

Thematic plan of seminars
in the discipline " Occupational diseases" for students of the educational program
specialist degree in the specialty/direction of training 31.05.01 General Medicine, direction
(profile) General Medicine, for the 2023-2024 academic year

№	Thematic blocks	Hours (academic)
1.	Occupational pathology as a clinical discipline. Expertise of connection of diseases with occupations. ¹ Short history of development of occupational diseases pathology. Medical facilities which deal with occupational pathologies. Conditions and reasons for developing of occupational diseases. Multiple forms of occupational diseases and classification based on ethiology. Classification of professional hazards. Specific and non-specific syndromes of occupational pathology. ² Part 1.	2
	Professional pathology as a clinical discipline. Expertise of connection of diseases with occupations. ¹ Criteria for diagnosing of occupational disease. Questions of MCE, understanding percentage of loss of ability to work. Understanding prevention of occupational diseases. Documentation of norms. Ministry of medicine of RF policy from 28th of January of 2021 N29n "Establishing procedures and norms for conducting mandatory preventional and periodical medical check ups for workers, also part of the article 4 part 213 of labour code of RF, the list of medical restrictions for continuing to work with hazardous and dangerous productions, and also occupations which require mandatory preventative and periodical medical examination." ² Part 2.	2
2.	Vibration disease. Noise sickness. ¹ Vibration disease (definition, classification, pathogenesis). Vibration disease from locally located vibration source. Vibration disease from combined impact of local and general vibration sources. Vibration disease from impact of general vibration and also of "kickbacks". Clinical symptoms, diagnosis, differential diagnostics, treatment. Labour expertise. Prevention. ² Part 1.	2
	Vibration disease. Noise sickness. ¹ Definition of noise sickness. Etiopathogenesis, clinical symptoms, diagnosis of noise disease. Treatment, prevention, ability to work expertise. ² Part 2.	2
3.	Occupational diseases which are caused by physical factors. Chronic occupational radiation disease. ¹ Definition of chronic occupational radiation disease. Pathogenesis, clinical signs, diagnosis, treatment. Labour expertise. Prevention. Diseases caused by the impact of electromagnetic fields and radio waves. Definitions, clinical signs. ² Part 1.	2
	Occupational diseases caused by physical factors. Diseases caused by changes of air/gas pressure and water pressure. ¹ Altitude sickness. Pathogenesis, clinical signs, diagnosis, treatment. Labour expertise. Prevention. Decompression disease (kesson disease). Main pathogenesis, clinical signs, treatment, prevention, labour expertise. ² Part 2.	2
4.	Pneumoconioses. ¹ Definition of lung diseases from dust. Classification of dust diseases and types of production dusts. Classification of pneumoconioses. Pathogenesis, impact of different physio-chemical properties of different kinds of dusts and other negative factors of production environments in development of different kinds of pneumoconioses. Basics of x-ray diagnostics of pneumoconioses. ² Part 1.	2
	Pneumoconioses. ¹ Silicosis. Ethiology, pathogenesis, clinical signs and x-ray signs. Clinical symptoms and complications. Last stage silicosis.	2

