

Odessa National Medical University
International faculty
Department of Infectious Diseases

«APPROVED»
Head of the department
Professor T.Y. Chaban
10.05.2021

Syllabus of
"Infectious diseases" course
specialty 222 «Medicine»

Volume	3,5 ECTS credits, 105 hours
Semester, year of study	IX, X semesters, 5th year of study
Days, time, place of study	according to the schedule of classes with a cyclic form of study
Contact phone	0965672822
Email	mariachubach@gmail.com
Workplace	Department of Infectious Diseases, classrooms
Consultations	On Thursday 14: 30-16: 00 On Saturday 09: 00-13: 00 Consultations and reworking of missed classes are held according to the schedule of consultations and reworking (the schedule is available at the following link: https://info.odmu.edu.ua/chair/infectious_diseases/)

COMMUNICATION

Practical classes are held in Teams or Zoom.

Calendar-thematic plans of practical classes and lectures are posted in the materials of the department in ONMedU library's blog at the link (https://info.odmu.edu.ua/chair/infectious_diseases/)

Written assignments should be sent to Viber (phone 0965672822).

Written works should be sent an e-mail to mariachubach@gmail.com

Face-to-face meetings during quarantine are not held.

Reworking of missed classes are held online in Skype.

Skype address: live: cid.43fe53efaed74d94

COURSE ANNOTATION

The subject of study of the discipline is Infectious diseases.

Prerequisites: to master the discipline requires knowledge, skills and abilities of such disciplines as medical and biological physics, microbiology, virology and immunology, physiology, pathophysiology, clinical pharmacology, internal medicine, surgery.

Postrequisites: knowledge, skills and abilities in the "infectious diseases" discipline are necessary for the study of internal medicine, surgery, neurology, dermatology, epidemiology, ophthalmology, otolaryngology, endocrinology, resuscitation.

The aim of the "Infectious Diseases" course is to develop skills to establish a preliminary diagnosis, make a plan of examination and treatment of infectious patients, diagnose emergencies and provide pre-hospital care, plan and implement preventive and quarantine measures for the most common and especially dangerous infectious diseases.

Tasks of discipline:

1. Formation of the ability to establish a preliminary clinical diagnosis of an infectious disease.
2. Formation of skills of gathering information about the patient.
3. Formation of the ability to evaluate the results of laboratory and instrumental research in infectious diseases.
4. Formation of the ability to determine the principles and nature of infectious diseases treatment.

Expected results.

- As a result of studying the discipline, applicants for higher education should be able to:
- to determine the main clinical symptoms that form the characteristic syndromes in the most common infectious diseases;
 - to establish a preliminary diagnosis of the most common infectious diseases;
 - draw up a plan of preventive and quarantine measures for the most common and especially dangerous infectious diseases;
 - to interpret the patterns and features of pathological and epidemiological processes in various infectious diseases;
 - to conduct clinical and laboratory differential diagnosis of various infectious diseases and to differentiate infectious diseases with non-infectious ones;
 - interpret the results of specific methods of examination in combined pathology;
 - to determine the management tactics of patients with infectious diseases;
 - to determine the tactics of hospitalization and isolation of infectious patients;
 - diagnose emergencies and provide care at the prehospital stage;
 - demonstrate awareness of infectious diseases as weapons of mass destruction;
 - to predict the consequences of infectious diseases for human health.

COURSE DESCRIPTION

Forms and methods of teaching.

The course will be presented in such forms: lectures (10 hours), practical classes (90 hours) and independent work of students (5 hours).

During the teaching of the discipline, interactive methods (presentations on recommended topics, photo-tasks) and distance forms of studying at the time of quarantine are used.

Consultations are held individually on certain days according to the approved schedule of consultations and reworking.

Course content:

1. Introduction to the course of infectology. The general characteristics of infectious diseases with fecal-oral mechanism of the transmission.

Topic 1. Introduction to the course of infectology. The general characteristics of infectious diseases with fecal-oral mechanism of the transmission. Typhoid fever. Paratyphoid fever A and B.

Topic 2. The syndrome of diarrhea in clinic of infectious diseases. Cholera.

Topic 3. Salmonellosis. Shigellosis. Amebiasis.

Topic 4. Intestinal yersiniosis, pseudotuberculosis.

Topic 5. Helminthiasis.

Topic 6. Botulism. Food-borne infection.

2. Infectious diseases with air-borne mechanism of transmission.

Topic 7. The general characteristics of infectious diseases with air-borne mechanism of transmission. Influenza. Other acute respiratory viral infections.

