosis. | LC |
| Section 3. | Occupational diseases of the musculoskeletal system | 3.1 | Differential diagnosis of occupational diseases of the musculoskeletal system caused by physical overstrain and microtraumatization in workers of industrial enterprises and agricultural industries. | LC |
| Section 4. | Domestic poisoning | 4.1 | Classification. Methods of diagnosis. Basic clinical syndromes. General principles of emergency treatment: prevention of further contact with the poison, its absorption, excretion | LC |

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|--|--|--|--|--|
| | | | of the poison from the body, antidotes, treatment of syndromes associated with intoxication. | |
|--|--|--|--|--|

* - filled in only by FULL-time study: L- lectures; LC – laboratory classes; S- seminars

6. MATERIAL AND TECHNICAL SUPPORT OF THE DISCIPLINE:

Table 6.1. Material and technical support of the discipline:

| Type of classroom | Equipment of the classroom | Specialized educational/laboratory equipment, software and materials for the development of the discipline (if is necessary) |
|--------------------------|--|---|
| Lecture classroom | An auditorium for conducting lecture-type classes, equipped with a set of specialized furniture; a board (screen) and technical means of multimedia presentations. | Laptop and Multimedia projectors |
| Computer class | A computer classroom for conducting classes, group and individual consultations, ongoing monitoring and intermediate certification, equipped with personal computers (in the amount of 8 pcs.), a blackboard (screen) and multimedia presentation equipment. | |
| Seminar classroom | An auditorium for conducting seminar-type classes, group and individual consultations, ongoing monitoring and intermediate certification, equipped with a set of specialized furniture and multimedia presentation equipment. | Magnetic Market Board |
| Self-studies Classroom | An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to EIOS. | |

* - the audience for independent work of students is **MANDATORY!**

7. EDUCATIONAL, METHODOLOGICAL AND INFORMATIONAL SUPPORT OF THE DISCIPLINE

Basic literature:

1. Analysis of morbidity and the basis for maintaining the health of economically active groups of the population (workers of metallurgical enterprises) [Text/electronic resource] : Educational and methodical manual / I.V. Pachgin, L.V. Maksimenko, D.I. Kicha. - Electronic text data. - Moscow: RUDN Publishing House, 2015. - 59 p. - ISBN 978-5-209-06799-3: 49.84. <http://lib.rudn.ru/MegaPro2/Web/SearchResult/ToPage/1>
2. Occupational diseases [Electronic resource]: Textbook / Mukhin N.A. et al. - 2nd ed., reprint. and additional - M.: GEOTAR-Media, 2016. <http://lib.rudn.ru/MegaPro2/Web/SearchResult/ToPage/1>
3. Occupational diseases [Electronic resource]: A guide for doctors / V.V. Kosarev, S.A. Babanov. - 3rd ed. (e-mail). - M.: BINOM. Laboratory of Knowledge, 2015. - 424 p. - ISBN 978-5-9963-3015-7. <http://lib.rudn.ru/MegaPro2/Web/SearchResult/ToPage/1>
4. Occupational pathology : national guidelines / Edited by I. F. Izmerov. - Moscow: GEOTAR-Media, 2011. - 784 p. - ISBN 978-5-9704-1947-2. - Text: electronic // URL: <https://www.rosmedlib.ru/book/ISBN9785970419472.html>

Additional literature:

Electronic full-text materials:

