Algorithms for preparation to OSCE-2 Station 12 "Internal medicine. Written" Discipline: Infection diseases

1. Algorithms for the task

Cholera

- make a preliminary diagnosis,

- determine the degree of dehydration according to the WHO classification

- Assign the methods of study required to confirm the diagnosis and evaluate the degree of dehydration

- prescribe pathogenetic and etiotropic treatment based on the degree of dehydration of the patient.

1. The diagnosis of cholera is established according to the classification MKH-10 (A00 Cholera), taking into account clinical and epidemiological criteria:

- staying in the cholera endemic region;

- drinking water from open water, contact with patients with cholera or similar clinical picture;

- the duration of the incubation period up to 5 days (on average 2-3 days);

- acute onset of the disease;

- no fever;

diarrhea without pain prior to vomiting;

- frequent feces by the type of rice broth;

- rapid increase of dehydration;

2. According to the WHO guidelines, the following are the levels of dehydration:

1. Early dehydration. Either without clinical signs, or complaints of moderate weakness, thirst, dry mouth.

2. Moderate dehydration. Thirst, weakness, dizziness, irritability. Reduction of skin turgor, voice hoarseness, acrocyanosis, cold extremities. Tachycardia, moderate hypotension. Reduction of diuresis.

3. Severe dehydration. Sleepiness or confusion. Sharp reduction of skin turgor, sore eyes, symptom of "dark glasses", generalized cyanosis, cold extremities. Pulse is weak or undetectable. Blood pressure is very low or undetectable. Anury.

3. Laboratory criteria for the diagnosis of cholera are: increase in hematocrit, hypokalemia, hypochloremia, a specific method is bacteriological examination of feces or vomiting.

4. The main direction of treatment of the patient is rehydration therapy with the use of saline solutions. Oral rehydration mixtures are prescribed for those with initial and moderate dehydration without vomiting. For patients with moderate rehydration, accompanied by vomiting and severe degree of dehydration, parenteral rehydration is required.

To accelerate the elimination of vibrios from the body in cholera with dehydration in the event of discontinuation of vomiting, doxycycline 0.3 g or azithromycin 1 g inside is prescribed once

Typhoid

- make a preliminary diagnosis
- name the specific complications of the disease
- identify the materials you want to explore
- Assign the methods of investigation required to confirm the diagnosis
- Prescribe etiotropic treatment of the patient and determine its duration.

1. The diagnosis of typhoid fever was established according to the classification MKH-10 (A01.0 Typhoid fever), taking into account clinical and epidemiological criteria:

- contact with patients and or stay in places endemic to typho-paratyphoid infections;
- gradual onset of the disease with fever and tendency to its constant character;
- pallor of the skin;
- tendency to relative bradycardia, hypotension.
- tendency to inhibit nervous activity, apathy;
- disturbance of the sleep formula, persistent headache;
- characteristic plaque on the tongue;
- tendency to constipation;
- hepatolyenial syndrome;
- the appearance of a rashous rash.

2. Specific complications of typhoid fever are intestinal bleeding, bowel perforation, ITS.

3. It is necessary to examine the blood, cal

4. The methods of examination for suspected typho-paratyphoid disease include ZAC, which is characterized by leukopenia with lymphocytosis, aneosinophilia, thrombocytopenia, anemia.

Specific diagnostics are carried out by bacteriological method, first of all blood culture (hemoculture).

The serological method can be used to confirm the diagnosis from 2 weeks of illness. Used RA (Vidal reaction), RNGA, ELISA.

5. Etiotropic treatment: chloramphenicol (levomitsetin) 0.5 g 5 times a day to 2 days normaltemperature, then 0.5 4 times a day to 10 days normaltemperature. It is also possible to use cephalosporins, fluoroquinolones.

Leptospirosis

- make a preliminary diagnosis

- prescribe the methods of study required to evaluate the functional status of the affected organs

- prescribe etiotropic and pathogenetic treatment of the patient.