Topic 8. Coronaviral infection (SARS, MERS, COVID-19).

Topic 9. Meningeal syndrome in the clinics of the infectious diseases. Meningococcal infection.

Topic 10. Enteroviral diseases (diseases caused by Coxsackie viruses, ECHO and unclassified enteroviruses; polio)

Topic 11. Diphtheria.

Topic 12. Differential diagnosis of tonsillitis. Infectious mononucleosis.

Topic 13. "Children's" air-borne infections in adults (measles, rubella, chickenpox, mumps). Herpetic infections.

3. Viral hepatitis. HIV-infection.

Topic 14. The general characteristics of viral hepatitis. Viral hepatitis with fecal-oral mechanism of transmission.

Topic 15. Acute viral hepatitis with parenteral transmission.

Topic 16. HIV infection. AIDS-associated infections and invasions. Organization of palliative care in the context of HIV infection.

4. Infectious diseases with wound and multiply mechanism of the transmission

Topic 17. The general characteristics of zoonotic infections.

Topic 18. Infectious diseases with primary damage of kidney: leptospirosis, hemorrhagic fever with renal syndrome, hemorrhagic fever Congo-Crimea.

Topic 19. Rabies.

Topic 20. Tetanus. Erysipelas.

Topic 21. Brucellosis. Tularemia.

Topic 22. Anthrax.

Topic 23. Especially dangerous infections. Conception of biosafety.

Topic 24. Plague.

Topic 25. Yellow fever.

Topic 26. Sepsis.

5. Infectious diseases with transmissive mechanism of the transmission

Topic 27. The general characteristics of infectious diseases with transmissive mechanism of the transmission.

Topic 28. Malaria

Topic 29. Viral encephalitis.

Topic 30. Epidemic typhus and Brill disease.

Topic 31. Lyme disease and other borrelioses.

Topic 32. Syndrome of prolonged fever of unknown origin.

Topic 33. Defense of case history.

LITERATURE

Main literature

1. Infectious Diseases: textbook / O.A. Holubovska, M.A. Andreichyn, A.V. Shkurba et al.; edited by O.A. Holubovska. — Kyiv : AUS Medicine Publishing, 2018. — 664 p.

2. Pediatric Infectious Diseases : textbook / S.O. Kramarov, O.B. Nadraga, L.V. Pyra et al. ; edited by S.O. Kramarov, O.B. Nadraga. — 4th edition. — Kyiv: AUS Medicine Publishing, 2020. — 240 p.

president.gov.ua

3. General epidemiology: study guide (IV a. 1.) / N.O. Vynograd — 3rd edition, corrected K: ВСВ «Медицина», 2017. – 128 с.

4. Hagberg H., Wennerholm U.B., Savman K. // Current Opinion in Infection Disease». – 2015. - Vol. - № 3. - P. 301-306.

5. Harrison's Principles of internal medicine. 19th edition /edited by Anthony S. Fauci, Dennis L Kasper, Dan L. Longo [et all]. – New York. - 2017. – 2340 p.

Additional

1. Comprehensive Textbook of Infectious Disease: M. I. Sahadulla, S. A. Udman. – 2nd edition. Jaypee Brothers, Medical Publishers Pvt. Limited, 2019 – 835 p.

2. Атлас дитячих інфекційних хвороб. Червона Книга = Red Book® Atlas of Pediatric Infectious Diseases: пер. 3-го англ. вид. : двомов. вид. / Керол Дж. Бейкер ; наук. ред. пер. проф. С.О. Крамарьов ; пер. з англ. Л.В. Закордонець. — К. : ВСВ «Медицина», 2019. — 744 с.

Information resources

1. World Health Organization - <http://www.who.int>

2. Centers for diseases control and prevention - <http://www.cdc>

EVALUATION

EVALUATION FORMS OF CONTROL

The discipline is evaluated in accordance with the "Regulations on the organization of the educational process at Odessa National Medical University."

The grade for the discipline is determined on the basis of the sum of grades of current educational activity (arithmetic mean of current performance) and examination grade (traditional grade), which is set when assessing theoretical knowledge and practical skills according to the lists defined by the discipline program.

Thus, the shares of the results of the assessment of current educational activities and the final module control are 50 and 50%, respectively.

The current educational activities of students are controlled in practical classes in accordance with specific goals. The following means are used to determine the level of preparation of students: test control, solving situational problems, control of practical skills, in particular - the ability to properly supervise the patient, prescribe and interpret the results of laboratory and instrumental examinations.

