



**CD 8.5.1 DISCIPLINE SYLLABUS FOR
UNIVERSITY STUDIES**

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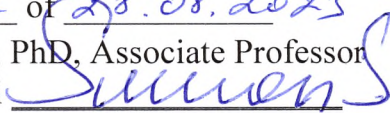
**FACULTY OF MEDICINE
STUDY PROGRAM 0912.1 MEDICINE
DEPARTMENT OF INFECTIOUS DISEASES**

APPROVED

at the meeting of the Commission for Quality Assurance and Evaluation of the Curriculum Faculty Medicine

Minutes No. 1 of 28.08.2023

Chairman MD, PhD, Associate Professor Suman Serghei


(signature)

APPROVED

at the Council meeting of the Faculty Medicine

Minutes No. 1 of 28.09.2023

Dean of Faculty, MD, PhD,

Associate Professor

Bețiu Mircea

(signature)


APPROVED

Approved at the meeting of the CHAIR OF INFECTIOUS DISEASES

Minutes No.1 of 29.08.2023

Head of chair, MD, PhD, Associate Professor

Plăcintă Gheorghe


(signature)

SYLLABUS

DISCIPLINE INFECTIOUS DISEASES IN CHILDREN

Integrated studies

Type of course: **Compulsory course**

Curriculum developed by the team of authors:

Plăcintă Gheorghe, PhD, associate professor

Serbenco Ludmila, dr. of med., associate professor

Alexeev Tatiana, dr. of med., associate professor

Juravliov Tatiana, university assistant

Chisinau, 2023



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I. INTRODUCTION

- **General presentation of the discipline: place and role of the discipline in the formation of the specific competences of the professional / specialty training program**

Infectious Diseases in Children is one of the disciplines in the academic training of the beneficiaries which will allow the perfect knowledge of infectious diseases in children, regardless of the specialty they will choose later, with a field of integration and implementation of fundamental knowledge (pathophysiology, microbiology, molecular biology, pediatrics, epidemiology, pharmacology, etc.) in clinical practice. This discipline studies the etiology, pathogenesis, clinical manifestations, evolution, treatment and prophylaxis of infectious diseases in children as well as age peculiarities.

The student acquires practical skills in examining and investigating the patient with infectious diseases, in estimating the results, in early diagnosis of infectious diseases, emergency medical assistance and treatment of the sick child according to the age and severity of the disease.

- **Mission of the curriculum (aim) in professional training**

To provide students with knowledge about the pathogenic agents - human organism conflict, particularities of reactivation of the macro-organism, cultivation of skills, habits in specific diagnostic opportunities and treatment, measures for the prevention of infectious diseases in children.

- **Languages of the discipline:** English, Romanian, Russian, French
- **Beneficiaries:** students of the 6th year, **Faculty of Medicine.**

II. MANAGEMENT OF THE DISCIPLINE

Code of discipline		S.12.O.100	
Name of the discipline		INFECTIOUS DISEASES IN CHILDREN	
Person(s) in charge of the discipline		PhD, Associate Professor, Gheorghe Plăcintă	
Year	VI	Semester/Semesters	XI
Total number of hours, including:			90
Lectures	20	Practical hours	20
Seminars	20	Self-training	30
Form of assessment	E	Number of credits	3



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III. TRAINING AIMS WITHIN THE DISCIPLINE

At the end of the discipline study the student will be able to:

● *at the level of knowledge and understanding:*

- ✓ Have knowledge in specifying the clinical picture, age peculiarities, evolution and complications of infectious diseases in children
- ✓ To achieve clinical thinking and the ability to analyze and systematize the results of clinical and laboratory examination in infectious diseases in children
- ✓ Have knowledge in early diagnosis of infectious diseases in children
- ✓ To know the consequences of infectious diseases in children
- ✓ To know the indications of hospitalization and the rules for the transport of patients with infectious disease in children
- ✓ Have knowledge in clinical symptoms and changes in cerebrospinal fluid in viral and bacterial meningitis
- ✓ To create the treatment plan for children with infectious diseases
- ✓ Have knowledge in diagnosis and treatment of infectious diseases at home (ARI, ADD, other infections) in accordance with Clinical Protocols and National Standards
- ✓ To know the diagnosis and treatment algorithm and the argumentation of emergency assistance at pre-hospital stage in infectious diseases in children:
 - meningococcal infection
 - meningitis, meningoencephalitis
 - hyperpyrexia with febrile seizures
 - food poisoning
 - neurotoxicosis
- ✓ To provide emergency medical assistance to children with:
 - septic shock (toxiinfectious)
 - acute cerebral edema.
- ✓ To develop the specifics in the criteria of admission in the community of convalescence and in the dynamic supervision of children with infectious diseases.
- ✓ To know the immunoprophylaxis of infectious diseases (National Immunization Schedule).

● *at the application level:*

- ✓ To examine the child with infectious diseases
- ✓ To establish and argue the early diagnosis of infectious diseases in children
- ✓ To create the home care plan
- ✓ To read the blood count in children with infectious diseases according to the age and etiology of the disease
- ✓ To have knowledge in the procedure of isolation and treatment of infectious disease at home.
- ✓ To create the paraclinical examination plan for children with infectious diseases, mentioning the main (specific) diagnostic methods
- ✓ To characterize the eruption in various eruptive infectious diseases
- ✓ To characterize the changes in pharynx in various infectious diseases with tonsillitis
- ✓ To know the method of gastric lavage in children
- ✓ To appreciate the presence and degree of dehydration in infants and children in acute diarrheal diseases
- ✓ To know the character of faeces in patients with ADD and viral hepatitis
- ✓ To know the oral rehydration therapy (plan A, B), intravenous (plan C)



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- ✓ To determine the meningeal signs in children with fever
- ✓ To correctly interpret the results of laboratory tests, CSF, bacterial examination of faeces, nasopharyngeal excretion, virological examination of blood, serological reactions (AT, IHA, PCR) of intestinal microflora in dysbiosis.

