INTERNATIONAL HIGHER SCHOOL OF MEDICINE

Department of Infectious Diseases

SYLLABUS
Nipah virus disease (elective)
2024-2025 academic year
for students of medical faculty
5 course X semester, groups 1-50
1,0 credits (36 h, including auditoria 18 h, independent work – 18 h)

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Venue: Republican Clinical Infectious Diseases Hospital, 70 L. Tolstoy str.
Department of Infectious Diseases of HISM

The Syllabus is considered
at the meeting of the department of Infectious diseases
Protocol № 2 dated 25.08.2024
Head of the department A.Z. Kutmanova

Course Objective: The elective course is to form additional knowledge and skills that provide clinical diagnosis of infection caused by the Nipah virus. And also in the formation of skills of rapid diagnosis using clinical and epidemiological data, laboratory and instrumental methods of examination of patients, differential diagnosis, the appointment of adequate treatment, including elements of emergency therapy.

After study of the discipline the student must:

Knowledge:
1. The structure of preventive and anti-epidemic measures, methods of epidemiological analysis
2. Specific laboratory methods to confirm the diagnosis, additional biochemical, clinical and instrumental research methods.
3. The algorithm for choosing therapeutic measures.

Skill:
1. Plan and organize preventive and anti-epidemic measures
2. To interpret the results of biochemical and clinical studies to identify the main criteria confirming the clinical diagnosis
3. Apply an algorithm for selecting therapeutic measures for infection caused by the Nipah virus in various clinical situations in accordance with the principles of evidence-based medicine.

Attitude:
1. Skills of conducting sanitary and epidemiological work in individual clinical cases
2. Skills of reasoned justification of clinical diagnosis
3. The skill of developing and correcting rational tactics of complex treatment of combined pathology, taking into account the dynamics of the patient's condition based on the principles of evidence-based medicine.

Prerequisites:
* Macro- and microanatomy
* Normal physiology
* Pathological anatomy
* Pathological physiology
* Microbiology, Virology and Immunology
* Propaedeutics
* Internal diseases
• General surgery
* Neurology and the basics of neurosurgery
* Dermatovenerology
* Outpatient therapy
* Epidemiology

Post-requisites. Family medicine.

THEMATIC PLAN OF LECTURES

№	Theme of lecture	Hours	Date
1	Outbreaks of the disease caused by the Nipah virus in the world, etiology.	2	26.08-31.05
2	Epidemiology, prevention	2	26.08-31.05
3	Pathogenesis, clinical manifestations, complications of Nipah virus disease.	2	26.08-31.05
4	Laboratory methods of diagnostics, treatment of Nipah virus disease.	2	26.08-31.05
	Total hours:	**8**	

THEMATIC PLAN OF PRACTICAL CLASSES

№	Theme of practical class	Hours	Date
UNIT 1. Etiopathogenesis, clinical characteristics, laboratory diagnostics, treatment			
1	Infection caused by the Nipah virus (Outbreaks of the disease caused by the Nipah virus in the world, etiology)	2	26.08-31.05
2	Infection caused by the Nipah virus (Epidemiology, prevention)	2	26.08-31.05
3	Infection caused by the Nipah virus (Pathogenesis, clinical manifestations, complications, laboratory diagnostic methods, treatment)	2	26.08-31.05
4	Unit control	2	26.08-31.05
	Total hours:	**8**	

THEMATIC PLAN OF INDEPENDENT WORK OF STUDENTS

№	Theme of independent work	Hours	Date
Unit 1. Etiopathogenesis, clinical characteristics, laboratory diagnostics, treatment (18 hrs)			
1	• working with lecture material; • search and review of literature; electronic sources of information on an individually given course problem; • preparation of presentations on a given topic	10	26.08-31.05
2	• writing a differential diagnosis of infection caused by the Nipah virus	10	26.08-31.05
	TOTAL	**20**	

Recommended reading for the discipline:
Basic:

1. Harrison's, Dennis L.Kasper, Anthony S. Fauci// Infectious Diseases// 2014 McGraw Hill / Medical
2. Manson's Tropical Infectious Diseases **,** 2014 Elsevier Ltd. All rights reserved.
3. Elaine C. Jong and Dennis L. Stevens Netter's, Infectious diseases, 2012, Elsevier Inc. All rights reserved

Additional:

1. Central team Ministry of Health and Family Welfare Government of India Clinical Management Protocol for Nipah Virus Disease, 2018, Ministry of Health and Family Welfare Government of India
2. Department of Health and Family Welfare Government of Kerala NIPAH Virus Infection. Guidelines for Surveillance, Diagnosis, Treatment, Prevention and Control 2021, Department of Health and Family Welfare Government of Kerala

Grading policy and procedures for all types of work

For the period of studying the discipline, the student gains points for the relevant parameters (per unit):
current score - 40 points
independent work - 20 points
control score (final assessment of knowledge per unit) - 40 points
Maximum score - 100 (40+20+40)

