

SPECIALIST DEGREE PROGRAMME 31.05.01 ‘GENERAL MEDICINE’

COURSE "PEDIATRICS" OVERVIEW

Mode of study	full time
Faculty	International Institute of Medical Education and Cooperation
Department	Faculty Pediatric
Year	4 - 5
Semester	8 -9 – Pediatrics
Lectures	24 ac. h.
Practical classes	96 ac. h.
Self-study	123 ac. h.
Exam	9 semester - 9 ac. h.
Total workload	252 ac. h. (7 credits)

*ac. h. – academic

hours

The course is devised according to FSES HE requirements approved on February, 9, 2016 by Order of Ministry of Health, Russian Federation) and vocational functions of General Practitioner (primary care physician, district doctor) Professional Standard.

1. THE COURSE AIM AND SCOPE

The aim of discipline study

- Introduction students to children and adolescents development
- Creation of basic skills on emergency care, patient's condition determination, diagnostic and treatment of children and adolescents diseases.

The course focuses on

- Formation a view of medical ethics and deontology general principles;
- Study of physical examination methods (questioning, visual inspection, palpation, percussion, auscultation);
- Learning of development mechanism of children and adolescents diseases;
- Learning of basic symptoms and syndromes of children and adolescents diseases;
- Forming a view of diagnostic general principles in pediatrics;
- Learning of diagnostic algorithm of children and adolescents diseases and life-threatening conditions;
- Learning of treatment possibilities, prophylaxis principles and prognosis of children and adolescents diseases.

2. THE COURSE POSITION IN SPECIALIST DEGREE PROGRAMME 31.05.01 “GENERAL MEDICINE”

The course “Pediatrics” is taught in the base part block B1.B.38 of professional subjects of “General Medicine”. The background knowledge for the course has been taught in basic subjects - Propaedeutics of Internal Diseases and Faculty Therapy.

3. OUTCOME COMPETENCIES OF THE COURSE

On completing the course a student is expected to

Know:

- Etiology, pathogenesis and prevention methods of the most common diseases in children and adolescents
- Modern diseases classifications in children and adolescents
- Clinical picture, features of the course and possible complications of the most common diseases in children and adolescents
- Diagnostic methods and possibilities for children and adolescents

To be able to:

- Collect anamnesis and perform a physical examination of the patient
- Perform physical examination of child (visual inspection, palpation, percussion, auscultation, heart rate, respiratory rate and blood pressure measurement);
- Assess patient general condition, examination all organs and systems: skin, bones, muscles, nervous, respiratory, cardiovascular, digestive, urinary, hematopoietic, immune, endocrine systems, physical and neuro-psychological development,
- Formulate clinical diagnosis
- Develop treatment plan according to disease specificity
- Define indications for the chosen treatment method, determine the route, mode and dose of drugs, treatment efficacy and safety

To provide:

- Interpret the results of laboratory and instrumental investigation methods in children and adolescents
- General investigation methods in children and adolescents
- Preliminary diagnosis algorithm
- Detailed clinical diagnosis algorithm
- The main medical diagnostic and treatment actions to provide emergency care in children and adolescents

Learning outcomes	Competency developed: a description of (compulsory) threshold level	Competency code
1	2	3
A student knows: <ul style="list-style-type: none"> • Regularities of healthy person functioning and health support mechanisms • Laboratory and instrumental methods for different diseases diagnostic • Anamnesis collection method • Physical examination methods (visual inspection, percussion, palpation, auscultation) 	Readiness to collect and analyze patients complaints, their medical history, examination results, laboratory, instrumental, pathological and other studies in order to recognize the condition or establish whether the disease is present or not	PC-5
A student to be able to: <ul style="list-style-type: none"> • Collect and analyze anamnesis data • Perform physical examination (visual inspection, percussion, palpation, auscultation) • Give reason for laboratory investigation • Give reason for other investigations • Investigational results interpret • Perform primary and additional diagnostic procedures 		

<ul style="list-style-type: none"> • Provide emergency care • Use medical products according to clinical treatment protocols 		
A students provides: <ul style="list-style-type: none"> • Physical examination performing • Laboratory and other investigations planning • Consulting with physicians of other specialties 		
A student knows <ul style="list-style-type: none"> • Ethnology, pathogenesis, symptoms, diagnostic possibilities, complications and prognosis of children diseases. • X International Disease Classification 	Ability to determine in a patient the main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Health Problems, X revision	PC-6
A student to be able to: <ul style="list-style-type: none"> • Perform differential diagnosis of children and adolescents diseases 		
A students provides: <ul style="list-style-type: none"> • Differential diagnosis of diseases and urgent conditions performing • Make the diagnosis and health problems according to Classification of Diseases and Health Problems, X revision 		
A student knows <ul style="list-style-type: none"> • Modern methods of drugs, medical devices and clinical nutrition application according to modern treatment protocols • Information of drugs - action mechanisms, indications, contraindications, complications 	Ability to determine the tactics of managing patients with various nosological forms	PC-8
A student to be able to: <ul style="list-style-type: none"> • Develop treatment plan according to disease specificity, patient age and modern protocols • Prescribe drugs and diet according to disease specificity, patient age and modern protocols • Evaluate drugs efficacy and safety 		
A students provides: <ul style="list-style-type: none"> • Treatment plan development according to disease specificity, patient age and modern protocols • Drugs and diet prescribing according to disease specificity, patient age and modern protocols • Other treatment prescribing according to disease specificity, patient age and modern protocols • Drugs and diet efficacy and safety evaluation 		
A student knows: <ul style="list-style-type: none"> • Laboratory and instrumental methods for assess patient condition • Anamnesis collection method • Physical examination methods (visual inspection, percussion, palpation, auscultation) • Clinical signs of medical emergency 	Readiness to participate in the provision of emergency medical care in conditions requiring urgent medical intervention	PC-11

<ul style="list-style-type: none"> • Emergency care methods 		
A student to be able to: <ul style="list-style-type: none"> • Perform physical examination (visual inspection, percussion, palpation, auscultation) in medical emergency • Provide emergency care 		
A students provides: <ul style="list-style-type: none"> • Assess patient general condition in medical emergency • Emergency care methods • Drugs prescribing according to emergency situation and modern protocols • Medical devices application 		

4. THE COURSE “PEDIATRICS” SYLLABUS AND CONTENTS

4.1 Total workload is 7 credits (252 ac. h.)

№ п/ п	Part	Semester	Study forms (including self-study and workload in ac.h.)			Formative assessment Summative assessment (by semesters)
			Lectures	Practical classes	Self-study	
1.	Children organs and system features. Diseases in early childhood.	8	12	48	48	Q T C Ps No formal control
2.	Diseases in children and adolescents. Test control. Practical skills exam.	9	12	48	75	Q T C Ps Exam
	Total		24	96	123	Q T C Ps
	Exam	9			9	Q C
	Total		24	96	252	Q T C Ps

Q - Questions , T –Test , C – Cases, Ps – Practical skills

Head of Faculty Pediatric Department,
Dozent



Vera S. Ledneva