● ***at the integration level:***

- ✓ To know the specificities of the causative agents of infectious diseases in children
- ✓ To know the infectious disease morbidity in children
- ✓ Have knowledge in pathogenesis and morphopathology of infectious diseases
- ✓ To know the contemporary principles and methods of diagnosis of infectious diseases
- ✓ To know the principles of specific therapy of infectious diseases (serotherapy, immunotherapy)
- ✓ To know the principles of antibiotic therapy for infectious diseases
- ✓ To know the principles of prophylaxis and control of infectious diseases and anti-epidemic measures in the outbreaks
- ✓ To know the forming principles of a medical observation sheet for patients with infectious diseases in children
- ✓ To know the structure, function and pathophysiological features of CNS, respiratory tract, digestive system and other systems in infants and young children
- ✓ To know the particularities of infectious diseases in adults
- ✓ To know the indications and possess the technique of lumbar puncture, with the subsequent interpretation of the results of the CSF analysis.

IV. PROVISIONAL TERMS AND CONDITIONS

1. The student is present at the practical lessons with thorough knowledge in the field (pharmacology, pathophysiology, microbiology, epidemiology, pediatrics).
2. The student is obliged:
 - To know the language of teaching
 - To have a proper outfit for a doctor (white dressing gown, mask, footwear, stethoscope, training notebook).
 - To adhere to the anti-epidemic regime in the clinic, to preserve the cleanliness, order, tranquility and sleep of the sick child, to be benevolent with the patient, his parents or the guardian of the child.
 - To have communication and teamwork skills.
 - To promote the principles of ethics and deontology in the medical care of the sick child
 - To have digital skills (use of the Internet, processing medical records, protocols, electronic tables, etc.)



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V. THEMES AND ESTIMATE ALLOCATION OF HOURS

Lectures, seminars and self-training

No. d/o	THEME	Number of hours		
		Lectures	Practical hours	Self-training
1.	Rules for hospitalization, distribution in wards and discharge of children with infectious diseases, documentation. Patient care. The documentation. Medical record of the inpatient. Vaccination schedule in the Republic of Moldova.	-	1	2
2.	Acute infectious diarrheal diseases in children (acute diarrheal disease - ADD). Salmonellosis. Shigellosis. Escherichiosis. Acute diarrhea with staphylococci, conditionally pathogenic enterobacteria and viruses. Classification of clinical forms. Clinical picture. Complications. Dehydration syndrome. Diagnostic. Differential diagnosis. Treatment. Rehydration therapy.	2	5	7
3.	Acute viral hepatitis (A, B, C, D, E) in children. Classification of clinical forms of acute viral hepatitis. Clinical syndromes. Viral hepatitis A in children. Etiopathogenesis. Clinical periods. Clinical forms. Clinical picture. Diagnostic. Differential diagnosis. Treatment. Prophylaxis.	2	3	2
4.	Streptococcal infection in children. Scarlet fever. Etiopathogenesis. Classification of clinical forms of scarlet fever. Clinical syndromes. Clinical picture. Complications. Diagnostic. Differential diagnosis. Treatment. Prophylaxis.	2	2	2
5.	Measles and Rubella in children. Congenital rubella. Etiopathogenesis. Classification of clinical forms. Clinical picture. Complications. Diagnostic. Differential diagnosis. Treatment. Prophylaxis.	2	2	2
6.	Diphtheria in children. Etiopathogenesis. Classification of clinical forms of diphtheria. Clinical picture. Complications. Diagnostic. Differential diagnosis. Treatment. Prophylaxis.	2	2	1
7.	Peculiarities of influenza and ARVI in children. Etiopathogenesis. Classification of clinical forms of influenza and ARVI. Clinical picture. Clinical syndromes. Complications. Diagnostic. Differential diagnosis. Treatment. Prophylaxis.	2	4	2
8.	Mumps in children. Etiopathogenesis. Classification of clinical forms of mumps. Clinical picture. Diagnostic. Differential diagnosis. Treatment. Prophylaxis.	2	2	2
9.	Pertussis (whooping cough). Parapertussis. Etiopathogenesis. Classification of clinical forms. Clinical picture. Complications. Diagnostic. Differential diagnosis. Treatment. Prophylaxis.	2	2	2
10.	Chickenpox. Shingles. Herpes simplex infection in children. Etiopathogenesis. Classification of clinical forms of chickenpox and other herpes infections. Clinical picture. Complications. Diagnostic.	2	3	2



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No. d/o	THEME	Number of hours		
		Lectures	Practical hours	Self-training
	Differential diagnosis. Treatment. Prophylaxis.			
11.	Enteroviral infections (EI) non-polio (enteroviruses). Poliomyelitis. Etiopathogenesis. Classification of clinical forms of enteroviruses, poliomyelitis. Clinical picture. Clinical features and evolution according to age. Diagnostic. Differential diagnosis. Treatment. Prophylaxis.	-	4	2
12.	Meningococcal infection in children. Etiopathogenesis. Classification of clinical forms of meningococcal infection. Clinical picture. Complications. Emergencies (septic shock, acute cerebral edema). Laboratory diagnosis. Differential diagnosis. Treatment. Prophylaxis.	2	4	2
13.	Practical skills	-	4	2
14.	Testing	-	2	-
Total		20	40	30

VI. PRACTICAL TOOLS PURCHASED AT THE END OF THE COURSE

Mandatory essential practical tools are:

- Examination of the child with infectious diseases
- Determination of meningeal signs in children
- Rash characteristic in various eruptive infectious diseases
- Pharyngeal changes in various infectious diseases
- The nature of feces in children with in acute diarrheal diseases, viral hepatitis and other infectious diseases
- Degree of dehydration in infants and young children in acute diarrheal diseases
- Establishing and argumentation of the early diagnosis of infectious diseases in children
- Laboratory investigations plan for children with infectious diseases main (specific) methods of diagnosis
- Interpretation of the results of biological blood tests, blood test, CSF, bacteriological examination, virological examination, serological reactions (PCR, ELISA, AR, CFR, IHR, etc.)
- Treatment of the patient with infectious diseases at home and in the hospital
- Emergency care at the pre-hospital stage in infectious diseases in children
- Oral rehydration therapy (plan A, B), intravenous (plan C)
- Gastric lavage in children
- Duration of isolation of children with infectious diseases at home and in the hospital.