1. The diagnosis of leptospirosis was established according to the classification MKH-10 (A27.0 Leptospirosis) taking into account clinical and epidemiological criteria:

- contact with water from non-flowing and open reservoirs;

- stay in rodent locations;

- professional factor (livestock, veterinarians, farmers, hunters, fishermen, etc.);

- sudden onset of illness with chills;

- high heat;

- Myalgia, especially the calf muscles;
- hemorrhagic syndrome;

- liver pathology with possible development of jaundice;

- kidney pathology with possible development of LV.

2. Research methods for confirmation of the diagnosis: detection of leptospira during microscopy in the dark field, RNGA, RZK, functional tests of the liver, urea, creatine, coagulogram.

3. Etiotropic treatment: benzylpenicillin, cephalosporins.

Pathogenetic treatment: detoxification, hemostatics, forced diuresis.

Viral hepatitis A

- make a preliminary diagnosis;

- prescribe the research methods necessary to confirm the diagnosis;

- determine the principles of treatment of the patient.

1. The diagnosis of viral hepatitis A (CAA) was established according to the classification MKH-10 (B15. Acute CAA), taking into account clinical and epidemiological criteria:

- the development of the disease after contact with a patient with HAV or stay in a disadvantaged region with regard to HAV;

- cyclical development of the disease with the appearance of characteristic syndromes of the pre-yellowish period (dyspeptic, pseudoglucose, asthenovegetative);
- reduction of intoxication, jaundice, hepatosplenomegaly during the height of the disease.

2. Research methods include: biochemical blood test: total bilirubin and its fractions,

ALT, ACAT, thymol sample. Specific diagnosis: serum ELISA on aHAVIgM.

3. Principles of treatment: detoxification therapy, enterosorbents, vitamins.

Viral hepatitis B

- make a preliminary diagnosis

- identify the complication that has developed in the patient

- Assign a mandatory biochemical study

- Assign the methods of investigation required to confirm the diagnosis

- prescribe specific disease prevention.

1. The diagnosis of viral hepatitis B (HBV) was established according to the classification MKH-10 (B16. Acute HBV), taking into account clinical and epidemiological criteria:

- Positive epidemiological history (information on hemocontact or sexual transmission);

- Long period of jaundiceperiod, frequent arthralgicguarantee its course;

- increase in intoxication, jaundice, hepatosplenomegaly period of the disease.

2. The most serious complication of HBV is acute liver failure (acute liver encephalopathy), which is divided into stages by the degree of neuropsychiatric disorders:

Stage I is characterized by emotional lability, euphoria, changing apathy, sleep inversion, moving disorders, and impaired memory.

Stage II is characterized by disorientation in space and time, memory lapses, possible psycho-motor arousal, hemorrhagic syndrome, jaundice, decrease in liver size, tachycardia.

Stage III (Coma 1) - complete disturbance of consciousness, tremor, convulsions, pathological reflexes.

Stage IV (Coma 2) - complete loss of consciousness, areflexia, deep breathing disorders.

3. Methods for biochemical blood testing include: total bilirubin and its fractions, ALT, ACAT, thymol sample, prothrombin index.

4. Specific diagnosis: HBsAg, HBeAg, aHBcIgM, HBV DNA PCR.

5. Specific prevention of the disease - vaccination.

Flu

- make a preliminary diagnosis of the provided clinical scenario,

- name the systems from which complications of a disease are possible,

- prescribe the research methods necessary to confirm the diagnosis,

- name the drug for the etiotropic treatment of the patient

- prescribe specific disease prevention.

1. The diagnosis of influenza has been established according to the classification MKH-10 (J.09 Influenza), taking into account clinical and epidemiological criteria:

- Contact with flu patients, presence of epidemic in certain area;

- Acute onset of intoxication syndrome, maximum manifestations of the disease in the first hours of the disease;

- Headache with predominant localization in the frontal area and temples;

- Catarrh syndrome is characterized by tracheitis, soft palate granules and brackets

2. The complications of influenza are observed by the respiratory (hemorrhagic pulmonary edema, pneumonia), nervous (swelling-swelling of the brain) and cardiovascular system (myocarditis).

3. For rapid diagnosis of the disease use rapid tests for rapid diagnosis.

4. Neuraminidase inhibitors - oseltamivir (tamiflu) are used for the etiotropic treatment of the patient.

5. Specific prevention of the disease - vaccination.

7. The algorithm of the task

Oropharyngeal diphtheria:

- make a preliminary diagnosis of the patient,

- assign necessary instrumental and specific studies,

- determine the need for hospitalization of the patient and the main methods of treatment,

- Name the method of specific prevention.

