

**PROPAEDEUTIC PEDIATRICS
(CURRICULUM)
(Medical Faculty, the 3rd Year of Study, 2023-2024)**

Lectures: 14 hours
Practice: 62 hours
Self-works: 74 hours
Total: 150 hours

Lecture Curriculum

No	Topic	Hours
<i>Part 3. Physical and Psychomotor Development of the Children</i>		
1	Physical and psychomotor development of the children of different age groups. Principles and methods of physical development assessment in pediatric practice. Assessment of psychomotor development of a child in the context of the maturation of the nervous system. Semiotics of physical and psychomotor development disorders and main neurologic diseases in pediatric practice.	2
	<i>TOTALLY</i>	2
<i>Part 5. Skin, Subcutaneous Tissue and Musculoskeletal System of Children</i>		
2.	Anatomical and physiological peculiarities of skin, appendageal structures and subcutaneous tissue of children. Semiotics of skin and adipose tissue diseases in pediatric practice. Anatomical and physiological peculiarities of musculoskeletal system of children. Semiotics of musculoskeletal system diseases in pediatric practice.	2
	<i>TOTALLY</i>	2
<i>Part 6. Respiratory System of Children</i>		
3.	Prenatal development and congenital abnormalities of respiratory system. Anatomical and physiological peculiarities of respiratory system of children. Semiotics of respiratory system diseases in pediatric practice. Main syndromes of respiratory diseases. SARS-CoV-2 in children: clinical manifestations, emergency care, measures to prevent the spreading of respiratory disease COVID-19	2
	<i>TOTALLY</i>	2
<i>Part 7. Cardiovascular System of Children</i>		
4.	Prenatal development of cardiovascular system. Congenital heart conditions. Peculiarities of fetal circulation. Anatomical and physiological peculiarities of cardiovascular system of children. Clinical manifestation of cardiovascular system diseases in children. Semiotics of congenital and acquired heart conditions of children. Basic principles of cardiopulmonary resuscitation in pediatric practice	2
	<i>TOTALLY</i>	2
<i>Part 8. Digestive System of Children</i>		
5.	Anatomical and physiological peculiarities of digestive system of children. Semiotics of gastrointestinal diseases. Main syndromes of of gastrointestinal diseases in pediatric patients. Acute abdominal pain. Syndromes of hepatic and gall bladder diseases, bile ducts disorders, diseases of pancreas.	2
	<i>TOTALLY</i>	2
<i>Part 9. Urinary System of Children</i>		
6.	Embryogenesis and congenital malformations of urinary system Anatomical and	2

	physiological peculiarities of urinary system of children. Semiotics of main renal and bladder diseases. Syndromes of main urinary system diseases	
	TOTALLY	2
Part 14. Breast Feeding of Infants		
Part 15. Artificial and Mixed Feeding of Infants		
Part 16. Nourishment of Children Over 1 Year		
7.	Feeding of infants. Advantages of breast-feeding. Rules of introducing of complementary foods into the diet. Reasons for artificial and mixed feeding of infants. Classification and characteristics of formulas for artificial feeding of infants. Principles of rational nourishment of children over 1 yr of age. Dietary variables according to age.	2
	TOTALLY	2
	TOTAL for discipline	14

Practice Curriculum

No	Topic	Hours
Part 2. Periods of Childhood		
1	Periods of childhood: characteristics and peculiarities. Main principles of pediatric clinical interview. Methods of physical examination in pediatric practice. Peculiarities of examination of terminally ill children with limited prognosis. Moral and deontological principles in the context of incurable disease	2
2.	Peculiarities of neonatal period of childhood.	2
	TOTALLY	4
Part 3. Physical and Psychomotor Development of the Children		
3.	Physical development of the children. Techniques of anthropometry.	2
4.	Assessment of physical development in pediatric practice. Semiotics of physical development disorders.	2
5.	Assessment of psychomotor development of the children of different age groups. Semiotics of psychomotor development disorders.	2
	TOTALLY	6
Part 4. Nervous System of Children		
6.	Anatomical and physiological peculiarities of nervous system of children. Physical examination of nervous system of a child.	2
7.	Semiotics of neurologic diseases in pediatric practice. Cerebrospinal fluid studies: normal and pathological findings.	2
	TOTALLY	4
Part 5. Skin, Subcutaneous Tissue and Musculoskeletal System of Children		
8.	Anatomical and physiological peculiarities, physical examination of the skin, appendageal structures and subcutaneous tissue of a child.	2
9.	Semiotics of skin and adipose tissue diseases of children.	2
10.	Anatomical and physiological peculiarities, physical examination and semiotics of musculoskeletal system diseases in pediatric practice.	2
	TOTALLY	6
Part 6. Respiratory System of Children		
11.	Anatomical and physiological peculiarities of respiratory system of children. Physical examination of respiratory system of a child.	2
12.	Semiotics of most common respiratory diseases in pediatric practice.	2
13.	Clinical syndromes of respiratory diseases. SARS-CoV-2 in children: clinical manifestations, emergency care, measures to prevent the spreading of respiratory	2