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VII. OBJECTIVES AND CONTENT UNITS

Objective	Content units
<p>Theme 1. Rules for hospitalization, distribution in wards and discharge of children with infectious diseases, documentation. Patient care. Medical record of the inpatient. Vaccination schedule in the Republic of Moldova.</p>	
<ul style="list-style-type: none"> ● To know: <ul style="list-style-type: none"> - the rules for hospitalization of the patients with various infectious diseases; - their distribution in separate boxes for certain diseases; - hygienic and anti-epidemic regime. ● To demonstrate: <ul style="list-style-type: none"> - completing the observation sheet; - a caring attitude towards the sick child. ● To Apply: <ul style="list-style-type: none"> - practical skills in the thorough examination of the sick child; - logical description of the accumulated data (medical record of the inpatient, medical prescription sheet, transfer epicrisis, extract from the medical record of the inpatient, etc.). - principles of ethics and deontology. ● To Integrate: <ul style="list-style-type: none"> - knowledge of specific and non-specific prophylaxis of infectious diseases in children (including vaccination schedule). 	<p>Primary examination of the patient - initial method of thinking and argumentation of the diagnosis. Clinical observation sheet written by each student - medical element for diagnosis and treatment of patients. Clinical thinking - a necessary element for establishing clinical diagnosis and differentiation from other pathologies. Medical ethics and deontology - elements strictly necessary in the treatment of patients in order to prevent the disclosure of medical secrecy.</p>
<p>Theme 2. Acute infectious diarrheal diseases in children (acute diarrheal disease - ADD). Salmonellosis. Shigellosis. Escherichiosis. Acute diarrhea with staphylococci, conditionally pathogenic enterobacteria and viruses. Classification of clinical forms. Clinical picture. Complications. Dehydration syndrome. Diagnostic. Differential diagnosis. Treatment. Rehydration therapy.</p>	
<ul style="list-style-type: none"> ● To define: <ul style="list-style-type: none"> - clinical and diagnostic features depending on the age of the child, specific ADD (shigellosis, salmonellosis, escherichiosis, acute diarrhea with staphylococci, conditionally pathogenic enterobacteria and viruses); ● To know: <ul style="list-style-type: none"> - incidence, modern aspects of etiopathogenesis of shigellosis, salmonellosis, escherichiosis, acute diarrhea with staphylococci, conditionally pathogenic enterobacteria and viruses in children; - clinical and paraclinical diagnosis in ADD; 	<p>Sources of infection and routes of transmission in shigellosis, salmonellosis, escherichiosis acute diarrhea with staphylococci, conditionally pathogenic enterobacteria and viruses. Viral infections, which can develop with gastrointestinal syndrome. Characteristic toxic syndrome in Acute Diarrheal Disease (ADD). Characteristic of diarrhea syndrome in ADD.</p>



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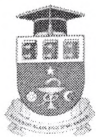
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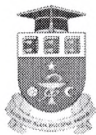
Objective	Content units
<ul style="list-style-type: none"> - clinical classification of shigellosis, salmonellosis, escherichiosis, acute diarrhea with staphylococci, conditionally pathogenic enterobacteria and viruses; - clinical syndromes in ADD and peculiarities in children of different ages; - signs of dehydration in ADD; - principles of treatment of shigellosis, salmonellosis, escherichiosis, acute diarrhea with staphylococci, conditionally pathogenic enterobacteria and viruses depending on the age of the child, premorbid background and complications; - dehydration treatment (plan A, B, C) in ADD. <p>● Demonstrate the ability to:</p> <ul style="list-style-type: none"> - to perform the clinical diagnosis of shigellosis, salmonellosis, sclerosis, acute diarrhea with staphylococci, conditionally pathogenic enterobacteria and viruses in children; - to perform the differential diagnosis of ADD and its argumentation; - to describe the laboratory data for the diagnosis of ADD; - to argue the definitive clinical diagnosis (complications and comorbidities); - to draw up the treatment plan in the ADD and its argumentation. <p>● To apply:</p> <ul style="list-style-type: none"> - the knowledge acquired in approaching the child with ADD; - the algorithm for diagnosis, differential diagnosis and treatment in possible emergencies in the severe child with ADD; - the knowledge obtained for the optimization of the therapeutic compliance; - the knowledge related to the preparation of the documentation (medical record of the inpatient, medical prescription sheet, transfer epicrisis, extract from the medical record of the inpatient, etc.). <p>● To integrate:</p> <ul style="list-style-type: none"> - knowledge in the fields of fundamental, preclinical and clinical disciplines in practice; - knowledge of specific and / or non-specific prophylaxis in ADD. 	<p>Clinical picture of shigellosis, salmonellosis, escherichiosis, acute diarrhea with staphylococci, conditionally pathogenic enterobacteria and viruses in children.</p> <p>Characteristics of stools in shigellosis, salmonellosis, escherichiosis, acute diarrhea with staphylococci, conditionally pathogenic enterobacteria and viruses.</p> <p>Clinical classification of shigellosis, salmonellosis, escherichiosis, acute diarrhea with staphylococci, conditionally pathogenic enterobacteria and viruses.</p> <p>Criteria of severity in ADD.</p> <p>Clinical features of food poisoning in ADD.</p> <p>Clinical signs of hypokalemia.</p> <p>Peculiarities of shigellosis, salmonellosis, escherichiosis, acute diarrhea with staphylococci, conditionally pathogenic enterobacteria and viruses in infants and newborns.</p> <p>Complications in ADD.</p> <p>Differential diagnosis in ADD.</p> <p>Criteria for hospitalization of children with ADD.</p> <p>Criteria for discharge of patients with ADD.</p> <p>Diagnostic methods in ADD in children.</p> <p>Principles of treatment in ADD in children at home and in the hospital.</p> <p>Assessment the degree of dehydration of the patient with ADD. Treatment plan A, B and C.</p> <p>Correction of bowel biocenosis in young children.</p> <p>Specific and non-specific prophylaxis in ADD.</p>



