



Infectious Diseases

1. IMPRINT	
Academic Year	2023/2024
Department	Faculty of Dental Medicine
Field of study	English Dentistry Division
Main scientific discipline	Medical sciences
Study Profile	General academic
Level of studies	Uniform MSc
Form of studies	Full-time program
Type of module / course	Obligatory
Form of verification of learning outcomes	Completion
Educational Unit / Educational Units	Department of Infectious and Tropical Diseases and Hepatology (1M22) ul. Wolska 37, 01-201. Tel. (22) 33 55 222 Department of Infectious Diseases in Children (2M5) ul. Wolska 37, 01-201. Tel. (22) 33 55 292

Head of Educational Unit / Heads of Educational Units	1M22 – Prof. Alicja Wiercińska-Drapała, MD, PhD 2M5 – Prof. Magdalena Marczyńska, MD, PhD
Course coordinator	Prof. Alicja Wiercińska-Drapała, MD, PhD; alicja.wiercinska-drapalo@wum.edu.pl
Person responsible for syllabus	Dagny Krankowska, MD tel. (22) 33 55 294; dagny.krankowska@wum.edu.pl
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2. BASIC INFORMATION

Year and semester of studies	III year, V semester	Number of ECTS credits	2
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)			
Seminar (S)	10	0,3	
Discussions (D)			
e-learning (e-L)			
Practical classes (PC)	20	0,7	
Work placement (WP)			
Unassisted student's work			
Preparation for classes and completions	30	1	

3. COURSE OBJECTIVES

01	To provide knowledge about diagnosing and treating the most prevalent infectious disease and ways to prevent them both in children and adults.
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O2	To provide knowledge about the mechanisms leading to infectious diseases.
O3	To provide knowledge about immunological phenomena in course of infectious and parasitic diseases which facilitate proper treatment.

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING

Code and number of effect of learning in accordance with standards of learning	Effects in time
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Knowledge – Graduate* knows and understands:

C.W4.	species of bacteria, viruses and fungi which are the most common etiological factors of infections, infections and infections
E.W3.	etiopathogenesis and symptomatology of respiratory, circulatory, hematopoietic, urogenital, immune, digestive, locomotor and endocrine diseases, with particular emphasis on diseases manifesting in the oral cavity
E.W8.	symptoms of viral hepatitis, HIV infection and acquired immune deficiency syndrome (AIDS) in infectious and parasitic diseases
E.W9.	principles of immunization against infectious diseases in children and adults

Skills– Graduate* is able to:

E.U7.	qualify the patient for vaccination
E.U12.	recognize diseases of the nasopharynx, their etiology and pathomechanism
E.U18.	diagnose diseases with enlargement of the lymph nodes in the neck and submandibular area as well as infectious diseases, with particular emphasis on changes in the oral cavity

5. ADDITIONAL EFFECTS OF LEARNING

Number of effect of learning	Effects of learning in time
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Knowledge – Graduate knows and understands:

K1	-
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Skills– Graduate is able to:

S1	-
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Social Competencies – Graduate is ready for:

SC1	-
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6. CLASSES		
Form of class	Class contents	Effects of Learning
Seminar	<p>S1 – Seminar 1 - Sepsis – Epidemiological, diagnostic and treatment of sepsis.</p> <p>The seminar will cover basic sepsis-related concepts, including but not limited to the definition of sepsis, diagnosis, most common causes and methods of treatment. The issue of tooth-related foci will be addressed. Discussed will be the scales used in the diagnosis of sepsis with special emphasis on the qSOFA scale (quick SOFA) for sepsis which identifies patients with high risk of in-hospital mortality in patients suspected of having infection outside of the intensive care unit.</p>	C.W4., E.W3., E.W8., E.W9., E.U7., E.U12., E.U18.
Seminar 2	<p>S2 – Seminar 2 - Changes in the mouth in infectious diseases – Oral manifestations of infectious diseases: diagnostic aspects and treatment options.</p> <p>The oral cavity is especially likely to manifest lesions in the course of viral diseases. Viral infections frequently have a subclinical course, and the clinical manifestations in the oral cavity are caused by the destruction of cells of the host or the response of the immune system against viral proteins. Oral lesions are seen in the day-to-day clinical practice of dentists. Such lesions may prove to be a diagnostic challenge, as the clinical picture and possible causative microorganisms are many. Discussed will be various members of viral families causing oral lesions, i.a. DNA viruses, including, members of Herpesviridae, Papillomaviridae, and Poxviridae, as well as RNA viruses, including enteroviruses and paramyxoviruses. The most frequent fungal infections, such as oral candidiasis, will be discussed as well.</p>	C.W4., E.W3., E.W8., E.W9., E.U7., E.U12., E.U18.
Seminar 3	<p>S3 – Seminar 3 – Acquired Immunodeficiency Syndrome (AIDS) – Clinical and societal problems related to HIV/AIDS</p> <p>Oral lesions are the some of the earliest clinical signs of human immunodeficiency virus (HIV) infection and are important in the early diagnosis and monitoring for the progression to the acquired immune deficiency syndrome (AIDS). The diagnosis of HIV infection, entry-level pathogenesis and treatment will be discussed.</p>	C.W4., E.W3., E.W8., E.W9., E.U7., E.U12., E.U18.
Seminar 4	<p>S4 - Seminar 4 - Prevention of infectious diseases – Vaccinations and other forms of prophylaxis of infectious diseases</p> <p>Current infectious disease prevention methods will be discussed, including active-passive immunoprophylaxis and its usage, non-specific methods of prevention such us personal protective equipment, as well as hygenic measures used in stopping the spead of pathogenigc microorganisms.</p>	C.W4., E.W3., E.W8., E.W9., E.U7., E.U12., E.U18.
Seminar 5	<p>S5 - Seminar 5 - HIV and viral hepatitis prophylaxis Specific and non-specific post- and pre- exposure prophylaxis in occupational and non-occupational exposures.</p> <p>Discussed will be the protocol for occupational post-exposure prophylaxis, vaccination against HBV, procedures after HCV exposure, obligations of the employer and the employee, as well as measures to decrease the risk of HIV, HBV, and HCV transmission during working with patients.</p>	C.W4., E.W3., E.W8., E.W9., E.U7., E.U12., E.U18.

