

**MINISTRY OF EDUCATION AND SCIENCE OF THE KYRGYZ REPUBLIC**  
**OSH STATE UNIVERSITY**  
**INTERNATIONAL MEDICAL FACULTY**  
**DEPARTMENT OF CLINICAL DISCIPLINES 2**

## *Syllabus*

<b>Specialty</b>	<b>General medicine</b>	<b>Course code</b>	<b>"560001"</b>
<b>Language</b>	<b>English</b>	<b>Subject</b>	<b>Child diseases ( faculty pediatrics)</b>
<b>Academic year</b>	<b>2025y</b>	<b>Amounts of credits</b>	<b>5cr (150h)</b>
<b>Teachers</b>	<b>Endesh kyzy Gulsara</b>	<b>Semester</b>	<b>VI</b>
<b>E-Mail</b>	<a href="mailto:gendeshkyzy@oshsu.kg">gendeshkyzy@oshsu.kg</a>	<b>Schedule according to the OSH State University application Student"</b>	<b>Monday- Sanday 08:00-17:00</b>
<b>Consultation (time/aud)</b>	<b>IMF (08:00- 17:00/405)</b>	<b>Location (building/room)</b>	<b>Dimedus 109</b>
<b>Form of study (full- time/part- time/evening/distant )</b>	<b>Full-time</b>	<b>Course type: (Basic/electiv1e)</b>	<b>Basic</b>

Osh, 2025

### **Course Description:**

**Introduction.** Faculty pediatrics belongs to the cycle of special (clinical) disciplines (SD). The study of faculty pediatrics at the department provides for consideration of the main issues of the most common pathology of childhood: etiopathogenesis of common diseases, age-related features of clinical manifestations of diseases, modern standards of diagnosis and treatment.

#### **Knowing and understanding:**

- ✓ Applies knowledge to identify the etiology, pathogenesis, clinical manifestations of the most common forms of childhood diseases.
- ✓ Determines the diagnosis and treatment of childhood diseases, based on the comprehensive principles of evidence-based medicine, according to clinical protocols.
- ✓ Applies knowledge to carry out preventive and rehabilitative measures to preserve the life and health of children.

#### **Expression of judgments:**

Formulates clinical thinking in the interpretation of laboratory and instrumental data, as well as in the diagnosis and differential diagnosis of childhood diseases.

#### **Learning skills or learning ability:**

- ✓ Uses clinical thinking in solving professional therapeutic and diagnostic activities, who is able to conduct a differential diagnostic search in pediatrics.
- ✓ Uses normative, reference and scientific literature to solve professional problems; analyze medical information based on the comprehensive principles of evidence-based medicine based on the search for solutions using theoretical knowledge, use normative, reference and scientific literature to solve professional problems;

#### **Communicative skills:**

- ✓ Has the ability to communicate information, ideas, problems and solutions to both specialists and non-specialists, observing the principles of medical deontology and medical ethics.

#### **1. The goal of the discipline**

The study of the main symptoms of the most common nosological forms of childhood diseases in their classical (typical) manifestation, mastering of modern methods for their diagnosis, treatment (with mandatory knowledge of international names of essential drugs, methods of their administration, dosages taking into account age-related characteristics) and principles of prevention, aimed at the formation of relevant competencies.

#### **2. Learning outcomes (LOD) and student competencies formed in the process of studying the discipline "Faculty Pediatrics"**

In the process of learning discipline student must achieve the following learning outcomes(LO) and will have appropriate competencies:

#### **3. Requisites of the course :**

<b>Prerequisites:</b>	biochemistry, histology, normal human anatomy, normal physiology, pathological and clinical physiology, pathological and clinical anatomy, propaedeutics of internal and children's diseases, general and clinical pharmacology.
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Post requisites:		hospital pediatrics, outpatient pediatrics, pediatric infectious diseases, and pediatric surgery.
Со-реквизиты (по необходимости)		
<p>Learning outcomes of the discipline</p> <p><b>"Childhood diseases 2 (Hospital pediatrics)"</b></p> <p>In the process of mastering the discipline, the student will achieve the following learning outcomes (LO) and will have the appropriate competencies:</p>		
RO OOP Code	Competencies	Code of LO of discipline (LOd) and its wording
LO-7 Able to apply basic knowledge in the field of diagnostic activities to solve professional problems	PC-14 - Capable and ready to make a diagnosis based on the results of biochemical and clinical studies, taking into account the course of pathology by organs, systems, and overall.	LOd -1: Capable and ready to make a diagnosis for a sick child based on the results of biochemical and clinical studies, taking into account the course of pathology by organs, systems, and the body as a whole, as well as age.
	PC-15 - Able to analyze the functioning patterns of individual organs and organ systems, use knowledge of the anatomical and physiological characteristics, basic methods of clinical-laboratory examination, and assess the functional state of the body in adults and children.	LOd -2: Able and ready to conduct and interpret interviews, physical examinations, clinical examinations, the results of modern laboratory and instrumental studies, and write a medical record for an outpatient and inpatient sick child, taking into account his/her age.
LO-8 Able to apply basic knowledge in the field of medical activity to solve professional problems	PC-17 - Able to perform basic therapeutic measures and prescribe adequate treatment for children depending on their age for the most common diseases and conditions.	POd -3: Able to perform basic therapeutic measures and prescribe adequate treatment for children depending on their age for the most common diseases and conditions.
LO-11 is able to apply basic knowledge in the field of scientific research to solve professional problems	PC-31 - Able and ready to analyze and publicly present medical information based on evidence-based medicine.	POd -4: Able and ready to analyze and present medical information based on evidence-based medicine.