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Objective	Content units
<p>Theme 3. Acute viral hepatitis (A, B, C, D, E) in children. Classification of clinical forms of acute viral hepatitis. Clinical syndromes. Viral hepatitis A in children. Etiopathogenesis. Clinical periods. Clinical forms. Clinical picture. Diagnostic. Differential diagnosis. Treatment. Prophylaxis.</p>	
<ul style="list-style-type: none"> ● To define: <ul style="list-style-type: none"> - specific clinical and diagnostic features of acute viral hepatitis, according to the child's age; ● To know: <ul style="list-style-type: none"> - incidence, modern aspects of etiopathogenesis of acute viral hepatitis in children; - clinical and paraclinical methods of the diagnosis in viral hepatitis and their significance in diagnosis; - clinical classification of acute viral hepatitis; - clinical syndromes characteristic of acute viral hepatitis with particularities in children and their significance for etiological diagnosis; - the characteristic of the liver in the healthy child and in the infectious pathology with the damage of the liver; - the principles of treatment of acute viral hepatitis according to the child's age, premorbid background and complications. ● Demonstrate the ability to: <ul style="list-style-type: none"> - to establish the clinical diagnosis of acute viral hepatitis in children; - to make the differential diagnosis of viral hepatitis A with other acute viral hepatitis and its argumentation; - to describe laboratory and instrumental data and their importance for the diagnosis of acute viral hepatitis; - to draw up the final clinical diagnosis (underlying disease, complications and comorbidities) of acute viral hepatitis; - to draw up the treatment plan for the patient with acute viral hepatitis. ● To apply: <ul style="list-style-type: none"> - the knowledge acquired in approaching the child with acute viral hepatitis; - the algorithm for diagnosis, differential diagnosis of acute viral hepatitis and treatment in possible emergencies in the severe child; - the knowledge acquired in the analysis of case studies and practical activity; - the knowledge obtained to optimize the therapeutic compliance of patients with acute viral hepatitis; - the knowledge related to the preparation of the documentation (medical record of the inpatient, 	<p>Epidemiological features of enteral and parenteral viral hepatitis. Clinical classification of acute viral hepatitis. Duration of incubation periods of viral hepatitis A, B, C, D, E. Clinical periods of viral hepatitis and their duration. Clinical features of acute viral hepatitis. Atypical forms of acute viral hepatitis. Clinical and laboratory tests that determine the degree of severity of the disease. Differential diagnosis of viral hepatitis in various periods of the disease. Contemporary methods of diagnosis and treatment of patients with viral hepatitis. Complications of acute viral hepatitis. Consequences and sequelae of acute viral hepatitis depending on the etiological factor. Specific and non-specific prophylaxis of acute viral hepatitis.</p>



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Table with 2 columns: Objective and Content units. The Objective column lists learning goals such as 'To integrate', 'To define', 'Demonstrate the ability to', 'To apply', and 'To integrate'. The Content units column lists topics like 'Peculiarities of the pathogen in streptococcal infections', 'Epidemiological features of scarlet fever', 'Pathogenesis of scarlet fever', etc.



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Objective	Content units
<ul style="list-style-type: none"> - knowledge about nonspecific prophylaxis of scarlet fever in children. 	
<p>Theme 5. Measles and Rubella in children. Congenital rubella. Etiopathogenesis. Classification of clinical forms. Clinical picture. Complications. Diagnostic. Differential diagnosis. Treatment. Prophylaxis.</p>	
<ul style="list-style-type: none"> ● To define: <ul style="list-style-type: none"> - clinical and diagnostic features according to the age of the child, specific to measles, rubella. ● To know: <ul style="list-style-type: none"> - incidence, modern aspects of etiopathogenesis of measles, rubella in children; - clinical and paraclinical diagnosis; - classification of measles, rubella; - clinical syndromes; - principles of treatment according to the child's age, premorbid background and complications. ● Demonstrate the ability to: <ul style="list-style-type: none"> - to perform the clinical diagnosis of measles, rubella in children; - to make the differential diagnosis of measles, rubella and its argument; - to describe laboratory and instrumental data; - to argue the clinical diagnosis of measles, rubella (complications and comorbidities); - to indicate the treatment plan for patients with measles, rubella. ● To apply: <ul style="list-style-type: none"> - the knowledge acquired in approaching the child with measles, rubella; - the algorithm of diagnosis, differential diagnosis and treatment in possible emergencies in the severe child with measles, rubella; - the knowledge acquired in the analysis of case studies and practical activity; - the knowledge obtained for the optimization of the therapeutic compliance in measles and rubella; - the knowledge related to the preparation of the documentation (medical record of the inpatient, medical prescription sheet, transfer epicrisis, extract from the medical record of the inpatient, etc.). ● To integrate: <ul style="list-style-type: none"> - knowledge in the fields of fundamental, preclinical and clinical disciplines in daily practice; 	<p>Measles, rubella at the current stage in the world and in the Republic of Moldova.</p> <p>Characteristic of the causative agent of measles, rubella.</p> <p>The tropism of measles and rubella virus.</p> <p>Source of infection, routes of transmission, receptivity.</p> <p>Duration of the incubation period.</p> <p>Clinical periods and their duration.</p> <p>Basic syndromes in acquired rubella.</p> <p>Rubella and pregnant. Congenital rubella.</p> <p>Mitigated measles.</p> <p>Rash in measles.</p> <p>Rash in rubella.</p> <p>Differential diagnosis in measles.</p> <p>Differential diagnosis in rubella.</p> <p>Complications in measles, acquired rubella.</p> <p>Paraclinical investigations in measles, rubella.</p> <p>Treatment of measles, rubella.</p> <p>Criteria for discharge and surveillance of measles patients.</p>



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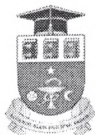
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Objective	Content units
<ul style="list-style-type: none"> - knowledge of specific and non-specific prophylaxis of measles, rubella in children (including vaccination schedule). 	
<p>Theme 6. Diphtheria in children. Etiopathogenesis. Classification of clinical forms of diphtheria. Clinical picture. Complications. Diagnostic. Differential diagnosis. Treatment. Prophylaxis.</p>	
<ul style="list-style-type: none"> ● To define: <ul style="list-style-type: none"> - clinical and diagnostic features. ● To know: <ul style="list-style-type: none"> - incidence, modern aspects of etiopathogenesis; - clinical and paraclinical diagnosis; - diphtheria classification; - complications; - to know the principles of treatment. ● Demonstrate the ability to: <ul style="list-style-type: none"> - to perform the clinical diagnosis; - to perform the differential diagnosis; - to describe laboratory and instrumental data; - to argue the clinical diagnosis carried out (complications and comorbidities); - to draw up the personalized treatment plan and its argumentation. ● To apply: <ul style="list-style-type: none"> - the knowledge acquired in approaching the patient with diphtheria; - diagnostic algorithm, differential diagnosis and treatment; - the knowledge acquired in the analysis of case studies and practical activity; - the knowledge obtained for the optimization of the therapeutic compliance; - the knowledge related to the preparation of the documentation (medical record of the inpatient, medical prescription sheet, transfer epicrisis, extract from the medical record of the inpatient, etc.). ● To integrate: <ul style="list-style-type: none"> - knowledge in the fields of fundamental, preclinical and clinical disciplines in practice and daily life; - knowledge of specific and non-specific diphtheria prophylaxis (including vaccination schedule). 	<p>Characteristic of the causative agent of diphtheria.</p> <p>Basic principles of clinical classification.</p> <p>Classification of oropharyngeal diphtheria.</p> <p>Signs of fibrinous inflammation.</p> <p>Organs and systems that are damaged in case of toxic diphtheria.</p> <p>Clinical picture of pharyngo-tonsillar diphtheria.</p> <p>Basic clinical signs of laryngeal diphtheria.</p> <p>Clinical picture of pharyngo-tonsillar diphtheria in vaccinated persons.</p> <p>Complications of diphtheria.</p> <p>Diphtheria myocarditis.</p> <p>Toxic nerve complications.</p> <p>Methods of diagnosis of oropharyngeal diphtheria.</p> <p>Differential diagnosis with infectious and non-infectious diseases with angina syndrome.</p> <p>Principles of treatment.</p> <p>Treatment of diphtheria with diphtheria antitoxin.</p> <p>Treatment of localized forms in oropharyngeal diphtheria.</p> <p>Principles of treatment of toxic forms of pharyngo-tonsillar diphtheria.</p> <p>Specific and non-specific prophylaxis.</p>



