

INSTRUCTION
for 6th year students of medical faculty
CHILDREN'S INFECTIOUS DISEASES

PLAN

Name of the section (topic)	Number of class hours	
	of lectures	practical
1. Infectious diseases in children, accompanied by exanthems and enanthems syndromes. Immunological prevention of infectious diseases in children	-	7
2. Infection of the respiratory system in children	-	7
3. Acute intestinal infections in children	-	7
4. Infectious diseases of the central nervous system in children	-	7
5. Herpetic infection in children. TORCH syndrome	-	7
Total hours	-	35

CONTENT OF EDUCATIONAL MATERIAL

1. Infectious diseases in children, accompanied by exanthems and enanthems syndromes. Immunological prevention of infectious diseases in children

Differential diagnostic signs of the main infectious diseases in children accompanied by exanthem and enanthem : scarlet fever, measles, rubella, enterovirus infection, parvovirus infection, pseudotuberculosis. Features of the clinical course of infections in young children, in vaccinated. Differential diagnosis at different periods of the disease.

Principles of etiotropic, pathogenetic and symptomatic therapy. Antiviral drugs. Indications for the appointment of antibiotics, drugs of choice depending on the etiology of the infectious disease. Measures of specific and non-specific prophylaxis.

Dates of immunization in children. Risk groups for immunization of children against influenza, hemophilic and pneumococcal infections. Types of immunobiological drugs, their advantages and disadvantages.

Contraindications to immunization. Complications, their clinical characteristics, therapeutic tactics.

Anaphylaxis in children: clinical manifestations, principles of emergency medical care.

2. Infectious lesions of the respiratory system in children

The relevance of the problem of acute respiratory infections (ARI) in children. The main infectious diseases accompanied by respiratory syndrome, their clinical and differential diagnosis. Acute pneumonia Whooping cough. Acute stenosing laryngotracheitis. Epiglottitis . Differential diagnosis of tonsillitis in children (adenovirus infection, infectious mononucleosis, streptococcal tonsillitis, oropharyngeal diphtheria). Criteria for assessing the severity of the condition of the child. Features of the course in children of the first year of life. Complications

Indications for hospitalization and treatment principles for children with acute respiratory infections and tonsillitis: etiologic, pathogenetic and symptomatic therapy. Antiviral drugs. Indications for the appointment of antibiotics. Features of oral detoxification in children. Indications for the appointment of antipyretic therapy. Measures of specific and nonspecific prophylaxis of ARI.

Laryngeal stenosis: clinical classification and criteria for assessing severity. Differential diagnosis of croup syndrome depending on the etiology (ARI, diphtheria, foreign body). Features of the clinical manifestations of respiratory failure in severe acute respiratory infections in children (pneumonia, bronchiolitis , obstructive bronchitis). Types and degrees of acute respiratory failure, principles of diagnosis, differential diagnosis. The provision of emergency medical care for stenosis of the larynx.

3. Acute intestinal infections in children

Etiology and clinical and epidemiological features of acute intestinal infections in children of different age groups. Pathogenesis of invasive, secretory and osmotic diarrhea. Differential diagnosis of viral (rotavirus, norovirus infection) and bacterial (salmonellosis, shigellosis , escherichiosis , staphylococcal infection, cambylobacteriosis) AII. Indications for hospitalization with AII.

Hemolytic-uremic syndrome: classification, pathogenesis, clinical manifestations in children, criteria for assessing the severity, patient management tactics.

Dehydration in children, clinical assessment. Rehydration therapy. Pathogenesis, clinical manifestations of hypovolemic shock in children with acute intestinal infections. Emergency medical care.

Helminthiasis in children: on the basic biological properties of pathogens (enterobiosis, ascariasis, toxocarosis), modern epidemiological aspects, pathogenetic mechanisms, the clinical picture, laboratory diagnostics, modern methods of treatment and prevention.

4. Infectious diseases of the central nervous system in children

The etiological structure of infectious lesions of the central nervous system (CNS) in children. Syndromic diagnosis of various levels of central nervous system

lesions, clinical symptoms. Differential diagnosis of infectious and non-infectious lesions of the central nervous system.

Serous meningitis: the main pathogens, early diagnosis, doctor's tactics, treatment, indications for the administration of etiotropic therapy. Etiological features, epidemiology, pathogenesis, clinical picture, diagnosis, treatment of primary and secondary purulent meningitis (meningoenkephalitis), the choice of etiotropic therapy, prevention.

Meningococcal infection: current epidemiological features, clinical classification, early diagnosis, differential diagnosis with infectious lesions of the central nervous system and exanthema of another etiology, diagnostic and treatment tactics. Acute adrenal insufficiency, emergency medical care.

Types of cerebral edema. Clinical manifestations of cerebral edema-swelling, emergency medical care, evaluation of effectiveness.

Neurotoxicosis : causes and pathogenetic mechanisms of the development of toxic brain damage in children, emergency medical care.

5. Herpetic infection in children. TORCH syndrome.

Classification of herpes viruses. Etiology, epidemiology, classification of diseases caused by herpes viruses, clinical picture depending on the type of herpes virus (localized and generalized forms of herpes infection caused by type 1 and 2 viruses, chicken pox, herpes zoster, infectious mononucleosis, acquired and congenital cytomegalovirus infection, sudden exanthema diseases caused by human herpes of types 7 and 8).

Laboratory methods for the diagnosis of herpetic infection.

Modern methods of treating herpesvirus infections in children. Antiviral drugs, their activity against different types of herpes viruses. Indications for the appointment of antiviral drugs in children, their application, the choice of antiviral drugs depending on the type of virus, indications for hospitalization.