	Silicotuberculosis. Understanding early diagnostics, treatment and prevention. Metalloconioses. Berilliosis. Pathogenesis, clinical signs, diagnosis, treatment. Labour expertise. ² Part 2.	
	Pneumoconioses. ¹ Pneumoconioses from low-fiber dust. Asbestosis. Anthracosis. Clinical signs, diagnostics, differential diagnostics, treatment. Labour expertise. Prevention. ² Part 3.	2
5.	Occupational bronchial asthma. ¹ Understanding diseases of bronchoobstruction syndrome. Occupational bronchial asthma. Pathogenesis, impact of negative work environmental factors in development and manifestation of bronchial asthma. Classification, clinical signs. ² Part 1.	2
	Occupational bronchial asthma. ¹ Diagnosis, spirometric measurements. Treatment of bronchial asthma according to most recent recommendations. Labour expertise. ² Part 2.	2
6.	Chronic dust bronchitis. COPD of occupational ethiology. ¹ Chronic dust bronchitis. Classification. Ethiology. Pathogenesis. Clinical symptoms. Diagnostics. Complications. Treatment. Prevention. MSE, sanatorium-resort treatment and rehabilitation of patients. ² Part 1.	2
	Chronic dust bronchitis. COPD of occupational ethiology. ¹ Pathogenesis, impact of negative production work environment factors in development of COPD. Classification, clinical signs. ² Part 2.	2
	Chronic dust bronchitis. COPD of occupational ethiology. ¹ Diagnostics of occupational COPD. Spirometric meaning. Differential diagnostics of bronchial asthma and COPD. Treatment of COPD according to newest recommendations. ² Part 3.	2
7.	Diseases caused by the impact of chemical factors of the work environment. ¹ Understanding of poisons of chemical productions. Conditions under which can develop acute and chronic occupational intoxications. Categories of toxic chemicals of their impact on organism and health. Meaning of chemical structure, physical properties, ways by which chemicals get into a body and excreted, all impact on clinical signs and symptoms and intoxication. Main principals of diagnostics, antidote therapy and treatment of acute intoxications. Main principals of urgent therapy when poisoned by unknown chemical. Prevention of poisonings. ² Part 1.	2
	Diseases caused by the impact of chemical factors of the work environment. ¹ Chronic lead intoxication. Definition and general characteristics. Pathogenesis, clinical signs. Diagnosis. Treatment. Prevention. Labour expertise. Occupational intoxication by benzol, amido- and nitro- compounds of benzol. Definition and general characteristics. Pathogenesis, clinical signs. Diagnostics. Treatment. Prevention. Labour expertise. Occupational poisonings by carbon monoxide. Clinical signs, diagnostics, treatment and prevention. ² Part 2.	2
	Diseases caused by the impact of chemical factors of the work environment. ¹ Occupational mercury poisoning. Definition and general characteristics. Pathogenesis, Clinical signs. Diagnostics. Treatment. Preventions. Labour expertise. Chronic intoxication with carbon disulfide. Definition and general characteristics. Pathogenesis, clinical signs. Diagnosis. Treatment. Prevention. Labour expertise. Occupational manganese poisoning. Clinical signs, diagnosis, treatment, prevention. ² Part 3.	2
	Diseases caused by the impact of chemical factors of the work	2

	environment. ¹ Occupational poisoning by pesticides. Most commonly used pesticides. Main clinical symptoms of pesticide poisoning. Poisoning by phosphorus-organic based pesticides and chloride-organic pesticides. Clinical symptoms, diagnostics, treatment, prevention, labour expertise. ² Part 4.	
8.	Occupational oncologic diseases. ¹ Oncologic diseases of airways. Oncologic diseases of abdominal part. ² Part 1.	2
	Occupational oncologic diseases. ¹ Hemoblastoses. Skin oncologic diseases. ² Part 2.	2
9.	Diseases of the impact of biological factors. ¹ General characteristics of biological factors in production. Diseases caused by antibiotics, myco-productions and products of microbial synthesis. Viral hepatitis, tuberculosis of lungs and airways. ² Part 1.	2
	Diseases of the impact of biological factors. ¹ Occupational erysipeloid, brucellosis, occupational skin mycosis, tick-borne encephalitis, tick-borne dermatoses, anthrax. ² Part 2.	2
10.	Occupational diseases of the musculoskeletal system. ¹ Occupational diseases of the musculoskeletal system from physical labour. Chronic myofibrosis, occupational bursitis, deforming arthrosi. ² Part 1.	2
	Occupational diseases of the musculoskeletal system. ¹ Vegetative-sensory polyneuropathy of upper extremities, peripheral vegetative polyneuropathy of upper extremities. Compression mononeuropathy from functional tension (tunnel neuropathies, mononeuropathies from compression), professional dorsopathies. ² Part 2.	2
11.	Occupational diseases of skin. ¹ Contact chemical dermatitis. Allergic chemical dermatitis. Clinical signs. Diagnostics of occupational skin diseases. Labour expertise of ability to work with occupational skin diseases. Prevention of occupational dermatoses. ² Part 1.	2
	Occupational diseases of skin. ¹ Toxicodermia or toxico-allergic dermatitis. Photodermatitis. Oil folliculosis. Clinical signs. Diagnostics. Labour expertise of ability to work with occupational skin diseases. Prevention. ² Part 2.	2
	Intermediate certification	2
	Total	54

¹ -Subject

² - essential content

Considered at the meeting of the department, protocol № 10 from 29.05.2023 г.

Head of the Department



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