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Objective	Content units
<p>Theme 7. Peculiarities of influenza and ARVI in children. Etiopathogenesis. Classification of clinical forms of influenza and ARVI. Clinical picture. Clinical syndromes. Complications. Diagnostic. Differential diagnosis. Treatment. Prophylaxis.</p>	
<ul style="list-style-type: none"> ● To define: <ul style="list-style-type: none"> - clinical and diagnostic features depending on the age of the child, specific to influenza, ARVI, COVID-19 infection. ● To know: <ul style="list-style-type: none"> - incidence, modern aspects of etiopathogenesis; - clinical and paraclinical diagnosis; - classification of influenza, ARVI, COVID-19 infection; - characteristic clinical syndromes; - peculiarities in children of different ages; - principles of treatment depending on the child's age, premorbid background and complications. ● Demonstrate the ability to: <ul style="list-style-type: none"> - to perform the clinical diagnosis; - to perform the differential diagnosis and its argumentation; - to describe laboratory and instrumental data and their importance for diagnosis; - to draw up the clinical diagnosis carried out (complications and comorbidities); - to draw up the personalized treatment plan and its argumentation. ● To apply: <ul style="list-style-type: none"> - the knowledge acquired in approaching the child with influenza, ARVI; - the algorithm for diagnosis, differential diagnosis and treatment in possible emergencies in the severe case; - the knowledge acquired in the analysis of case studies and practical activity; - the knowledge obtained for the optimization of the therapeutic compliance; - the knowledge related to the preparation of the documentation (medical record of the inpatient, medical prescription sheet, transfer epicrisis, extract from the medical record of the inpatient, etc.). ● To integrate: <ul style="list-style-type: none"> - knowledge in the fields of fundamental, preclinical and clinical disciplines in practice and daily life; - knowledge of specific flu prophylaxis. 	<p>Sources of influenza and ARV infections.</p> <p>Airway segments predominantly affected in influenza and other ARVI.</p> <p>Etiopathogenesis of influenza and other ARVI.</p> <p>Clinical syndromes in influenza and ARVI.</p> <p>Stenotic laryngotracheitis (croup syndrome) in influenza and ARVI, clinical picture and stages of evolution.</p> <p>Clinical picture in influenza with neurotoxicosis syndrome. Urgent assistance at the pre-hospital stage.</p> <p>Clinical forms in adenoviral infection.</p> <p>Bronchoobstructive syndrome in respiratory syncytial virus infection - clinical picture and treatment.</p> <p>Complications of influenza and other ARVI.</p> <p>Etiological confirmation in influenza, ARVI.</p> <p>Indications for hospitalization of a child with influenza, ARVI.</p> <p>Treatment of patients with influenza and ARVI, severe forms (neurotoxicosis, hyperpyrexia, convulsions).</p> <p>Treatment of patients with influenza and ARVI, mild and moderate forms at home.</p> <p>Specific and non-specific prophylaxis of influenza and ARVI.</p>



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Objective Content units

Theme 8. Mumps in children. Etiopathogenesis. Classification of clinical forms of mumps. Clinical picture. Differential diagnosis. Diagnostic. Treatment. Prophylaxis.

- To define: clinical and diagnostic features specific to mumps depending on the age of the child.
To know: incidence, modern aspects of etiopathogenesis of mumps; clinical and paraclinical diagnosis; classification of mumps; principles of treatment of mumps.
Demonstrate the ability to: to perform the clinical diagnosis of mumps; to perform the differential diagnosis and its argumentation; to describe the laboratory and instrumental data and their importance for the diagnosis of mumps; to prepare the final clinical diagnosis; to draw up the personalized treatment plan and its argumentation.
To apply: the knowledge acquired in approaching the child with mumps; the algorithm for diagnosis, differential diagnosis and treatment in possible emergencies in the child with mumps; the knowledge acquired in the analysis of case studies and practical activity; the knowledge obtained for the optimization of the therapeutic compliance; the knowledge related to the preparation of the documentation (medical record of the inpatient, medical prescription sheet, transfer epicrisis, extract from the medical record of the inpatient, etc.).
To integrate: knowledge in the fields of fundamental, preclinical and clinical disciplines in daily practice; knowledge of specific and non-specific prophylaxis of mumps (including vaccination schedule).

Morphopathological changes in the disease of the endocrine glands and meninges. Source of infection, routes of transmission of the disease. Clinical classification of mumps. Clinical forms in mumps (according to type, severity and evolution). Clinical picture and frequency of salivary gland damage. The clinical picture in mumps pancreatitis. Clinical picture and frequency of damage to the testicles and mammary glands. Clinical picture in mumps with CNS involvement. CSF feature. Clinical features of mumps in adults. Mumps complications. Diagnostic methods of mumps. Differential diagnosis between mumps, purulent mumps, toxic diphtheria, cervical lymphadenitis, tuberculous meningitis. Principles of treatment in various clinical forms. Specific and nonspecific prophylaxis of mumps.

Theme 9. Pertussis (whooping cough). Parapertussis. Etiopathogenesis. Classification of clinical forms. Clinical picture. Complications. Diagnostic. Differential diagnosis. Treatment. Prophylaxis.

- To define: Etiopathogenesis of whooping cough.