1. Diagnosis of pharyngeal diphtheria was established according to the classification MKH-10 (A 36.0 Diphtheria of the pharynx (diphtheria membranous angina,

tonsillary diphtheria)), taking into account clinical and epidemiological criteria:

- the onset of the disease is usually acute

- there is intoxication syndrome that correlates with local changes

- there is a layer on the tonsils or other lymphoid formations in the oropharynx, which have fibrinous, filmy nature

- Sore throat is moderate, often not consistent with the nature of local changes

- the voice can acquire a tinge

- Mucous edema and cyanosis predominate over hyperemia

- maxillary and cervical lymph nodes enlarged, moderately painful

2. Instrumental research methods: ECG

Specific research methods:

- Bacterioscopic method
- Bacteriological method

- PCR

- 3. Treatment:
- Compulsory hospitalization in an infectious hospital
- Anti-diphtheria antitoxic serum
- Antibacterials (erythromycin, benzylpenicillin)
- 4. Specific prevention: planned vaccination

8. The algorithm of the task

Three-day malaria

- formulate a preliminary diagnosis of the patient

- Assign necessary non-specific and specific studies

- determine the need for hospitalization of the patient and the main methods of treatment

- Name the method of specific prevention, its duration.

1. The diagnosis of malaria (three days) was established according to the classification MKH-10 (B 54 Malaria, unspecified, (B 51 Malaria caused by P. Vivax, B 53 Malaria caused by P. ovale)), taking into account clinical and epidemiological criteria:

- stay in malaria endemic areas (Africa, Asia Central and South America, etc.) for the last 2 years

- blood transfusions during the last 14 days
- paroxysmal fever (chills, fever, profuse sweating)
- during three days of malaria paroxysms recur after 1 day
- hepatosplenomegaly
- anemia
- 2. Basic research methods:
- ZAK
- Investigation of a thick drop on malaria
- Investigation of thin smear on malaria
- 3. Treatment:
- Compulsory hospitalization in an infectious hospital
- Etiotropic therapy: antimalarial drugs (Delagil (chloroquine), primaquine)

4. Specific prevention of malaria: chemoprophylaxis of antimalarial drugs (one week before departure, during the entire period of stay in the endemic area and within one week after return)

9. The algorithm of the task

Botulism

Please, in the provided clinical scenario:

- make a preliminary diagnosis and name the main clinical syndromes observed in the patient

- Name the specific research method

- determine the need for hospitalization of the patient, the main methods of treatment and their priority.

1. The diagnosis of botulism was established according to the classification MKH-10 (A 05.1 Botulism), taking into account clinical and epidemiological criteria:

- the consumption of products that may contain botulotoxin (meat, fish, vegetables, canned mushrooms, salted or salted fish, sausage)

- no fever

- disorders of the digestive tract - pain in the epigastric region, vomiting, rare bowel movements, which next day change to bowel paresis syndrome (bloating, constipation)

- Ophthalmoplegic syndrome (reduced vision, double vision, "mesh", "mist" before the eyes, pupils dilated, anisocoria, reaction to light is weak)

- Bulbar syndrome (difficulty swallowing, complaints of "lump in the throat" of fluttering, the voice acquires a tinge tinge)

2. Specific research method: biological method

3. Treatment:

- Compulsory hospitalization in an infectious hospital

- The first stage: gastric lavage (using a probe) and intestines (siphon enema) with

5% sodium hydrogen carbonate solution;

- The second stage is a polyvalent anti-botulinum serum

- The third stage - detoxification therapy, hyperbaric oxygenation

The task execution algorithm

Shigellosis

Please, in the provided clinical scenario:

- formulate a preliminary diagnosis of the patient
- indicate the most likely complications of the disease
- Assign necessary non-specific and specific studies
- identify the main treatments.

