4th year – Facutly Therapy and occupational diseases

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| **№ п/п** | **Topic** | **Content** |
|  | Кардиология | Essential hypertension. Etiology, pathogenesis, concept, differential diagnosis, clinic, classification, principles of treatment of hypertension (prescribe). Treatment of hypertensive crisis (prescribe).  Mitral valve insufficiency. Etiology, hemodynamics, clinic.  Mitral stenosis. Etiology, hemodynamics, clinic.  Acute rheumatic fever and chronic rheumatic heart disease. Etiology, pathogenesis, main clinical forms, clinical and laboratory diagnostics of process activity, treatment.  Rheumatic myocarditis. Clinic, diagnosis criteria, differential diagnosis, treatment (write prescriptions). Ischemic heart disease. Definition, etiology, main risk factors. Clinical forms. Prevention, treatment. Ischemic heart disease. Angina pectoris, pathogenesis, classification, stress test, course, treatment (prescribe), prevention. Ischemic heart disease. Acute coronary syndrome. Concept. Classification. Acute myocardial infarction. Etiology, pathogenesis, clinic, course, treatment. Heart failure. Concept, classification, clinic of chronic heart failure. Principles of prevention and treatment (prescribe).  Aortic valve insufficiency. Etiology, hemodynamics, clinic.  Classification of rhythm disturbances (automatism, excitability, conduction). Clinic full A-V blockade and its treatment.  Atrial fibrillation and flutter. Causes, mechanisms of occurrence, clinic, treatment (write prescriptions).  Paroxysmal tachycardia. Etiology, pathogenesis, clinic, treatment (prescribe).  Extrasystole. The concept, mechanisms of occurrence, classification, clinic, treatment (write prescriptions). Complications of myocardial infarction according to the periods of the course. Medical tactics .. |
| 1. . | Pulmonology | Hospital pneumonia Etiology, clinic, treatment principles (write prescriptions).  COPD Chronic obstructive bronchitis. Etiology, pathogenesis, classification, clinic, treatment (prescribe).  Lung cancer. Classification, early diagnosis, clinic.  Bronchial asthma. Etiology, pathogenesis, classification, diagnosis of clinical and pathogenetic variants. Clinic, differential diagnosis, treatment (prescribe), treatment of an attack of bronchial asthma.  Infectious destruction of the lungs (abscess, abscessed pneumonia and lung gangrene, suppurative cyst of the lung). Exudative pleurisy. Etiology, pathogenesis, classification, clinic, treatment.  Community-acquired pneumonia. Etiology, clinic, medical tactics (write prescriptions).  Bronchiectasis. Etiology, pathogenesis, clinic, treatment.  Pneumonia. Kinds. Etiology and features of each of them. Diagnostic Methods The principles of therapy. |
|  | Nephrology | Acute glomerulonephritis. Etiology, pathogenesis, clinic, course, prophylaxis, treatment (write prescriptions).  Chronic glomerulonephritis. Etiology, pathogenesis, clinical and morphological forms, course, treatment principles.  Chronic kidney disease. Chronic renal failure. Etiology, pathogenesis classification, treatment principles (prescribe).  Pyelonephritis. Etiology, pathogenesis, clinic, treatment (write prescriptions). |
|  | Gastroenterologyt | Peptic ulcer. Etiology, pathogenesis, clinic, differential diagnosis, principles of treatment of peptic ulcer and their physiological justification (write prescriptions). Chronic gastritis. Classification, research methods, clinic, treatment (write prescriptions). Stomach cancer. Diagnosis, treatment tactics. |
|  | Hematology | B-12 and folic deficiency anemia. Causes of Vitamin B-12 and Folic Acid Deficiency Clinic, treatment (write prescriptions).  Iron-deficiency anemia. Causes of iron deficiency, clinic, treatment.  Hemolytic anemia. Classification. Differential diagnosis. Features of the clinic and the diagnosis of various types of hemolytic anemia. The principles of therapy. |
|  | Endocrinology | Diffuse toxic goiter (Graves disease). Pathogenesis, clinic, diagnosis. The basic principles of the treatment of thyrotoxicosis (prescribe).  Diabetes. Concept, types and clinic, diagnostic criteria. Complications of diabetes.  Type 2 diabetes mellitus. Etiology, pathogenesis, classification of diabetes mellitus, diagnostic criteria, clinical manifestations, diagnosis, treatment principles (write prescriptions).  Diabetes mellitus type 1. Etiology, pathogenesis, clinical manifestations, diagnosis, treatment principles  . |

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|  | General principles for the provision of medical care to patients with occupational diseases, the legal basis for the activities of a occupational diseases physician | General ideas about occupational diseases, their classification. Occupational risk. Diagnostic methods for occupational diseases. General principles of treatment and rehabilitation, basic principles of prophylaxis of patients with occupational diseases. Medical and occupational examination in occupational pathology. Legal basis for the activities of a occupational specialist, medical ethics. |
|  | Occupational diseases caused by the action of fibrogenic and toxic allergenic aerosols | General characteristics of pneumoconiosis. Basic principles for the classification of pneumoconiosis. Mechanisms of pathogenesis, clinical and instrumental diagnostics, treatment. Dust bronchitis, professional bronchial. Features of diagnosis and prevention. Issues of examination of disability in pneumoconiosis, dust bronchitis, bronchial asthma and other occupational respiratory diseases. Clinical analysis of patients. |
|  | Diseases due to harmful physical factors | Harmful effects on the body of vibration, noise, laser and electromagnetic radiation, heating and cooling microclimate, high and low atmospheric pressure. Pathogenesis, clinical course and diagnostic features of vibrational disease and occupational hearing loss. Clinical analysis of patients. |
|  | acute and chronic occupational poisoning caused by toxic substances with predominant damage to the hematopoietic system | Pathogenetic mechanisms of the formation of the main syndromes due to the action of lead, benzene and its homologues, carbon monoxide. Antidote therapy and the main types of emergency care for acute intoxication. |
|  | Acute and chronic occupational poisoning caused by toxic substances with predominant damage to the nervous system | Pathogenetic mechanisms of the formation of neurointoxications, and intoxications due to the action of pesticides. The main clinical syndromes, diagnostic methods, rational therapy and examination of disability. |
|  | Occupational diseases of the musculoskeletal and peripheral nervous system | Diseases caused by functional overstrain of the musculoskeletal system. Methods for the diagnosis and treatment of humeroscapular periarthrosis, shoulder epicondylosis, stenosing ligamentitis, myositis, cryptotreating tendovaginitis of the forearm, aseptic osteonecrosis, coordinating neurosis, polyneuropathy of the upper extremities, radiculopathy and other pathologies. |
|  | Intoxications due to the action of irritating substances | Diseases caused by the action of chlorine, hydrogen chloride, nitric oxide, sulfur dioxide, hydrogen sulfide. |
|  | Prevention of occupational diseases | General principles and methods for the prevention of occupational diseases. Medical support for work in conditions of increased professional risk. Features of mandatory medical examinations of employees. |