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Objective	Content units
<ul style="list-style-type: none"> - clinical and diagnostic features depending on the age of the child, specific to whooping cough. ● To know: <ul style="list-style-type: none"> - incidence, modern aspects of etiopathogenesis; - clinical and paraclinical diagnosis (laboratory and instrumental); - classification of whooping cough; - the clinical periods characteristic of whooping cough with particularities in children; - the principles of treatment of whooping cough depending on the child's age, premorbid background and complications. ● Demonstrate the ability to: <ul style="list-style-type: none"> - to perform the clinical diagnosis of whooping cough; - to perform the differential diagnosis and its argumentation; - to describe laboratory and instrumental data; - to draw up the clinical diagnosis carried out (basic disease, complications and comorbidities); - to draw up the personalized treatment plan for whooping cough and its reasoning. ● To apply: <ul style="list-style-type: none"> - the knowledge acquired in approaching the child with whooping cough; - the algorithm for diagnosis, differential diagnosis and treatment in possible emergencies in the severe child with whooping cough; - the knowledge related to the preparation of the documentation (medical record of the inpatient, medical prescription sheet, transfer epicrisis, extract from the medical record of the inpatient, etc.); - the knowledge acquired in the analysis of case studies and practical activity. ● To integrate: <ul style="list-style-type: none"> - knowledge in the fields of fundamental, preclinical and clinical disciplines in daily practice; - knowledge of specific and non-specific prophylaxis of whooping cough in children (including vaccination schedule). 	<p>The source of infection, the routes of transmission, receptivity, the peculiarities of immunity in whooping cough.</p> <p>The mechanism of spastic cough access.</p> <p>Peculiarities of pathogenesis in whooping cough.</p> <p>Disease periods and their duration.</p> <p>Clinical picture of catarrhal and spasmodic period in whooping cough.</p> <p>Indices of severity in whooping cough.</p> <p>Classification of clinical forms in whooping cough.</p> <p>Complications of whooping cough.</p> <p>Laboratory investigations necessary to confirm the diagnosis of whooping cough.</p> <p>Differentiation of whooping cough in catarrhal and spasmodic period.</p> <p>Peculiarities of whooping cough in infants.</p> <p>Peculiarities of whooping cough in vaccinated people.</p> <p>Clinical features of whooping cough caused by <i>B. parapertussis</i>.</p> <p>Principles of treatment of whooping cough, antibiotic therapy.</p> <p>Antiepidemic measures in the outbreak of whooping cough.</p> <p>Specific and non-specific prophylaxis of whooping cough.</p>

Theme 10. Chickenpox. Shingles. Herpes simplex infection in children. Etiopathogenesis. Classification of clinical forms of chickenpox and other herpes infections. Clinical picture. Complications. Diagnostic. Differential diagnosis. Treatment. Prophylaxis.

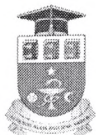


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Objective	Content units
<ul style="list-style-type: none"> ● To define: <ul style="list-style-type: none"> - clinical and diagnostic features depending on the child's age, specific to chickenpox, shingles, herpes simplex infection. ● To know: <ul style="list-style-type: none"> - incidence, modern aspects of etiopathogenesis of chickenpox and other herpes infections in children; - clinical and paraclinical diagnosis (laboratory and instrumental); - classification of chickenpox, herpes simplex infection; - clinical forms characteristic of herpes infections in children; - treatment principles. ● Demonstrate the ability to: <ul style="list-style-type: none"> - to make a clinical diagnosis of chickenpox, shingles, herpes simplex infection in children; - to perform the differential diagnosis and its argumentation; - to describe laboratory and instrumental data and their importance for diagnosis; - to draw up the finale clinical diagnosis - to draw up the personalized treatment plan for the patient with herpes infection. ● To apply: <ul style="list-style-type: none"> - the knowledge acquired in the approach of the child with chickenpox, shingles, herpes simplex infection in children; - diagnostic algorithm, differential diagnosis and treatment in possible emergencies; - the knowledge acquired in the analysis of case studies and practical activity; - the knowledge related to the preparation of the documentation (medical record of the inpatient, medical prescription sheet, transfer epicrisis, extract from the medical record of the inpatient, etc.). ● To integrate: <ul style="list-style-type: none"> - knowledge in the fields of fundamental, preclinical and clinical disciplines in daily practice; - knowledge of specific and non-specific prophylaxis of chickenpox, shingles, herpes simplex infection. 	<p>Sources of infection and their epidemic importance.</p> <p>Classification of chickenpox.</p> <p>Clinical forms of chickenpox.</p> <p>Clinical picture of chickenpox and shingles.</p> <p>Rash in chickenpox and shingles.</p> <p>Peculiarities of chickenpox in infants.</p> <p>Peculiarities of chickenpox in adolescents, adults and pregnant women.</p> <p>Severity criteria for chickenpox and shingles.</p> <p>Complications in chickenpox.</p> <p>Diagnosis of chickenpox and shingles.</p> <p>Differential diagnosis of chickenpox and shingles.</p> <p>Criteria for hospitalization of patients with chickenpox and shingles.</p> <p>Principles of treatment in chickenpox and shingles.</p> <p>Clinical forms of Herpes simplex virus type 1 infection.</p> <p>Clinical symptoms in herpetic gingivostomatitis.</p> <p>Skin manifestations in herpes simplex infection.</p> <p>Clinical picture of herpetic encephalitis in children.</p> <p>Laboratory diagnostic methods in herpes infection.</p> <p>Differential diagnosis between herpetic gingivostomatitis, herpangina, stomatitis, foot-and-mouth disease, chickenpox.</p> <p>Treatment of herpes simplex infection.</p> <p>Prophylaxis of herpes simplex infections.</p>

Theme 11. Enteroviral infections (EI) non-polio (enteroviruses). Poliomyelitis. Etiopathogenesis. Classification of clinical forms of enteroviruses, poliomyelitis. Clinical picture. Clinical features and evolution according to age. Diagnostic. Differential diagnosis. Treatment. Prophylaxis.



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Table with 2 columns: Objective and Content units. The Objective column lists learning goals such as 'To define', 'To know', 'Demonstrate the ability to', 'To apply', and 'To integrate'. The Content units column lists topics like 'Clinical classification of enteroviruses', 'Clinical signs in herpangina', 'Clinical signs of enteroviral meningitis', etc.

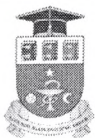
Theme 12. Meningococcal infection in children. Etiopathogenesis. Classification of clinical forms of meningococcal infection. Clinical picture. Complications. Emergencies (septic shock, acute cerebral edema). Laboratory diagnosis. Differential diagnosis. Treatment. Prophylaxis.