1. Analysis of the morbidity of workers and examination of temporary disability at enterprises [Text/electronic resource]: Textbook / I.V. Pachgin, D.I. Kicha, L.V. Maksimenko. - Electronic text data. - Moscow: RUDN Publishing House, 2017. - 176 p. - ISBN 978-5-209-07689-6: 125.50.
2. Hygiene [Electronic resource] : textbook / V. I. Arkhangelsky [et al.] ; ed. Melnichenko P. I. - M. : GEOTAR-Media, 2014. - 656 p. : ill. – Access mode: <http://www.studentlibrary.ru/>
3. Arkhangelsk V. I. Hygiene and human ecology [Electronic resource] :textbook / V. I. Arkhangelsky, V. F. Kirillov. - M.: GEOTAR-Media, 2016. - 176 p. : ill. - Access mode: <http://www.studentlibrary.ru/>
4. Kiryushin V. A. Occupational hygiene [Electronic resource] : textbook /Kiryushin V. A., Bolshakov A.M., Motalova T. V. - M. : GEOTAR-Media, 2011. – Access mode: <http://www.studentlibrary.ru/>
5. Dvoretzky L. I. Interdisciplinary clinical tasks /L. I. Dvoretzky. - M.: GEOTAR-Media, 2012. - Access mode: <http://www.studentlibrary.ru/>
6. Pathological anatomy [Electronic resource] : textbook : in 2 t. t. 2 : Private pathology / edited by V.S. Paukov. - M. : GEOTAR-Media, 2016. - 528 p. : ill. - <http://www.studentlibrary.ru>
7. Textbook of Clinical Occupational and Environmental Medicine Book . Linda Rosenstock and Mark R Cullen and Carl Andrew Brodtkin and Carrie A Redlich. W.B. Saunders/ Second Edition, 2005- Pages 1285-1338/<https://doi.org/10.1016/B978-0-7216-8974-6.X5001-5>
8. Industrial and Occupational Health, second edition. S.K. Halder.2023 ISBN 13 : 9789354666469 <https://eduport-global.com/product/industrial-occupational-health50195947>

9. Handbook of Preventive and Social Medicine, Yash Pal Bedi ; Pragya Sharma. 17th Edition, 2019- 304p. ISBN 13 : 97893389261318. <https://eduport-global.com/product/handbook-preventive-social-medicine50129610>

10. Worker and Public Health and Safety. 2021. Издательство: MDPI - Multidisciplinary Digital Publishing Institute. 602 стр. ISBN: 9783036500942,9783036500959. <https://directory.doabooks.org/handle/20.500.12854/76451>

Printed publications:

1. Diagnostic and exposure criteria for occupational diseases Guidance notes for diagnosis and prevention of the diseases in the ILO List of Occupational Diseases (revised 2010) Copyright © International Labour Organization 2022/

2. Modern Occupational Diseases Diagnosis, Epidemiology, Management and Prevention by Ki Moon Bang (Author). Bentham Science Publishers (September 22, 2022)- 389 pages

3. Guidance on risk assessment at work European Commission, Directorate-General for Employment, Social Affairs and Inclusion, Publications Office, 1996.

4. Health and safety at work is everybody's business. Practical guidance for employers. European Commission Directorate-General for Employment, Social Affairs and Inclusion Unit B.3. European Union, 2016

5. "Occupational hygiene" I. N. Fedorovich, K. V. Fedorovich GEOTAR-Media, 2010. Moscow.

6. Occupational diseases - Artamonova V.G., Mukhin N.A. – Textbook, 2004

7. Labor protection and prevention of occupational diseases. [Text]: studies.manual / D. V. Marchenko. - Rostov n/A: Phoenix, 2008.

8. Clinical aspects in the expert work of a professional pathologist [Text]: [text-book.man-ual]/ V. V. Razumov, V. A. Zinchenk

9. Occupational hygiene [Text] : manual.practice. classes : studies. manual for students on spec. 060104.65 "Medico-prophylactic. the case" by discipline"Occupational hygiene" / V. A. Kiryushin, A.M. Bolshakov, T. V. Motalova. - M.: GEOTAR-Media, 2011

10. Occupational health and safety guidelines (English). Office of Environmental Affairs.Washington, D.C. : World Bank Group. <http://documents.worldbank.org/curated/en/308631492969180329/Occupational-health-and-safety-guidelines>.