Evaluation of current educational activities

Assessment of current educational activities is standardized. The current educational activity of the student is evaluated on a 4-point (traditional) scale.

According to the professional during practical classes most of the time (at least 60%) should be devoted to the main stage of the lesson: independent work of students under the guidance of a teacher with professionally oriented tasks (real objects of future professional activity - patients, laboratory results, radiographs or their models). The rest of the time - for analysis and joint discussion of the results of independent work of students with error correction.

Types of educational activities of the student, which are subject to evaluation in class, are determined by the department taking into account the specifics of the discipline and the objectives of the study of a particular topic and recorded in the minutes of the department before the school year.

Assessment of the educational activities of all students is not mandatory in every practical lesson. However, at least 50% of students must be interviewed.

At the end of the course, the current performance is calculated as the average score of all grades obtained by the student on a traditional scale, rounded to 2 (two) decimal places.

Assessment of individual student tasks

Grades for individual tasks are accrued to the student only in terms of their successful completion and defense. The grade is added to the current performance.

Assessment of students' independent work

Independent work of students, which is provided by the topic of the lesson along with the classroom work, is assessed during the current control of the topic in the relevant lesson. Assimilation of topics that are submitted only for independent work is checked during the exam. During the course, students fill out a VTS notebook (answer questions, solve situational tasks).

Students who have attended all the classes provided by the curriculum, have an average score of at least 3.00 for their current academic activities, have passed tests from the KPOK-2 database (more than 90%), have submitted medical history (during distance learning are used virtual patients) and SIW notebook are admitted to the exam.

The maximum current success rate is 5.0

The minimum number of points for admission to the exam is 3.0

Daily assessment of current educational activities consists of assessment of writing tests from the database of KPOK-2, patient examination protocols, theoretical protocols, oral answers to the interpretation of blood tests, CSF, solving clinical task.

Final control (EXAM)

The exam is carried out upon completion of the study of all topics of the section. Students who have attended all the classes provided by the curriculum in the discipline are admitted to the exam. A student who, for good reason, has missed classes, is adjusted to the individual curriculum and is allowed to work off academic debt until a certain date.

The exam is held on the day determined by the educational part. It is based on the results of an oral answer to a card, which has two theoretical questions and two situational tasks. The examiners are professors and associate professors of the department, according to the individual schedule.

The maximum score is 5.0. The exam is considered passed if the student received a score of at least 3.0

The whole base (theoretical questions, situational problems, tests for self-preparation) is provided to students from the first day of arrival at the department.

The assessment of the discipline consists of two components:

- 50% - current performance (arithmetic mean of all student grades);
- 50% grade on the exam.

Thus, the department puts two assessments in the statement:

- 1) the arithmetic mean of all current estimates (calculated as a number rounded to 2 (two) decimal places, for example, 4.76);
- 2) traditional grade for the exam.

Further calculations are made by the information and computer center of the university. The average score for the discipline (traditional grade) is calculated as the arithmetic mean of current performance and examination grade.

Evaluation criteria

The university uses various forms of control of classes in a particular discipline (oral, written, combined, testing, practical skills, etc.). The results of academic success of students are presented in the form of assessment on a national scale, 200-point and ECTS scale and have standardized generalized criteria for assessing knowledge:

national scale:

- the grade "excellent" is given to the student who systematically worked during a semester, showed during examination various and deep knowledge of a program material, is able to successfully carry out tasks which are provided by the program, has mastered the maintenance of the basic and additional literature, has understood interrelation of separate sections of discipline. importance for the future profession, showed creative abilities in understanding and using educational material, showed the ability to independently update and replenish knowledge; level of competence - high (creative);

- a grade of "good" is given to a student who has shown full knowledge of the curriculum, successfully completes the tasks provided by the program, mastered the basic literature recommended by the program, showed a sufficient level of knowledge in the discipline and is able to independently update and update during further study and professional activity; level of competence - sufficient (constructive-variable);

- the grade "satisfactory" is given to the student who has shown knowledge of the basic educational program material in the volume necessary for the further training and the subsequent work on a profession, copes with performance of the tasks provided by the program, has made separate mistakes in answers on examination and at performance of examination tasks, but has the necessary knowledge to overcome mistakes under the guidance of a researcher; level of competence - average (reproductive);

- the grade "unsatisfactory" is given to the student who did not show sufficient knowledge of the basic educational program material, made fundamental mistakes in performance of the tasks provided by the program, cannot use the knowledge at the further training without the help of the Teacher, failed to master skills of independent work; the level of competence is low (receptive-productive).