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Objective	Content units
<ul style="list-style-type: none">● To define:<ul style="list-style-type: none">- clinical and diagnostic features according to the child's age, specific to meningococcal infection.● To know:<ul style="list-style-type: none">- incidence, modern aspects of etiopathogenesis of meningococcal infection;- clinical and paraclinical diagnosis (laboratory and instrumental) and their importance in diagnosis;- classification of meningococcal infection;- clinical forms;- peculiarities in children of different ages;- treatment principles.● Demonstrate the ability to:<ul style="list-style-type: none">- to perform the early clinical diagnosis of meningococcal infection;- to perform the differential diagnosis and its argumentation;- to describe laboratory and instrumental data and their importance for diagnosis;- to confirm the clinical diagnosis (complications and comorbidities);- to indicate the treatment (of the basic disease and comorbidities) and its argumentation.● To apply:<ul style="list-style-type: none">- the algorithm for diagnosis, differential diagnosis and treatment in possible emergencies at the pre-hospital and hospital stage;- the knowledge acquired in the analysis of case studies and practical activity;- the knowledge obtained for the optimization of the therapeutic compliance;- the knowledge related to the preparation of the documentation (medical record of the inpatient, medical prescription sheet, transfer epicrisis, extract from the medical record of the inpatient, etc.).● To integrate:<ul style="list-style-type: none">- knowledge in the fields of fundamental, preclinical and clinical disciplines in daily practice;- knowledge of specific and non-specific prophylaxis of meningococcal infection in children.	<p>The main properties of meningococcus. Sources of infection. Transmission routes, susceptibility according to age, seasonal nature. Pathogenesis. The main morphological changes of blood vessels, skin, adrenal glands, spinal cord, brain. Collection of anamneses in patients with suspicion of meningococcal meningitis. Classification of meningococcal infection. Clinical manifestations of meningococcal infection. Characteristic of meningococcemia. Peculiarities of meningococcal infection in infants and newborns. The clinical picture of septic shock in severe forms. Acute cerebral edema syndrome, clinical picture. Brain hypotension syndrome, clinical picture. Paraclinical diagnostic methods in localized and generalized forms of meningococcal infection. Changes in blood test and cerebrospinal fluid analysis in meningococcal meningitis. Differential diagnosis of meningococcal meningitis, meningococcemia. Complications and sequelae in meningococcal infection. Principles of treatment of meningococcal infection depending on the clinical form of the disease. Urgent medical assistance in severe forms of meningococcal infection (septic shock grade I, II, III and acute cerebral edema).</p>



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VIII. PROFESSIONAL (SPECIFIC) (SC) AND TRANSVERSAL (TC) COMPETENCES AND STUDY FINALITIES

✓ Professional (specific) (SC) competences

- PC1.** Responsible execution of professional tasks with the application of the values and norms of professional ethics, as well as the provisions of the legislation in force
- PC2.** Adequate knowledge of the sciences about the structure of the body, physiological functions and behavior of the human body in various physiological and pathological states, as well as the relationships between health, physical and social environment
- PC3.** Resolving clinical situations by developing a plan for diagnosis, treatment and rehabilitation in various pathological situations and selecting appropriate therapeutic procedures for them, including the provision of emergency medical care
- PC4.** Promoting a healthy lifestyle, applying prevention and self-care measures
- PC5.** Interdisciplinary integration of the doctor's activity in a team with efficient use of all resources
- PC6.** Carrying out scientific research in the field of health and in other branches of science

✓ Transversal competences (TC)

- TC1.** Autonomy and responsibility in the activity.

✓ Study finalities

Upon completion of the course, the student will be able to:

- To know the evolutionary and age specificities of infectious diseases in children
- To know the methodology of early diagnosis of infectious diseases in children
- To understand the principles of clinical, laboratory and instrumental examinations in differential diagnosis of contagious diseases
- To know the particularities of the diagnostic algorithm for the argumentation of a personalized etiopathogenic and symptomatic treatment
- To take optimal decisions in granting emergency medical assistance to patients with infectious diseases in critical situations
- To be able to acquire daily the new achievements in infectious diseases and to perform interdisciplinary clinical synthesis (microbiology, neurology, pediatrics, etc.)

IX. STUDENT'S SELF-TRAINING

Nr.	Expected product	Implementation strategies	Assessment criteria	Implementation terms
1.	Work with information sources and National Clinical Protocols	Reading the lecture and the material in the manual on the subject Reading questions on the subject, which requires a reflection on the subject	Ability to extract the essentials, interpretive abilities. The quality of systematization of the information obtained	During the module



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		Work systematically in the library and media library. Exploring current electronic sources on the topic	through its own activity.	
2.	Work with online materials	Studying on-line materials on the discipline web site, and on other sites with specialized databases and literature	Presentation of information in practical works and seminars	During the module
3.	Preparing presentations and reports	Analysis of relevant bibliographic sources for the topic. Analysis, systematization and synthesis of information on the proposed theme. Compilation of the report in accordance with the requirements in force and its presentation	The volume of work, the degree of penetration in the essence of the report, the level of argumentation, the quality of the conclusions, the presentation method.	During the module
4.	Examination of patients during practical work	Patient examination, correct assessment of data obtained from the patient's immediate examination, paraclinic data; tactics of diagnosis, differential diagnosis and individualized treatment	Correct formulation and argumentation of the patient's diagnosis, investigation plan and treatment	During the module
5.	Case study analysis	Choice and description of the case study. Analysis of etiological factors, results of laboratory and paraclinical investigations, treatment plan in the case study. Prognosis of the case investigated.	Analysis, synthesis and argumentation of data obtained through own investigation. Formation of an algorithm of knowledge based on the obtained conclusions	During the module

X. METHODOLOGICAL SUGGESTIONS FOR TEACHING-LEARNING-ASSESSMENT

● Teaching and learning methods used

In teaching Infectious Diseases in Children, different teaching methods and procedures are used aimed at learning and achieving the objectives of the teaching process, such as: course support, practical lesson, notes, clinical debate, situation simulation, group and individual work methods, the study of curricular documents, essays, portfolios and essays of the bibliography.
The seminars are held using extensive clinical and illustrative material (tables, diagrams, microphotographs) and thematic tests.