	disease COVID-19. Laboratory and instrumental studies in pediatric pulmonary medicine. X-ray studies of main respiratory diseases in children. Spirography.	
	TOTALLY	6
Part 7. Cardiovascular System of Children		
14.	Anatomical and physiological peculiarities of cardiovascular system of children. Inspection, palpation, percussion, auscultation of cardiovascular system of a child.	2
15.	Semiotics of most common cardiovascular diseases in pediatric practice. Basic principles of cardiopulmonary resuscitation in pediatric practice	2
16.	Semiotics of congenital and acquired heart conditions. Peculiarities of ECG of the children of different age groups. ECG findings in main cardiovascular diseases of pediatric patients	2
	TOTALLY	6
Part 8. Digestive System of Children		
17.	Anatomical and physiological peculiarities of digestive system of children. Physical examination of digestive system of children (inspection, palpation, percussion, auscultation).	2
18.	Semiotics of digestive system diseases in pediatric practice.	2
19.	Main syndromes of digestive system diseases. Lab tests and instrumental investigations used for evaluation of digestive system condition in children	2
	TOTALLY	6
Part 9. Urinary System of Children		
20.	Anatomical and physiological peculiarities and physical examination of urinary system of children. Main symptoms of urinary system diseases.	2
21.	Semiotics of urinary system diseases. Syndromes of most common urinary system diseases in pediatric practice.	2
	TOTALLY	4
Part 10. Hematopoietic and Immune Systems of Children		
22.	Anatomical and physiological peculiarities of hematopoietic system of children of different age groups. Physical examination of hematopoietic system of children. Diagnostic studies in pediatric hematology. Semiotics of blood diseases in children. Anatomical and physiological peculiarities of immune system of children. Diagnostic studies for evaluation of immunodeficiency in pediatric practice. Semiotics of immune system dysfunction in children	2
	TOTALLY	2
Part 11. Endocrine System of Children		
23.	Anatomical and physiological peculiarities and physical examination of endocrine system of children. Semiotics of hypo- and hyperfunction of certain endocrine glands.	2
	TOTALLY	2
Part 13. Examination of a Child. Getting up Patient's Medical Record		
24.	Getting up patient's medical record	2
25.	Analysis and evaluation of the written patient's medical record. Supporting of a medical record	2
26.	Control class "Physical examination of a child"	2
	TOTALLY	6
Part 14. Breast Feeding of Infants		
27.	Breast feeding of infants before introducing complementary foods. Composition of human milk. Methods for calculation of daily food amount for infants.	2
28.	Breast feeding of infants after introducing complementary foods: supplementation and complementary foods, baby's nutrients and calories requirements.	2

	TOTALLY	4
Part 15. Artificial and Mixed Feeding of Infants		
29.	Artificial feeding of infants. Classification of formulas for artificial feeding of infants. Rules and technique of formula feeding. Criteria of formula feeding efficiency Mixed feeding of infants. Patterns of mixed feeding of infants. Supplementation and complementary foods in infants artificial and mixed feeding. Formula-fed and mixed-fed baby's nutrients and calories requirements.	2
	TOTALLY	2
Part 16. Nourishment of Children Over 1 Year		
30.	Principles of rational nourishment of children over 1 yr of age.	2
	TOTALLY	2
31.	Differential credit	2
	TOTAL for discipline	62