11. Early Detection of Occupational Diseases. World Health Organization, Geneva, 1986

Resources of the Internet information and telecommunication network:

1. EBS RUDN and third-party EBS, to which university students have access on the basis of concluded contracts: - Electronic library system of RUDN – EBS RUDN <http://lib.rudn.ru/MegaPro/Web> - EBS "University Library online" <http://www.biblio-club.ru> - ABS Yurayt <http://www.biblio-online.ru> - EBS "Student Consultant" www.studentlibrary.ru - EBS "Doe" <http://e.lanbook.com/> - EBS "Trinity Bridge"

2. Databases and search engines:

- electronic fund of legal and regulatory and technical documentation <http://docs.cntd.ru/> - search engine Yandex <https://www.yandex.ru/> - Google search engine <https://www.google.ru/>

- bibliographic database SCOPUS <http://www.elsevierscience.ru/products/scopus/> 3. Association of Doctors and Specialists of Occupational Medicine <http://amt-oha.ru/fkr>

4. Standards of medical care (website of the Ministry of Health of the Russian Federation): 30 <https://www.rosminzdrav.ru/ministry/61/22/stranitsa-979/stranitsa-983>
5. Website of the Moscow Branch of the Society of Evidence-based Medicine Specialists <http://www.osdm.msk.ru>
6. Interregional Society of Evidence-based Medicine Specialists
7. Website of the Chief freelance therapist of the Ministry of Health and Social Development of Russia, Director of the Federal State Institution "Scientific Research Institute of Pulmonology" of the FMBA of Russia Alexander Grigoryevich Chuchalin – <http://www.institute.pulmonology.ru>
8. Russian Scientific Medical Society of Therapists - <http://www.rsmsim.ru/>
9. Interregional Society of Evidence-based Medicine Specialists. <http://www.osdm.org/index.php>
- 10 "Pubmed" - free full-text archive of biomedical and biological sciences journal of Literature of the American National Institute of the National Library of Health Medicine (NIH/NLM). <http://www.ncbi.nlm.nih.gov/pubmed>

Learning toolkits for self- studies of the discipline/ module:*

1. Methodological guidelines for the implementation and execution of control and self-studies on the discipline "Professional diseases";
 2. Questions for self-preparation of students for the class;
 3. Textbooks in electronic form on a number of studied topics are posted on the pages of the department and the staff of the Department of Hospital Therapy in the TUIS of the RUDN, as well as on local resources of the electronic library system of the RUDN.
 4. Recordings of classes are displayed in the TUIS.
 5. The preparation of notes on various sections of the course, as well as the presentation of reports at the seminar, is provided as one of the forms of self- studies.
 6. Extracurricular self- studies includes:
study of the material on the textbook, textbooks on paper and electronic media; preparation of an abstract message or presentation on a selected topic; preparation for the performance of control works and test tasks, writing a term paper (medical history).
- * - all learning toolkits for self- studies are placed in accordance with the current procedure on the discipline page in the **RUDN LMS TUIS!***

8. EVALUATION MATERIALS AND SCORE RATING SYSTEM FOR ASSESSING THE LEVEL OF COMPETENCE FORMATION IN THE DISCIPLINE

Evaluation materials and a score-rating system* for assessing the level of competence formation (part of competencies) based on the results of mastering the discipline "Occupational Diseases" are presented in the Appendix to this Work Program of the discipline.

* - OM and SRS are formed on the basis of the requirements of the relevant local regulatory act of the RUDN.

The fund of evaluation funds for the interim certification of students in the discipline "Occupational diseases".

Materials for assessing the level of development of educational material of the discipline "Occupational Diseases" including a list of competencies indicating the stages of their formation, a description of indicators and criteria for evaluating competencies at various stages of their formation, a description of assessment scales, standard control tasks, situational tasks necessary for assessing knowledge, skills, skills and experience of activities that characterize the stages of competence formation in the process of mastering the educational program; methodological materials that define the procedures for evaluating knowledge, skills, skills and experience of activities that characterize the stages of competence formation, are developed in full and are available to students on the page of the discipline in the TUIS RUDN.

DEVELOPERS:

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