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Practical lessons are expected:

- At the patient's bedside, with the examination and discussion of thematic patients, with the interpretation of laboratory and paraclinical investigations, estimation of the treatment scheme
- Involvement of beneficiaries in the presentation of clinical cases with various infectious pathologies
- Holding practical lessons in an interactive manner, by approaching the teaching strategy focused on active and interactive learning: multidirectional communication with training of training skills
- At the end of each chapter discussed, the reader makes a generalization
- Additional documentation in the library, on specialized electronic platforms and in the field

Recommended learning methods

- **Observation.** Determination of clinical and paraclinical features depending on the age of infectious diseases in children
- **Analysis.** Accentuate the essential elements. Studying each element as part of the whole
- **Analysis of Infectious Diseases.** Select the required information. Recognition and description of infectious diseases detected.
- **Classification.** Determination of the criteria on the basis of which the classification of infectious diseases must be carried out.
- **The didactic and research activity** consists in the preparation by the beneficiaries of the reference materials in the field of infectious diseases in children, of the illustrative materials, of the synthesis reports, the participation with communications at clinical, scientific-practical conferences, etc.

● **Applied (specific to the discipline) teaching strategies / technologies**

Strategies (applied didactic technologies specific to the discipline) Exposition, interactive lecture, group work, individual study, work with the textbook and the scientific text, solving case-problem situations, simulation, interactive listening

✓ **Methods of assessment (including the method of final mark calculation)**

Current: Front and / or individual control by:

- A. Application of docimological tests
- B. Solving problems / exercises
- C. Analysis of case studies, essays, reports
- D. Making role-plays on the topics discussed
- E. Control works

Final: Exam by module. The modality / Final grade will consist of the average grade from 2 control (*Infectious diseases with aerogenic portal of entry and Infectious diseases with digestive portal of entry*) assessments and individual work (part 0.5), the final test in a computer system (part 0.3) and practical skills (part 0.2).

Method of mark rounding at different assessment stages

Intermediate marks scale (annual average, marks from the examination stages)	National Assessment System	ECTS Equivalent
1,00-3,00	2	F



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Intermediate marks scale (annual average, marks from the examination stages)	National Assessment System	ECTS Equivalent
3,01-4,99	4	FX
5,00	5	E
5,01-5,50	5,5	
5,51-6,0	6	
6,01-6,50	6,5	D
6,51-7,00	7	
7,01-7,50	7,5	C
7,51-8,00	8	
8,01-8,50	8,5	B
8,51-9,00	9	
9,01-9,50	9,5	A
9,51-10,0	10	

The average annual mark and the marks of all stages of final examination (computer assisted, test, oral) - are expressed in numbers according to the mark scale (according to the table), and the final mark obtained is expressed in number with two decimals, which is transferred to student's record-book.

Absence on examination without good reason is recorded as "absent" and is equivalent to 0 (zero). The student has the right to have two re-examinations in the failed exam.

XI. RECOMMENDED LITERATURE:

A. Compulsory:

1. KASPER, Dennis L., FAUCI, Anthony S., JAMESON, J. Larry, [et al.]. Harrison's manual of medicine / editors: -20th ed. - New York. McGraw-Hill, 2020.-xvii, 1246 p.
2. Nelson textbook of pediatrics. Vol. 1 / Robert M. KLIEGMAN, Joseph W. St Ceme III, Nathan J. BLUM [et al.]. - 21st ed. - Philadelphia: Elsevier, 2020.
3. Nelson textbook of pediatrics. Vol. 2 / Robert M. KLIEGMAN, Joseph W. St Ceme III, BLUM, Nathan J. [et al.]. - 21st ed. - Philadelphia: Elsevier, 2020.
4. Infectious diseases in children. Practical guideline for international students. Chişinău, 2023. 97 p.

B. Additional:

1. CHIOTAN, M. *Boli infecţioase*.- Bucureşti: Ed. Naţional, 2011.
2. KIMBERLIN, D.W., BRADY, M.T., JACKSON, M.A., LONG, S.S. Red book: 2018-2021: Report of the Committee on Infectious Diseases, 31st ed. - Itasca: American Academy of Pediatrics, 2018. - XLIX, 1213 p.
3. Mandell, Douglas, and Bennett's principles and practice of infectious diseases / [edited by] Gerald L. Mandell, John E. Bennett, Raphael Dolin. 7th ed.
4. MIKHAILOVA, A. M., MINKOV, I. P., SAVCHUK, A. I. *Infectious diseases in children*. Odessa State Medical University, 2003, 219 p. ISBN 966-7733-37-8
5. PILLY, E. *Maladies infectieuses et tropicales*. 2020.



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6. Protocoale Clinice Naționale. <http://msmps.gov.md/legislatie/ghiduri-protocoale-standarde/boli-infectioase-2/>
7. Protocoale clinice standardizate pentru medici de familie. <http://msmps.gov.md/legislatie/ghiduri-protocoale-standarde/boli-infectioase/>
8. RUSU, G., GALEȚCHI, X., POPOVICI, P.[et al.]. *Boli infecțioase la copii. Ghid practic pentru studenți*. Centrul Editorial-Poligrafic *Medicina*, Chișinău, 2015, 126 p.
9. RUSU, G., GALEȚCHI, X., SERBENCO, L., ALEXEEV, T. [et al.]. *Culegere de teste la boli infecțioase la copii*. Chișinău, 2016, 262 p.
10. RUSU, G., SERBENCO, L., ALEXEEV, T., BIRCA, L. [et al.]. *Boli infecțioase la copii. Manual (ediția a III-a)*. Chișinău, 2021, 384 p. ISBN 978-9975-157-45-2; 616.9-053.2(075.8)
11. STREINU-CERCEL, Adrian, ARAMĂ, Victoria, [et al.]. *Boli infecțioase: curs pentru studenți și rezidenți*. Editura Universitară „Carol Davila”, București, 2019, volumul 1. ISBN 978-606-011-063-7; 978-606-011-081-1.
12. STREINU-CERCEL, Adrian, ARAMĂ, Victoria, [et al.]. *Boli infecțioase: curs pentru studenți și rezidenți*. Editura Universitară „Carol Davila”, București, 2021, volumul 2. ISBN 978-606-011-063-7; 978-606-011-082-8.
13. УЧАЙКИН, Василий Фёдорович. *Инфекционные болезни у детей: Учебник / В. Ф. Учайкин, О. В. Шамшева. – Москва: ГЭОТАР-Медиа, 2018. - 800 с.*