1. The diagnosis of shigellosis was established according to the classification MKH-

10 (A 03 Shigellosis), taking into account clinical and epidemiological criteria:

- use of suspected product agent (especially meat and dairy) contamination, contact with the patient, poor living conditions

- sharp start, feverish
- compliance with the degree of intoxication of fever pitch
- abdominal pain, especially in the left iliac and iliac regions
- frequent scarring, with mucus and streaks of blood
- soreness, spasm and consolidation of the sigmoid colon
- tenesmus
- 2. Complications:

- ITS

- Intestinal bleeding
- Intestinal perforation and peritonitis
- 3. Basic research methods:
- ZAK
- Coprogram
- Bacteriological examination of faeces
- Serological studies: RNGA, RA
- 4. Treatment:

- Etiotropic treatment: antibacterial drugs (Ciprofloxacin or other non-respiratory fluoroquinolones)

- Pathogenetic treatment: detoxification therapy, enterosorbents, hemostatic therapy

11. The task execution algorithm

HIV infection

Please, in the provided clinical scenario:

- formulate a preliminary diagnosis of the patient

- indicate the clinical stage of the disease by WHO and what opportunistic infection can be suspected in the patient

- what specific studies need to be done in the first phase

- identify the most dangerous biological fluids of the patient.

1. The diagnosis of HIV infection is established according to the classification MKH-10 (B 20 Diseases caused by HIV, which is accompanied by infectious and parasitic

diseases), taking into account clinical and epidemiological criteria:

- anamnesis data (injecting drug use, sexually transmitted or parenteral diseases, "risk behavior"

- clinical manifestations of the relevant stage of the disease

- in the general blood test: moderate hypochromic anemia, thrombocytopenia, neutropenia, increased ESR.

2. Clinical stages of the disease according to WHO:

CLINICAL STAGE I

- Asymptomatic

- Persistent generalized lymphadenopathy

CLINICAL STAGE II

- Weight loss up to 10% of the initial

- Minimal lesions of skin and mucous membranes (seborrheic dermatitis, fungal nail lesions, recurrent ulceration of the oral mucosa)

- An episode of shingles in the last 5 years

- Recurrent upper respiratory tract infections

CLINICAL STAGE III

- Weight loss more than 10% of the original

- Unmotivated chronic diarrhea of more than 1 month duration.

- Unmotivated fever (intermittent or constant) lasting more than 1 month.

- Candidiasis of the oral cavity (edema and hyperemia of the mucous membrane of the oropharynx, white loose layers).

- Hairy leukoplakia of the oral mucosa

- Often recurrent shingles

- Pulmonary tuberculosis, which developed during the year preceding the examination

- Severe bacterial infections

- Generalized lymphadenopathy usually persists

CLINICAL STAGE IV

- Exhaustion syndrome (cachexia) on the background of HIV infection

- Pneumocystis pneumonia
- cerebral toxoplasmosis
- cryptosporidiosis with diarrhea more than 1 month.
- extra-lungcryptococcosis

- cytomegalovirus infection with lesions of any organs except the liver, spleen or lymph nodes

- infection caused by herpes simplex virus, with lesions of the internal organs or chronic lesions of the skin and mucous membranes

- progressive multiple leukoencephalopathy
- any endemic mycosis
- candidiasis of the esophagus, trachea, bronchi or lungs
- disseminated non-tuberculous mycobacteriosis
- Salmonella septicemia (except S.typhi)
- extra-pulmonary tuberculosis
- Kaposi's sarcoma
- HIV encephalopathy
- 3. Research methods:
- HIV rapid test
- ELISA
- PCR
- Immunoblotting
- The level of immunosuppression, CD4 / CD8

4. The most dangerous biological fluids of the patient: blood, breast milk and vaginal secretions - in women, semen - in men

Tetanus

- Make a preliminary diagnosis of the patient and determine the clinical form
- name the most likely early complications of the disease

- determine the need for hospitalization of the patient and prescribe the basic method of specific therapy

- what drugs for emergency specific disease prevention should be used after the injury?

