Speciality "General Medicine"

ACADEMIC DISCIPLINE "PEDIATRICS"
PEDIATRIC MODULE

Academic discipline outline	Features of diagnosis, additional research methods in pediatrics. Etiology, pathogenesis, clinical picture, treatment, prevention, and prognosis of common diseases of organs and systems in children of all age groups. Main methods of medical genetics. Etiology, pathogenesis, classification, and clinical signs of monogenic, chromosomal, and multifactorial diseases. Principles and methods of organizing medical genetic care. Medical genetic counseling.
Resulting skills	Specialized competence. To assess clinical symptoms, to apply methods of examining a sick child, laboratory and differential diagnostics, to formulate a clinical diagnosis, to master the principles of treatment, prevention and medical rehabilitation for diseases in children and adolescents.
Learning outcomes	A student must: **know:** the goals, objectives, structure, and organization of primary and specialized medical care for children and adolescents in outpatient and inpatient settings in the Republic of Belarus; the structure of childhood morbidity by age group in the Republic of Belarus; the International Classification of Diseases; the structure of neonatal, infant, and child mortality and ways to reduce it; characteristics of the neonatal and postnatal periods; the etiology, classification, pathogenesis, clinical presentation, diagnosis, and differential diagnosis, as well as prevention and treatment methods for common diseases in newborns, young infants, older children, and adolescents; methods for maintaining impaired and replacing lost organ and functional systems functions; established scope of examination of sick children at the stages of medical care; indications and contraindications for spa treatment; methods of outpatient rehabilitation; principles of clinical examination and rehabilitation of children; principles of medical examination; principles of medical ethics and deontology; **be able to:** communicate with patients based on an assessment of their

	age-related mental and personality characteristics, and their individual response to illness, as well as their parents' reactions; conduct preventive examinations and organize follow-up care for children and adolescents; examine a newborn, taking into account the physiological and pathological progress of pregnancy, childbirth, and the postpartum period; examine a child, taking into account their age-related characteristics (collecting anamnesis, complaints, examination, percussion, palpation, auscultation) using additional diagnostic methods; determine indications for additional diagnostic methods and perform a clinical interpretation of the data obtained; conduct differential diagnosis of diseases; consider consultations with specialist doctors when establishing a final clinical diagnosis; conduct an assessment of temporary disability due to child care and issue a certificate of incapacity for work; provide emergency medical care in cases of fainting, collapse, shock, coma, acute heart failure, stroke, acute respiratory failure, seizures, allergic reactions, trauma, poisoning, drowning, electrical injury, burns, frostbite, and bleeding in children and adolescents; administer medications appropriate to the child's needs and write prescriptions; assist in transporting newborns and children to specialized healthcare facilities; perform venipuncture, gastric lavage, intramuscular and subcutaneous injections, therapeutic and cleansing enemas, upper respiratory tract drainage, and measure blood pressure, pulse, and respiratory rate; analyze electrocardiograms, ultrasounds, computed tomography, fibrogastroduodenoscopy, spirography, pneumotachometry, and sternal puncture results; calculate an infusion therapy program and determine indications for blood transfusion; apply modern detoxification methods; perform primary wound treatment at the prehospital stage; use physiotherapy and exercise therapy methods; **master:** methods for examining newborns and healthy children of all ages; skills in organizing the feeding of premature and full-term newborns, and young children; methods for clinical examination of children with

	pathologies; skills in interpreting laboratory and instrumental diagnostic methods; skills in organizing treatment of diseases and rehabilitation of children in accordance with industry standards for examination and treatment; principles of emergency medical care; skills in conducting temporary disability assessments; skills in organizing sanitary and hygienic education to promote a healthy lifestyle
Semester(s)	7,8,9 semesters 11/12 semester - the sub-residency profile is “General Medical Practice”.
Prerequisite	Medical Biology and General Genetics Biological Chemistry Human anatomy Histology, cytology, embryology Normal physiology Pathological anatomy Pathological physiology Pharmacology Public health and healthcare
Credit value	8 credits
Academic hours	308 academic hours, of which: 203 class hours The sub-residency profile is “General Medical Practice”: 120 academic hours, of which 80 class hours
Forms of midterm attestation	Credit Examination