Grading system for student's achievements

Grading criteria per discipline				
Maximum score	**Intervals**			
	«unsatisfactory»	«satisfactory»	«good»	«excellent»
Current control - 40	0-23	24-30	31-35	36-40
Interval description	Does not perform the task, does not know and does not understand the lecture material of the lesson, which prevents further assimilation of the program; cannot apply the acquired knowledge to solving situational tasks, test questions. Does not answer the questions of the teacher During the examination of the	Does not complete the task in full, has gaps in the assimilation of lecture material, has difficulties in applying knowledge to solve situational problems, test questions; does not fully and accurately answer the teacher's questions. When examining a patient, he has	Performs the task in full, knows the lecture material, but sometimes makes mistakes when solving situational tasks and test questions, understands the main content of the lecture material, gives correct answers to the teacher's questions. During the	Performs the task in full, easily applies knowledge and skills in solving situational tasks and test questions, rarely makes mistakes, gives complete and correct answers to the teacher's questions. When examining a patient, he fully

			examination of the patient, he partially possesses practical skills	possesses practical skills
	patient does not have practical skills	little practical skills		
Independent work - 20	0-11	12-15	16-17	18-20
Interval description	Presentation, report, table, situational task are missing	The content of the presentation, report, tables partially correspond to the given topic, the sequence of presentation of theoretical questions is broken: etiology, pathogenesis, epidemiology, clinic, differential diagnosis, laboratory diagnostics, treatment and prevention. Situational tasks contain little description of the clinical case	The content of the presentation, report, tables do not fully correspond to the given topic, the sequence of presentation of theoretical issues (etiology, pathogenesis, epidemiology, clinic, differential diagnosis, laboratory diagnostics, treatment and prevention) is not fully preserved. Situational tasks do not fully contain a description of a clinical case	The content of the presentation, report, tables correspond to the given topic, the sequence of presentation of theoretical questions (etiology, pathogenesis, epidemiology, clinic, differential diagnosis, laboratory diagnostics, treatment and prevention) is completely preserved. Situational tasks contain a description of the entire clinical case
Control work (module) - 40	0-23	24-30	31-35	36-40
Interval description	Does not know the answers to test questions and situational tasks	Poorly knows the answers to test questions and situational tasks	Knows the answers to test questions and situational tasks well	Perfectly knows the answers to test questions and situational tasks

Conduct Policy: (lateness, absence, behavior in the auditorium, late submission of work).
- Punctuality and completion of tasks.
- Mandatory attendance of classes.
- Attending class in a clean medical uniform.
- Eliminating conversations on a cell phone in the classroom.
- Active participation in the learning process.
- Doing homework on time.
- Academic detention at the time specified by the teacher.
For violations of the Conduct Policy, the total points for discipline might be reduced to 1-10 points.

Academic Ethics Policy.
- Be tolerant, respect the opinions of others.
- Formulate objections in the correct form.
- Constructively support feedback in all classes.
- Plagiarism and other forms of dishonest work are unacceptable. Plagiarism includes the following: the absence of references when using printed and electronic materials, quotes, thoughts and works of other authors or students.
- Prompting and cheating during tests, exams, classes is unacceptable as well as passing an exam for another student, unauthorized copying of materials.

For violations of the Academic Ethics Policy, the total points for the discipline may be reduced to 1-10 points.

Guidelines for the lessons of the discipline
Content of Unit 1
Class 1
Key questions covered in Lecture №1: Outbreaks of the disease caused by the Nipah virus in the world, etiology. (2 hrs)
1. Outbreaks of Nipah virus disease in the world
2. Structure and life cycle of the Nipah virus.
Class 2
Key questions covered in Practice class №1: Outbreaks of the disease caused by the Nipah virus in the world, etiology (2 hrs)
1. Nipah virus disease situation in the world, in India.
2. The structure and life cycle of the Nipah virus
Recommended reading for the class:
    [1] 2–49 pp
    [2] 2–19 pp

Class 3
Key questions covered in Lecture №2: Epidemiology, prevention Nipah virus disease. (2 hrs)
    1. Epidemiology
    2. Prevention
Class 4
Key questions covered in Practice class №2: Epidemiology, prevention Nipah virus disease. (2 hrs)
1. Routes of transmission of Nipah virus disease, natural reservoirs.
2. Prevention methods for Nipah virus disease
Recommended reading for the class:
    [1] 2–49 pp
    [2] 2–19 pp

Class 5
Key questions covered in Lecture №3: Pathogenesis, clinical manifestations, complications of Nipah virus disease. (2 hrs)
1. Pathogenetic mechanisms
2. Clinical characteristics
3. Complications
Class 6
Key questions covered in Practice class №3: Pathogenesis, clinical manifestations, complications of Nipah virus disease. (4 hrs)
1. Case Study: Common Symptoms of Nipah Virus Disease
2. Case Study: Neurological Symptoms of Nipah Virus Disease
3. Differential diagnosis with encephalitis of another etiology
4. Complications
Recommended reading for the class:
    [1] 2–49 pp
    [2] 2–19 pp

Class 7
Key questions covered in Lecture №4: Laboratory diagnostic tests, treatment of Nipah virus disease. (2 hrs)
1. Laboratory diagnosis of Nipah virus disease
2. Principles of treatment of Nipah virus disease
Class 8
Key questions covered in Practice class №4: Laboratory diagnostic tests, treatment of Nipah virus disease. (2 hrs)
1. Non-specific and specific laboratory tests,
2. Treatment of Nipah virus disease
Recommended reading for the class:
    [1] 2–49 pp
    [2] 2–19 pp

Methodological instructions for the implementation of independent work on the discipline
For each topic, students, working independently, should be able:

- the signs and symptoms of Nipah virus disease;
- clinical and epidemiological indications for admitted to the hospital;
- basic laboratory tests used in the diagnosis of Nipah virus disease;
- complications and outcomes of Nipah virus disease;
- treatment and prevention of Nipah virus disease