Organization of sanitary and anti-epidemic measures in the outbreak of chickenpox.

Etiology, pathogenesis, risk factors for intrauterine infections in children. Differential diagnosis of various intrauterine infections included in the TORCH syndrome (T - Toxoplasmosis ; R - Rubella ; C - Cytomegalovirus ; H - Herpes simplex virus ; O - Other - others). Intrauterine parvovirus infection.

The principles of antenatal, intrapartum and postnatal prevention of intrauterine infections in children.

INFORMATION AND METHODOLOGICAL PART

LITERATURE

MAIN LITERATURE

1. Infectious diseases in children [Electronic resource]: textbook / Uchaikin VF, Shamsheva OV - M.: GEOTAR-Media, 2015 .-- 800 p. - Access mode: [http://www.studmedlib.ru/book/ ISBN9785970431658.html](http://www.studmedlib.ru/book/ISBN9785970431658.html) . - Date of access: 04.04.2019.

2. Uchaykin , V. F. Infectious diseases in children: a textbook / V. F. Uchaykin , O. V. Shamsheva. - Moscow: GEOTAR-Media, 2015 .-- 790 p., 28 p. col . incl. - Rec. GBOU DPO "Ros. honey. Acad. postgraduate degree . education. "

3. Harrison ' s infectious diseases / ed . DL Kasper, AS Fauci . - 3rd ed. - New York [et al.]: McGraw-Hill Education, 2017. - xix, 1307 p. : col. ill., tab., phot.

4. Manual of childhood infections / chief ed. Mike Sharland . - 4th ed. - Oxford: Oxford university press, 2016 .-- xxxv, 990 p. [4] col. inserts: ill., scheme, tab.

ADDITIONAL LITERATURE

1. Anishchenko, E. V. Acute respiratory diseases: clinic, diagnosis, treatment, prevention: textbook. Method. Benefit Infectious . diseases for students of 4.5 and 6 courses of all fac. honey. universities and infectious disease doctors / E. V. Anischenko, E. L. Krasavtsev. - Gomel: GomGMU , 2015 .-- 43 p.

2. Demchilo , A. P. Differential diagnosis of diarrhea syndrome and differentiated treatment of acute intestinal infections: textbook. Method. Benefit Infectious . diseases for students honey. un-ing medi ., med.- diagn . Fak. and fact. training specialists for zarub. countries by specialty lech . business, medical diagnosis . case / A.P. Demchilo , O.L. Tumash , E.L. Krasavtsev. - Gomel: GomGMU , 2015 .-- 34 p.

3. Demchilo , A. P. Meningococcal infection: textbook.-method. manual for 4-6 year students of all faculties of institutions of higher medical education / A.P. Demchilo , E.I. Kozorez, I.A. Razuvanova . - Gomel: GomGMU , 2019 .-- 30s .

4. Tumash , O. L. Differential diagnosis of fevers: textbook. Method. Benefit Infectious . diseases for students of 4.5 and 6 courses of all fac. honey. universities and infectious disease doctors / O. L. Tumash , E. I. Romanova. - Gomel: GomGMU , 2015 .-- 46 p.

5. Oxford specialist handbook of infectious disease epidemiology / ed. by I. Abubakar [et al.]. - Oxford: Oxford University Press, [2016]. - xx, 379 p. : ill., scheme, tab.

6. The Travel and tropical medicine manual / Ch. A. Sanford (and oth .). - 5th ed. - Edinburgh (et. Al.): Elsevier, 2017.-xiv, 646 p. : col. ill, scheme, tab .

ELECTRONIC DATABASES

1. Doctor's consultant. Digital Medical Library = Consultant of the doctor . Electronic medical library [Electronic resource] / Publishing group "GEOTAR-Media", LLC "IPUZ". - Access mode: <http://www.rosmedlib.ru/> . - Date of access: 04.04.2019.

2. Student advisor. Digital library of a medical university = Student consultant . Electronic library of medical high school [Electronic resource] / Publishing group "GEOTAR-Media", LLC "IPUZ". - Access mode: <http://www.studmedlib.ru> . - Date of access: 04.04.2019.

3. Scientific electronic library eLIBRARY.RU = Scientific electronic library eLIBRARY.RU [Electronic resource]. - Access mode: <https://elibrary.ru/> . - Date of access: 04.04.2019.

4. Oxford Medicine Online [Electronic resource] / Oxford University Press. - Access mode: www.oxfordmedicine.com . - Date of access: 04.04.2019.

5. Springer Link [Electronic resource] / Springer International Publishing AG. - Access mode: <https://link.springer.com> . - Date of access: 04.04.2019.

LIST OF PRACTICAL SKILLS

1. Medical history, physical examination of a child with an infectious disease .
2. Definition of the main meningeal symptoms .
3. Inspection of the patient's discharge with an assessment of pathological changes.
4. Interpretation of the results of a general clinical study of blood, urine.
5. Interpretation of the results of a biochemical blood test .
6. Interpretation of coprogram results .
7. Interpretation of the results of molecular genetic studies of blood in viral hepatitis.
8. Interpretation of the results of an immunological blood test for markers of parenteral viral hepatitis.
9. Interpretation of the results of a general clinical study of cerebrospinal fluid.
10. Taking biological samples for bacteriological culture.
11. Interpretation of the results of bacteriological inoculation of biological samples.
12. Making a rehydration therapy plan .
13. Providing medical care in emergency conditions that complicate the course of infectious diseases in children.