The final control in the form of tests is evaluated on a two-point scale:

- the grade "passed" is given to a student who has completed the curriculum of the discipline, has no academic debt; level of competence - high (creative);

- the grade "not credited" is given to a student who has not completed the curriculum of the discipline, has academic debt (average score below 3.0 and / or absences); the level of competence is low (receptive-productive).

The multi-point scale characterizes the actual success of each student in mastering the discipline. Conversion of the traditional grade from the discipline to 200-point is performed by the information and computer center of the university program "Contingent" by the formula:

$$\text{average grade point average (current / discipline) } \times 40$$

national score	score
«5»	185-200
«4»	151-184
«3»	151-184

The ECTS rating scale evaluates the achievements of students in the discipline who study in one course of one specialty, in accordance with the points obtained by them, by ranking, namely:

ECTS mark	Statistic index
“A”	Next 10% of students
“B”	Next 25% of students
“C”	Next 30% of students
“D”	Next 25% of students
“E”	Next 10% of students

The ECTS scale establishes the student's belonging to the group of the best or worst among the reference group of classmates (faculty, specialty), i.e. his rating. When converting from a multi-point scale, as a rule, the limits of grades "A", "B", "C", "D", "E" do not coincide with the limits of grades "5", "4", "3" on the traditional scale. A grade of "A" on the ECTS scale cannot be equal to a grade of "excellent", and a grade of "B" - a grade of "good" and so on. Students who receive grades "Fx" and "F" ("2") are not included in the list of ranked students. Such students automatically receive a score of "E" after re-assembly. The grade "Fx" is given to students who scored the minimum number of points for the current educational activity, but who did not pass the final 30 control. Grade "F" is given to students who have attended all classes in the discipline, but did not score an average score (3.00) for current academic activities and are not admitted to the final control. Criteria for assessing the current performance of students should be reflected by the departments in the work programs in the disciplines, indicating a clear structure of student receipt in the assessment class.

COURSE POLICY

Deadline and retake policy

A student who had been missed class has an ability to rework them within two weeks from the date of admission without the permission of the dean of the faculty, regardless of the reasons for admission. Failure by the student to submit to the dean's office documents confirming a valid reason for admission within three days after leaving for study is considered to be an omission of classes without valid reasons. A student who had been missed no more than two days - in the cycle system of study, is allowed to work at the department without the permission of the dean of the faculty. A student who has not eliminated missed classes within two weeks is not allowed to study and work at the department without the permission of the dean of the faculty.

A student who had been missed classes for a valid excuse, receives permission to practice classes on an individual schedule, on the basis of an application with a dean's visa and the availability of documents confirming a valid excuse. The practice of missed classes according to the individual schedule is carried out in full at a time specially determined by the head / head of the department by the teacher daily, but not more than one lesson per day at the department.

A student who has received permission, but has not completed the missed classes within the period specified by the dean, is not allowed to attend classes and applies to the dean's office for a new permission. The lesson is considered completed if the student received a positive grade.

Missed practical classes are completed by the student upon presentation of a student ticket to the next teacher according to the schedule of the department: during the semester - twice a week (on weekdays from 14.30 to 16.00 and Saturday - a day of practice and consultations from 9.00 to 13.00). During the semester no more than one lesson is worked on a working day, on Saturday - no more than three.

At the end of the semester, reworks at the departments are held daily. The student has an ability to rework no more than three classes a day. The term of liquidation of the current academic debt is not later than 2 days before the beginning of re-examination in accordance with the schedule of re-approvals approved by the rector. A student who has completely eliminated the current academic debt within the specified period is admitted to the examination session and / or retaking of exams.

Academic Integrity Policy

Adherence to academic integrity by students requires:

- independent performance of educational tasks and current and final control's tasks;
- links to sources of information in case of using ideas, developments, statements or information.

Using of prohibited materials or technical means (cheat sheets, notes, headphones, phones, smartphones etc.) during control activities is unacceptable in educational activities for the educational process participants.

Attendance and lateness policy

Attendance of classroom classes is required. If the student is late for class, he/she may be present at the class but with a mark of his/her absence.

Mobile devices

Using of mobile devices is prohibited during the classroom lessons.

Behavior in the audience

During the classroom lessons t students must behave in accordance with the rules of ethics, the Regulations of the educational process organization for applicants of higher education at Odessa National Medical University and the Regulations of humanitarian education organization and educational work at Odessa National Medical University.