#### 4. Technological chart of the discipline

#### Card of accumulation of points for the discipline "Faculty pediatrics".

Subject	Кредит	Aud. Classes	ISW/ISWT	I-module (25 балл)	II-module (25 балл)	Exam (50 marks)

		40%	60%	Aud. classes		ISW/ ISWT	CC/ SC (r)	Aud. classes		ISW/ ISWT	CC	
				lec	pr			pr				
Facul ty pedia trics	5	36	90	12	18	45/5		12	18	36/4		
Facul ty pedia trics	5	36	90	12	18	45/5		12	14	36/4		
Point Accumulation Card				4	4	8	9	4	4	8	9	
Module and exam results				(example=tcp.+r+s) before 25 / 25				(example=tcp.+r+s) before 25 / 25				50
				Pass mark = M1 + M2 25-50)								
Final grade				I = R Extra. + E								100

### 5. Calendar and thematic plan of lectures

№ weeks	Topic name	Number of hours	Points			
			visit	Test (for TC), oral, written survey	keeping a workbook	total
	1-модуль					
1.	<i>Hypo- and vitamin deficiency in children</i>	2	1	2	1	4
2.	<i>Rickets in children</i>	2	1	2	1	4
3.	<i>Acute severe and chronic eating disorder (ASED) in children</i>	2	1	2	1	4
4.	<i>Gastritis, gastroduodenitis peptic ulcer diseases in children..</i>	2	1	2	1	4
5.	<i>Diseases of the gallbladder and biliary tract in children.</i>	2	1	2	1	4
6.	<i>Iron deficiency anemia (IDA)in children.</i>	2	1	2	1	4



7.	Bronchitis and bronchiolitis in children.	2	1	2	1	4
8.	Acute pneumonia in young and older children.	2	1	2	1	4
9.	Acute rheumatic fever in children. Etiopathogenesis.	2	1	2	1	4
10.	Congenital heart defects in children	2	1	2	1	4
11.	Acute glomerulonephritis and in acute pyelonephritis children	2	1	2	1	4
12.	Helminthiases in children.	2	1	2	1	4
Total Hours / Average Current Score		24	1	2	1	8

#### 6. Calendar and thematic plan of practical classes.

№ Weeks	Topic name	Number of hours	Points			
			visit	oral, written survey (ask questions)	activity	total
1.	Hypo- and vitamin deficiency in children	2	1	2	1	4
2.	Rickets in children	2	1	2	1	4
3.	Differential diagnosis of rickets. (Vitamin D-dependent rickets type I, II, phosphate diabetes, Debre-de Toni-Fanconi syndrome, congenital bone fragility)	2	1	2	1	4
4.	Acute severe eating disorder (ASED) in children	2	1	2	1	4
5.	Chronic eating disorders in children	2	1	2	1	4
6.	Gastritis, Gastroduodenitis in children.	2	1	2	1	4
7.	PU in children.	2	1	2	1	4
8.	Diseases of the gallbladder and biliary tract in children.	2	1	2	1	4
9.	Iron deficiency anemia. Reasons. Etiology, pathogenesis. Classification. Typical clinical manifestations. Diagnostics. Differential	2	1	2	1	4

	diagnosis. Treatment.					
10.	Bronchitis ,Bronchiolitis in children. Etiopathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.	2	1	2	1	4
11.	Acute pneumonia in young children. Etiopathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.	2	1	2	1	4
12.	Acute pneumonia in older children. Etiopathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention.	2	1	2	1	4
13.	Acute rheumatic fever in children. Etiopathogenesis. Etiopathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention..	2	1	2	1	4
14	Acquired heart defects in children. Etiopathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention, medical follow.	2	1	2	1	4
15	Congenital heart defects in children. Etiopathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention, medical follow.	2	1	2	1	4
16	Acute glomerulonephritis in children. Etiopathogenesis, clinic, diagnosis, differential diagnosis, treatment, prevention, medical follow.	2	1	2	1	4
17	Acute pyelonephritis. Etiology, pathogenesis. Classification. Typical clinical manifestations. Diagnostics. Differential diagnosis. Treatment.	2	1	2	1	4
18	Helminthiasis in children.	2	1	2	1	4
	<b>Total Hours / Average Current Score</b>	36	1	2	1	8
	<b>Exam, Current control</b>					50