1. The diagnosis of generalized tetanus was established according to clinical classification (generic tetanus, local tetanus, main tetanus, neonatal tetanus), taking into account clinical and epidemiological criteria:

history of injury or trauma, burns, frostbite, surgery, childbirth, abortion in outpatient settings, as well as information on prior vaccination against tetanus
the presence of the classic early triad of symptoms (trismus, sargeonic smile, dysphagia)

- Constant tonic muscle tension (opistotonus)
- tetanic cramps
- Consciousness during the trial
- feverish
- profuse sweating
- 2. The most likely early complications
- Bronchitis or pneumonia or pulmonary edema
- Fractures of bones and spine
- Tendon tears
- Myocardial infarction or myocarditis
- 3. Treatment:
- Compulsory hospitalization in an infectious hospital
- The main method of specific therapy: anti-toxic antitoxic serum
- 4. Drugs for specific prevention
- Anti-toxic serum
- Right toxoid
- Human unlawful immunoglobulin

Plague

- Make a previous diagnosis

- Assign the examination methods required to confirm the diagnosis

- Determined the need for hospitalization of the patient

- What are the most effective means of biotiotropic therapy for the patient and prevention of this disease

1. The diagnosis of the plague is established according to the classification MKH-10 (A20.0 Plague, bubonic form), taking into account the clinical and epidemiological criteria:

- Sharp start

- Hot

- Severe intoxication

- Serous hemorrhagic inflammation of the lymph nodes and severe local pain at the site of tambourine

2. Examination methods

- Bacterioscopic (examine gram stained, methylene blue or treated with a specific luminescent serum smears, reveal a formidable form of gram negative sticks, bipolarly stained)

- Bacteriological (sowing of material on Marten or Hottinger agar with sodium sulfite, IPB followed by crop identification and virulence determination)

- Serological (RPGA, RGPA, RNAh, PHA, ELISA with mono- or polyclonal antibodies). For rapid diagnostics use RIF (100% specificity)

- Allergic test with pestin

- Biological method (intraperitoneal, subcutaneous, intradermal injection of guinea pig material or white mice)

- PCR

3. Plague according to international health standards is a particularly dangerous disease

Plague patients are subject to compulsory hospitalization in specialized hospitals that work in strict anti-epidemic mode.

4. Means of etiotropic therapy

- Streptomycin 30 mg / kg / day 7-14 days to 5 days of normal temperature

- Levomycetin 80 mg / kg / day

5. Prevention

- Vaccination of high-risk groups

- Antibiotic prophylaxis is prescribed by contact (ciprofloxacin 0.4 g twice daily or doxycycline)

Erysipelas

- Make a previous diagnosis

- Make a plan for examination of the patient

- Determined the need for hospitalization of the patient

- What is the patient's principle of treatment and the drugs that are used for it, drugs for the prevention of recurrent disease

1. The diagnosis of erysipelas was established according to the classification MKH-10 (A46 Erysipelas, erythematous-bullous form), taking into account the clinical and epidemiological criteria:

- Acute onset of fever and intoxication

- Later occurrence of local manifestations

- The patient has peculiar signs of inflammation of the skin (erythema with a clear outline - "flames", "geographical map" and the inflammatory roller on the periphery, the appearance of bullous and hemorrhagic elements, lack of rest), lymphangitis and regional fatigue with primary bladder and one that was previously observed once (repeated bladder), or a similar pathological condition that is repeated several times (in chronic bladder).

2. With mild and moderate disease, treatment is possible under the conditions of CPMSD.

In severe cases and complicated forms of erysipelas, hospitalization in an infectious hospital is required.

3. Antibacterial therapy (etiotropic) is a leading treatment for erysipelas.

The antibiotic of choice is penicillin (1 million units 6 times a day for 7-10 days). Also used are aminopenicillins, cephalosporins, macrolites, fluoroquinolones.

Pathogenetic therapy includes the following areas: dint-toxic, anti-inflammatory. The basis of prevention of recurrence of erysipelas is systematic bicillin prophylaxis (bicillin-5), rehabilitation of chronic foci of infection, stabilization of chronic diseases, correction of the body's immune status.

