

Curriculum was proved by meeting
of the Department of Propaedeutic Pediatrics and Medical Genetics
on _____ (Minutes No _)

MEDICAL GENETICS
Medical Faculty, 3rd Year of Study, / 6th Semester 2023-2024
(duration of the semester: 02.01.24 – 20.05.24)

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

Lecture Curriculum

(Lecturer Assist. Prof. Shargorodska Ye.)

No	Topic	Groups	Date (III class)
1.	General characteristics of monogenic pathology. Genetics and clinical manifestation of some monogenic diseases.	1 – 7	03.01.24
2.	General characteristics of chromosomal diseases. Genetics and clinical manifestation of some chromosomal diseases	1 – 7	17.01.24
3/	Medical and genetic counselling. Prenatal diagnostics. Screening programs. Basic principles of treatment of hereditary diseases	1 – 7	31.01.24

Practice Curriculum (1 practical class = 2 hr)

No	Topic	Wednesday	Thursday	Friday
		II class: 6 gr III class: 5 gr	II class: 7 gr III class: 2 gr III class: 3 gr	II class: 4 gr II class: 1 gr
<i>Part 1. Heredity and pathology. The role of heredity in human pathology</i>				
1.	Subject and tasks of medical genetics. The role of heredity in human pathology.	03.01 10.01	04.01 11.01	05.01 12.01
<i>Part 2. Methods of the Medical Genetics</i>				
2.	Clinical and genealogical method. Cytogenetic and molecular genetic methods. Biochemical methods.	17.01 24.01	18.01 25.01	19.02 26.01
<i>Part 3. Propaedeutic of hereditary diseases</i>				
3	Semiotics of hereditary diseases. Peculiarities of manifestation of hereditary diseases. Morphogenetic developmental options. Malformations.	31.01 07.02	01.02 08.02	02.02 09.02
<i>Part 4. Monogenic diseases</i>				
4.	General characteristics of monogenic pathology. Genetics and clinical manifestation of some syndromes.	14.02 21.02	15.02 22.02	16.02 23.02
<i>Part 5. Chromosomal diseases</i>				
5.	Overview of chromosomal diseases. Genetics and clinical manifestation of some syndromes.	28.02 06.03	29.02 07.03	01.03 08.03
<i>Part 6. Hereditary metabolic diseases</i>				
6.	General characteristics of hereditary metabolic diseases. Lysosomal storage diseases General characteristics of mitochondrial pathology.	13.03 20.03	14.03 21.03	15.03 22.03
<i>Part 7. Diseases with hereditary predisposition</i>				
7.	Overview of multifactorial diseases. Determination of genetic predisposition. Measures of prevention.	27.03 03.04	28.03 04.04	29.03 05.04
<i>Part 8. Medical and genetic counselling, prevention of hereditary pathology. Basic principles of treatment of hereditary diseases</i>				
8.	Programs of preconception prevention and prenatal diagnostics and neonatal screening programs. Basic principles of treatment of hereditary diseases.	10.04 17.04	11.04 18.04	12.04 19.04

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

Olena LYCHKOVSKA

Curriculum of Self-work

No	Topic	Hours	Type of control Date
<i>Part 1. Heredity and pathology. The role of heredity in human pathology</i>			
1.	The role of heredity in human pathology	1	During classes 02.01 - 15.01
<i>Part 2. Methods of the Medical Genetics</i>			
1.	Methods of medical genetics: clinical and genealogical methods, cytogenetic and molecular genetic methods, biochemical methods.	2	During classes 16.01 – 29.01
<i>Part 3. Propaedeutic of hereditary diseases</i>			
1.	Morphogenetic developmental options. Malformations.	2	During classes 30.01 – 12.02
<i>Part 4. Monogenic diseases</i>			
1.	Genetics and clinical manifestation of some monogenic diseases.	2	During classes 13.02 – 26.02
2.	Hereditary renal disease	2	
3.	Systemic skeletal dysplasia	2	
<i>Part 5. Chromosomal diseases</i>			
1.	Clinical manifestation of main chromosomal diseases.	2	During classes 27.02 – 11.03
<i>Part 6. Hereditary metabolic diseases</i>			
1.	Hereditary metabolic diseases: principles of treatment, rehabilitation and social adaptation	2	During classes 12.03 – 25.03
2.	General characteristics of mitochondrial diseases. Clinical manifestation, diagnosis, treatment.	2	
<i>Part 7. Diseases with hereditary predisposition</i>			
1.	Determination of genetic predisposition. Measures of prevention.	2	During classes 26.03 – 08.04
2.	Fundamentals of ecological genetics, pharmacogenetics	2	
<i>Part 8. Medical and genetic counselling, prevention of hereditary pathology. Basic principles of treatment of hereditary diseases.</i>			
1.	Medical and genetic counselling. Prenatal diagnostics. Screening programs.	2	During classes 09.04 – 22.04
	<i>TOTAL for discipline</i>	23	

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_____ Olena LYCHKOVSKA