7. Calendar and thematic plan of ISW .

1	Hypo- and vitamin deficiency in children	Make the video about this topic and describe	6
2	Rickets in children	Make a PPT ( presentation of at least 30 slides including basic information about the clinic, diagnosis, and treatment of rickets in children)	6
3	Acute severe eating and chronic eating disorders (ASED) in children	Create a puzzle about this topic(puzzle consisting of 30 questions,)	6
4	Gastritis, gastroduodenitis and peptic ulcer diseases in children	Create 6 case-studies with explanations about this topic.	7
5	Diseases of the gallbladder and biliary tract in children.	Prepare handmade models .	7
6	Iron deficiency anemia in children	Make 30 test questions with 5 options and 1 correct answer	7
7	Bronchitis and bronchiolitis in children	Make the video about this topic and describe	7
I MODUL			
8	Acute pneumonia in young and older children	Make a PPT ( presentation of at least 30 slides including basic information about the clinic, diagnosis, and treatment)	7
9	Acute rheumatic fever in children	Make 30 test questions with 5 options and 1 correct answer	7
10	Congenital heart defects in children	Prepare handmade models of organs and affected parts of this disease	7
11	Acute glomerulonephritis and acute pyelonephritis in children.	Create a puzzle about this topic	7
12	Helminthiasis in children.	Make 4 lamination pictures of pathogenesis about the this topic	7

<i>II- option</i>	<b>Task</b>	<b>Execution form</b>	<i>Quantaty of a/h</i>	<i>Points</i>	<b>Deadline</b>
<i>1. Article Scientific work, research work</i>	<b>Write an article and publish it in "Bulletin of Osh State University" , in international medical journals</b>	<b>Free form of article submission</b>	<i>81</i>	<i>5</i>	<b>During the semester</b>



# 8. Calendar and thematic plan of ISWT

No	Topic	Task for independent work	hours	Evaluation tools	Points	Literature	Completion date
1.	Norovirus gastroenteritis in a child patient(571)	Dimedus	2	Work on the Dimedus	5	Dimedus	3 week
2	Pneumonia in a child patient(547)	Dimedus	3	Work on the Dimedus		Dimedus	6 week
Module 1							
1	Tetralogy of Fallot(443)	Dimedus	2	Work on the Dimedus	5	Dimedus	12 week
2	Acute pyelonephritis in a child patient(629)	Dimedus	2	Work on the Dimedus		Dimedus	13 week

1-Module - 25 marks	2-Module - 25 marks
<ul style="list-style-type: none"> <li>✓ ISW - 4-marks</li> <li>✓ ISWT- 4-marks</li> <li>✓ Practical classes, current control- 4-marks</li> <li>*Lecturer current control- 4 marks</li> <li>✓ CURRENT control - 9 marks</li> </ul>	<ul style="list-style-type: none"> <li>✓ ISW - 4-marks</li> <li>✓ ISWT- 4-marks</li> <li>✓ Practical classes, current control- 4-marks</li> <li>*Lecturer current control- 4 marks</li> <li>✓ CURRENT control - 9 marks</li> </ul>
<b>Total 25 marks</b>	<b>Total 25 marks</b>
<b>Final exam -50 marks</b>	

## Main literature:

1. Kendig's Disorders of the Respiratory Tract in Children Published 2019
2. Rudolph's Pediatrics, 23rd Edition  
Shekerdemian, Abraham M. Rudolph, Colin D. Rudolph  
© 2018 | Published: July 31, 2018
3. Medstudy Pediatrics Review Core Curriculum 8th edition by Robert A Hannaman  
(Paperback, 2018-2019) January 1, 2018
4. PEDIATRIC GASTROINTESTINAL AND LIVER DISEASE, 6TH EDITION Hardcover - 16 December 2020 by Robert Wyllie (Author), Jeffrey S. Hyams (Author), Marsha Kay M.D. (Author)
5. 2.Nelson Textbook of Pediatrics, 2-Volume Set 21st Edition - April 1, 2019  
IAP Textbook of Pediatrics Edition 5 Publishing Year 2013
6. Pediatric Nephrology 7th ed. 2019 Editionby Francesco Emma (Editor), Stuart L. Goldstein (Editor), Arvind Bagga (Editor), Springer; 8th ed. 2022 edition (September 3, 2022)
7. Fundamentals of Pediatric Imaging (Fundamentals of Radiology) 2nd Edition October 24, 2016

