MEDICAL GENETICS (CURRICULUM) (Medical Faculty, the 3rd Year of Study, 2023-2024)

Lectures: 6 hours Practice: 16 hours Self-works: 23 hours Total: 45 hours

	Lecture Curriculum				
No	Торіс	Hours			
	Part 4. Monogenic diseases				
1	General characteristics of monogenic pathology. Genetics and clinical	2			
	manifestation of some monogenic diseases.				
	Part 5. Chromosomal diseases				
2.	General characteristics of chromosomal diseases. Genetics and clinical	2			
	manifestation of some chromosomal diseases				
Par	t 8. Medical and genetic counselling, prevention of hereditary pathology. Basic	principles of			
treatment of hereditary diseases					
3.	Medical and genetic counselling. Prenatal diagnostics. Screening programs.	2			
	Basic principles of treatment of hereditary diseases				
	TOTAL for discipline	6			
	Practice Curriculum				

No	Торіс	Hours
140	*	Hours
	Part 1. Heredity and pathology. The role of heredity in human pathology	-
1.	Subject and tasks of medical genetics. The role of heredity in human pathology.	2
	Part 2. Methods of the Medical Genetics	
2.	Clinical and genealogical methods. Cytogenetic and molecular genetic methods.	2
	Biochemical methods.	
	Part 3. Propaedeutic of hereditary diseases	
3.	Semiotics of hereditary diseases. Peculiarities of manifestation of hereditary	2
	diseases. Morphogenetic developmental options. Malformations.	
	Part 4. Monogenic diseases	
4.	General characteristics of monogenic pathology. Genetics and clinical manifestation	2
	of some syndromes.	
	Part 5. Chromosomal diseases	
5.	Overview of chromosomal diseases. Genetics and clinical manifestation of some	2
	syndromes.	
	Part 6. Hereditary metabolic diseases	
6.	General characteristics of hereditary metabolic diseases. Lysosomal storage diseases	2
	General characteristics of mitochondrial pathology.	
	Part 7. Diseases with hereditary predisposition	•
7.	Overview of multifactorial diseases. Determination of genetic predisposition.	2
	Measures of prevention.	
Par	t 8. Medical and genetic counselling, prevention of hereditary pathology. Basic princ	iples of
	treatment of hereditary diseases	2
8.	Programs of preconception prevention and prenatal diagnostics and neonatal	2
	screening programs. Basic principles of treatment of hereditary diseases.	
TOT	AL for discipline	16
		1

Curriculum of Self-works

	Curriculum of Self-works		
No	Торіс	Hours	Type of control
	Part 1. Heredity and pathology. The role of heredity in hum	an patho	ology
1.	The role of heredity in human pathology	1	During classes
	Part 2. Methods of the Medical Genetics	I	I
1.	Methods of medical genetics: clinical and genealogical methods,	2	During classes
	cytogenetic and molecular genetic methods, biochemical methods.		
	Part 3. Propaedeutic of hereditary diseases		
1.1	Morphogenetic developmental options. Malformations.	2	During classes
	Part 4. Monogenic diseases		
1.	Genetics and clinical manifestation of some monogenic diseases.	2	During classes
2.	Hereditary renal disease	2	
3.	Systemic skeletal dysplasia	2	
	Part 5. Chromosomal diseases		
1.	Clinical manifestation of main chromosomal diseases.	2	During classes
	Part 6. Hereditary metabolic diseases		
1.	Hereditary metabolic diseases: principles of treatment,	2	
	rehabilitation and social adaptation		
2.	General characteristics of mitochondrial diseases. Clinical	2	During classes
	manifestation, diagnosis, treatment.		
	Part 7. Diseases with hereditary predisposition		1
1.	Determination of genetic predisposition. Measures of prevention of multifactorial diseases.	2	During classes
2.	Fundamentals of ecological genetics, pharmacogenetics	2	
Pa	rt 8. Medical and genetic counselling, prevention of hereditary path	ology. Ba	sic principles of
	treatment of hereditary diseases.		•
1.	Medical and genetic counselling. Prenatal diagnostics. Screening programs.	2	During classes
	TOTAL for discipline	23	

Head of the Department of Propaedeutic Pediatrics and Medical Genetics, Professor, MD

_____ Olena LYCHKOVSKA