Salmonellosis

- Make a preliminary diagnosis and its complications

- Assignmetilaboratorydiagnosis for examination of the patient

- Determined the need for hospitalization of the patient

- What is the patient's principle of treatment and the drugs that are used for this purpose

1. The diagnosis of salmonellosis is established according to the classification MKH-10 (A02.0 Salmonellosis enteritis), taking into account the clinical and

epidemiological criteria:

- Transmission mechanism - fecal-oral, animal products of avian origin (eggs, meat, milk, dairy products)

- Incubation period from 2-6 h to 2-3 days

- The main clinical form of salmonellosis is enteritis

- Hot

- intoxication

- Diarrheal syndrome with greenish discharge, dehydration or infectious-toxic shock

- Possible development of sepsis with tufts or septicemia

2. The examination of the patient should be included

- General blood test (leukocytosis, neutrophil shift of leukocyte formula to the left, aneosinophilia, toxic granularity of neutrophils, acceleration of ESR)

- Coprogram (starch grains, muscle fibers, undigested fiber, fats, fatty acid soaps, pathological impurities - mucus, leukocytes, uncommon erythrocytes)

- Bacteriological examination of feces (with enteritis), blood and urine (with process generalization). The dog will be fed to dense differentiation media (bismuth-sulfite agar, Endo, Ploskireva), enrichment media, bile broth, MPB

- Serological diagnosis is used at the end of 1 week and after 7-10 days. You can use RA (diagnostic titer1: 160)

3. Patients with salmonellosis sepsis, severe enteritis, severe background diseases should be treated at the hospital.

4. Antibacterial drugs are shown only in the dominant signs of distal colitis, development of complications (ITS, collapse, LV, acute cerebral circulation, myocardial infarction, otitis, endo- and myocarditis, thrombosis of mesenteric vessels). Preference is given to fluoroquinolones.

The main focus of salmonellosis treatment is detoxification and rehydration measures. In cases of ITS, glucocorticosteroids are added to pathogenetic staining

Rabies

- Establish a preliminary diagnosis and stage disease

- Assign a method-specific confirmation of the diagnosis

- Determined the need for hospitalization of the patient

- What is the principle of treatment of the patient, emergency prevention of the disease

1. The diagnosis of rabies is established according to the classification MKH-10 (A82.0 Rabies), taking into account the clinical and epidemiological criteria:

- The duration of the incubation period is 7 days-1 year, with an average of 30-90 days

- A bite, a history of an animal being harbor

- Clinical picture, which in a typical form undergoes three consecutive stages: predictors, arousal, paralytic.

- Hydro-, aero-, acousticphobia

- Excitement attacks

- Hyper salivation

2. In the case of a sentence specific life-long diagnosis is possible

- Examination of the cornea and biopsy of the nape of the neck using ELISA

- Isolation of the virus from saliva by intracerebral infection of newborn mice or cultivation of the virus by tissue culture of murine neuroblastoma

- PCR with saliva of the patient

Postmortem diagnosis can be confirmed by the following methods:

- Detection in the nerve cells of the brain of the dead pathognomonic calves Negri

3. Immediate hospitalization in ORIT is shown

4. Therapeutic measures are aimed at reducing the patient's suffering (symptomatic treatment)

Emergency prophylaxis is to administer a 1 ml anti-rabies vaccine according to the regimen 0, 3, 7, 14, 30, 90 days

Typhus

- Make a previous diagnosis

- Assign a method-specific diagnosis for examination of the patient

- Determined the need for hospitalization of the patient

- What is the patient's principle of treatment and the drugs that are used for this purpose

1. The diagnosis of typhoid fever was established according to the classification MKH-10 (A75.0Epidemic louse fever caused by Provasek's rickety), taking into account clinical and epidemiological criteria:

- The presence of patients and typhus, louse

- Acute onset of fever, headache

- Characteristic behavior of the patient with a tendency to excite the CNS (hallucinations, euphoria)

- Typical appearance of the patient; subtle hyperemia and puffiness of the face, red eyes with characteristic shine ("drunken face" and "rabbit eyes")

- Positive symptoms of Chiari, Landorf-Rosenberg, Godele-Remlinge, Deach

- Occurrence from 4-5 days of illness after temperature "incision" of a typical polymorphic rheolyoso-petechial rash on the body of the trunk and extremities with the appearance of secondary petechiae in the center of the roses

- Development during the height of typhoid status, delirium

- The prevalence of encephalitic disorders and meningeal disorders

- Moderate enlargement of the liver and spleen

- Characteristic temperature curve (duration 2-2,5 weeks) with two "indentations"