"Additional literature:"

8. Pediatrics. National Leadership: in 2 volumes - M.: GEOTAR-Media, 2009 c is 1-1024, Volume 2 -.
9. Practical Algorithms in Pediatric Hematology and Oncology / Edited by R. H. Sills.- S. Karger AG, P.O. - 2009.
10. 1023 Hematology. Basic Principles and Practice - 4th ed. / Edited by R. Hoffman et al. - Elsevier Inc. - 2005.
11. Kapitan T.V. Propaedeutics of children's diseases [Textbook for students of higher medical educations]; Fourth edition, updated & translated in English. - Vinnitsa: The State cartographical Factory, 2012. - 808 p.
12. Current Pediatric Diagnosis & Treatment (CPDT). - 18th ed./ Ed. By W.W. Hay et al. - The McGraw-Hill Companies. - 2006.

**"Electronic library"**

**<https://www.cochrane.org/ru/evidence>**

**Ibooks:@MBS\_MedicalBooksStore link to the international electronic library [www.cochranelibrary.com](http://www.cochranelibrary.com) studying the effectiveness of treatment methods using evidence-based medicine**



1. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD007470.pub3/full?highlightAbstract=deficiency%7Cvitamin>

2. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD004655.pub3/full?highlightAbstract=deficiency%7Cvitamin>

3. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD007470.pub3/full?highlightAbstract=deficiency%7Cvitamin>

4. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD012581.pub2/full?highlightAbstract=rickets%7Crickets>

5. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD009584.pub2/full?highlightAbstract=malnutrition%7Cacute%7Csevere%7Csevere%7Cmalnutrition%7Cacute>

6. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD009000.pub3/full?highlightAbstract=malnutrition%7Cacute%7Csevere%7Csevere%7Cmalnutrition%7Cacute>

7. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD009584.pub2/full?highlightAbstract=malnutrition%7Cacute%7Csevere%7Csevere%7Cmalnutrition%7Cacute>

8. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD009924.pub2/full?highlightAbstract=malnutrition%7Cmalnutrit%7Cchronic>

9. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD010714.pub2/full?highlightAbstract=in%7Cchildren%7Cgastritis%7Cgastriti%7Cchild>

10. <https://onlinelibrary.wiley.com/doi/10.1046/j.1440-1746.2000.0150120h1.x>

11. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD004276.pub3/full>

12. <https://onlinelibrary.wiley.com/doi/10.1046/j.1440-1746.2000.0150120h1.x>

13. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD010068.pub2/full>

14. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD013227/full?highlightAbstract=anaemia%7Cdeficiency%7Ciron%7Cdeficiency%7Canemia%7Canemi>

15. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD000245.pub4/full?highlightAbstract=bronchitis%7Cbronchiti>

16. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD001726.pub5/full?highlightAbstract=bronchitis%7Cbronchiti>

17. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD007720.pub3/full?highlightAbstract=acute%7Cpneumonia%7Cyoung%7Cin%7Cchildren%7Cpneumoni%7Colder%7Celder%7Cacut%7Cchild>

18. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD013864.pub2/full?highlightAbstract=acute%7Cpneumonia%7Cyoung%7Cin%7Cchildren%7Cpneumoni%7Colder%7Celder%7Cacut%7Cchild>

19. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD002227/full?highlightAbstract=acute%7Cin%7Cchildren%7Cpneumonia%7Cfever%7Cacut%7Cpneumoni%7Colder%7Celder%7Cacut%7Cchild>

20. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD007950.pub3/full?highlightAbstract=congenital%7Cdefect%7Cin%7Cchildren%7Cdefects%7Ccongenital%7Cheart%7Cchild>

21. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD002290.pub5/full?highlightAbstract=glomerulonephritis%7Cglomerulonephr>

22. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD003772.pub4/full?highlightAbstract=acute%7Cpyelonephritis%7Cin%7Cchildren%7Cacut%7Cpyelonephr%7Cchild>

23. <https://www.cochranelibrary.com/cdsr/doi/10.1002/14651858.CD011055.pub2/full?highlightAbstract=helminthiasis%7Cin%7Cchildren%7Cchild%7Chelmintiasi>

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Handwritten signatures of the officials mentioned in the text, including B. B. B. and A. M. B.