Curriculum of Self-works

No	Topic	Hours	Control
Part 1. Pediatrics as a science about a healthy and a sick child.			
1.	The scope and history of Pediatrics. Main stages of development of Pediatrics in Ukraine. Patterns of health care in Ukraine	2	Final control
	TOTALLY	2	
Part 2. Periods of Childhood			
1.	Peculiarities of examination of terminally ill children with limited prognosis. Moral and deontological principles in the context of incurable disease.	2	During classes
2.	Taking care of the newborn infant	2	
	TOTALLY	4	
Part 3. Physical and Psychomotor Development of the Children			
1.	Physical development of preterm children.	1	During classes
2.	Medical and social problems of obesity in children.	1	
3.	Griffiths Mental Development Scales: assessment of psychomotor development of children	1	
4.	Mental retardation: severity, clinical manifestation. Taking care of the children with delayed mental development.	2	
	TOTALLY	5	
Part 4. Nervous System of Children			
1.	Laboratory and instrumental studies in pediatric neurology	2	During classes
2.	Cerebral palsy: types, clinical manifestation. Taking care of the children with cerebral palsy	2	
	TOTALLY	4	
Part 5. Skin, Subcutaneous Tissue and Musculoskeletal System of Children			
1.	Peculiarities of examination of the skin, subcutaneous tissue in infants	1	During classes
2.	Rash of infectious and noninfectious origin	2	
3.	Floppy baby syndrome	1	
	TOTALLY	4	
Part 6. Respiratory System of Children			
1.	Laboratory and instrumental studies in pediatric pulmonary medicine	2	During classes
2.	Semiotics of chronic cough in children	2	
3.	Emergency conditions in pediatric pulmonary medicine	3	
	TOTALLY	7	
Part 7. Cardiovascular System of Children			

1.	Functional tests for assessment of the condition of the cardiovascular system of a child	1	During classes
2.	Emergency conditions in pediatric cardiology. Basic principles of cardiopulmonary resuscitation in pediatric practice	3	
3.	Myocarditis in children of different age	2	
4.	ECG changes in case of conducting disorders, electrolyte disorders, hypertrophy of the heart chambers in children	3	
	TOTALLY	9	
Part 8. Digestive System of Children			
1.	Semiotics of hepatobiliary system disorders in children	2	During classes
2.	Acute abdomen syndrome, gastrointestinal bleeding in children	1	
3.	Laboratory and instrumental studies in pediatric gastroenterology. Obtaining gastric and duodenal contents, feces for diagnostic studies (main rules and technique)	3	
	TOTALLY	6	
Part 9. Urinary System of Children			
1.	Semiotics of acute and chronic renal failure	2	During classes
2.	Radiological studies in pediatric nephrology: indications, main principles. Laboratory studies in pediatric nephrology. Obtaining urine for diagnostic studies (main rules and technique)	2	
	TOTALLY	4	
Part 10. Hematopoietic and Immune Systems of Children			
1.	Clinical and hematological characteristic of hemorrhagic syndrome in children.	1	During classes
2.	Acquired immunodeficiency in children	2	
	TOTALLY	3	
Part 11. Endocrine System of Children			
1.	Thyroid gland disorders in children	1	During classes
	TOTALLY	1	
Part 12. Metabolism in Children			
1.	Caloric consumption in childhood	1	Final control
2.	Peculiarities of proteins metabolism in children	1	
3.	Peculiarities of carbohydrates metabolism in children	1	
4.	Peculiarities of fats metabolism in children	1	
5.	Peculiarities of fluid and electrolytes homeostasis in children, clinical manifestation of its disturbances. Acid-based abnormalities in children.	1	
6.	Role of vitamins for child's growth and development. Vitamins and metabolic processes	1	
	TOTALLY	6	
Part 13. Examination of a Child. Getting up Patient's Medical Record			
1.	Getting up patient's medical record. Preparation to the class "Supporting of a medical record"	6	During classes
2.	Practical skills training and preparation to the control class "Physical examination of a child"	4	
	TOTALLY	10	
Part 14. Breast Feeding of Infants			
1.	Technique of breast feeding. Nourishment and life style of lactating woman. Prevention of mastitis and hypogalactia	1	During classes

2.	Peculiarities of feeding of preterm neonates. Behaviors for optimal infant feeding: breast feeding on baby's demand	1	
	TOTALLY	2	
Part 15. Artificial and Mixed Feeding of Infants			
1.	Milk formulas for special needs of infants	1	
2.	Rules and technique of supplementary and complementary types of mixed feeding.	1	During classes
	TOTALLY	2	
Part 16. Nourishment of Children Over 1 Year			
1.	The concept of the elimination diet for children with food allergies	1	During classes
	TOTALLY	1	
1.	Preparation for the differential credit	4	Final control
	TOTAL for discipline	74	

*- updated 18.10.23

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