2. Specific diagnosis is carried out by serological reactions:

- Rickettsial Agglutination Reaction (PAP) - a first-order reaction, considered positive when diluting serum 1: 40-1: 80

- RNGA - secondary level reaction, diagnostic titer 1: 1000-1: 2000

- RNIF - the most sensitive, recommended by WHO as the gold standard, credits at the end of 1 week 1: 320-1: 2560, for 10-15 days - 1: 2560-1: 10240

3. All patients are subject to compulsory hospitalization

4. Apply etiotropic treatment (antibiotics, eg doxycycline), pathogenetic

(detoxification, ACS, proteolysis inhibitors, anticoagulants, sedatives or tranquilizers)

Anthrax

- Establish a preliminary diagnosis

- Assign a method-specific diagnosis for examination of the patient

- What is the patient's principle of treatment and the drugs that are used for this purpose

1. The diagnosis of anthrax was established according to the classification MKH-10 (A22.0 Skin form of anthrax), taking into account clinical and epidemiological criteria:

- Care of sick animals, whitening of dead animals, collapsing of meat, handling of contaminated raw materials (animal skin, etc., consumption of meat of unknown origin)

- The appearance of the spot accompanied by itching and its rapid transformation (within a few hours) into a blister and then into an ulcer

- The nature of the ulcer (dark scab, swollen roller, tricolor coloration of inflammation, no pain at the location of the ulcer)

- Baby bubbles around the ulcer (symptom of "pearl necklace")
- Jelly painless widespread tissue swelling

- Shabby tremor of swelling when tapped with a percussion hammer (Stefan's symptom)

2. The examination of the patient includes the following items:

- ZAK (leukocytosis, neutrophilosis, acceleration of ESR)
- ZAM (proteinuria, lecocyturia)
- Bacterioscopic method
- Bacteriological method
- Biological method (infection of laboratory animals)
- Serological reactions (RAS, RNA, ELISA)
- Intracutaneous allergic test with anthraxin
- PCR

3. The patient is subject to mandatory hospitalization in an infectious hospital

4. The patient is prescribed:

- Etiotropic therapy (penicillin 1-2 million IU 6 times a day for 7-10 days)

- Pathogenetic therapy (detoxification)

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- Pathogenetic therapy (detoxification)

Lyme disease (systemic tick borreliosis, Lyme borreliosis)

- make a preliminary diagnosis of the provided clinical scenario,

- prescribe methods of specific diagnostics for examination of the patient,

- determine the need for hospitalization of the patient,

- Name the principles of treatment of the patient and the drugs used for this purpose

1. The diagnosis of Lyme disease (systemic tick borreliosis, Lyme borreliosis) was established according to the classification MKH-10 (A 69.2 Lyme disease), taking into account clinical and epidemiological criteria:

- staying in endemic terrain, visiting the forest, finding squeezed mites

- presence of intoxication syndrome, fever

- typical migratory erythema at the site of suction mite (erythematous lesion of the skin with enlightenment inside)

2. Specific studies:

- serological studies (ELISA, RNIF)

- bacteriological examination (detection of pathogen in cerebrospinal fluid, skin biopsy)

- PCR

3. Treatment:

- Easy course - outpatient treatment, moderate and heavy course - hospitalization

- Antibiotic therapy (doxycycline, amoxicillin or cephalosporins)

- Detoxification therapy

Measles

- make a preliminary diagnosis of the provided clinical scenario,
- name the possible complications of the disease,
- prescribe the research methods necessary to confirm the diagnosis,
- list the principles of treatment of the disease
- determine the time of isolation of the patient and specific prevention of the disease.

1. The diagnosis of measles was established according to the classification MKH-10 (B05.9Cirs without complications), taking into account clinical and epidemiological criteria:

- Contact with measles patients;
- Fever, intoxication, Stimson triad, Koplik spots;
- Expressed spotty-papular exanthema, which tends to merge, its descending sequence;
- 2. Complications of the disease: pneumonia, encephalitis.

3. Specific diagnosis - detection of measles virus IgM antibodies. Instrumental research - OGC radiography

- 4. Treatment principles: detoxification, antihistamines, vitamins.
- 5. The period of isolation of the patient up to 4 days after the rash.

Specific prevention - vaccination.