Seminar 6	<p>S6 - Seminar 6 - Infectious diseases with rashes – A review of infectious diseases with dermatological manifestations: diagnostic and therapeutic aspects</p> <p>Skin rashes caused by infectious diseases will be discussed, which can precede or follow fever and other systemic symptoms and signs. This will include lesions caused by Herpes viruses, including herpetic gingivostomatitis, which is the most frequent acute clinical manifestation of primary HSV infection, usually caused by HSV-1. Other topics include: VZV, CMV, EBV, HHV-6 and –7, measles virus, parvovirus B19, enteroviruses, echoviruses, and adenoviruses.</p>	C.W4., E.W3., E.W8., E.W9., E.U7., E.U12., E.U18.
Seminar 7	<p>S7 – Seminar 7 - Infectious diseases of the gastrointestinal tract – A review of infectious diseases located in the gastrointestinal tract</p> <p>Gastrointestinal infections are viral, bacterial and parasitic infections, which cause gastroenterocolitis. Symptoms include diarrhoea, vomiting, and abdominal pain. Acute bacterial and viral infections usually have an abrupt onset and are accompanied by fever. Discussed will be diarrhoeal diseases that are most frequent in Poland, as well as prevention and treatment methods.</p>	C.W4., E.W3., E.W8., E.W9., E.U7., E.U12., E.U18.
Seminar 8	<p>S8 - Seminar 8 - Viral hepatitis – HAV, HBV, HCV, HDV, HEV infections: diagnostic and therapeutic aspects</p> <p>Etiology of viral hepatitis, epidemiology, clinical picture and management of acute and chronic phases will be covered. Complications of chronic hepatitis, such as liver cirrhosis and hepatocellular carcinoma will be discussed.</p>	C.W4., E.W3., E.W8., E.W9., E.U7., E.U12., E.U18.
Seminar 9	<p>S9 - Seminar 9 - Lymphadenopathies . Actinomycosis. – Differential diagnosis, epidemiology and treatment.</p> <p>There will be a discussion of the most common causes of lymphadenopathy of the cervicofacial region, including a detailed examination of actinomycosis, which is a subacute, sometimes chronic infection cause by anaerobic bacteria – Actinomyces spp. These bacteria are present in large numbers in the physiological flora of the oral cavity. In some cases of disruption of mucosal surfaces or presence of necrotic oral lesions these bacteria can gain invasive features and spread into deeper tissues, causing inflammation with the development of numerous abscesses and fistulas.</p>	C.W4., E.W3., E.W8., E.W9., E.U7., E.U12., E.U18.
Seminar 10	<p>S10 - Seminar 10 - Herpes virus infections – Epidemiology, diagnosis and treatment of herpes virus infections</p> <p>Symptoms and signs of infections with the Herpes viruses in the oral cavity will be discussed. Featured will be the most common infections, i.a. primary HSV infection of the oral cavity, which usually has the most severe clinical course with flu-like symptoms, lymphadenopathy, and headache. Recurrent infections are usually much milder, and typical lesions appear on the lip borders. Included will be a discussion on HHV-8 in the oral cavity and its sequelae in the form of Kaposi's sarcoma.</p>	C.W4., E.W3., E.W8., E.W9., E.U7., E.U12., E.U18.
Practical Classes 1-20	PC 1 – PC 5 - Infectious Diseases in dentistry – Physical examination and medical interview of patients presenting various symptoms with various clinical diagnoses – part I.	C.W4., E.W3., E.W8., E.W9
	PC 6 – PC 10 - Infectious Diseases in dentistry – Physical examination and medical interview of patients presenting various symptoms with various clinical diagnoses – part II.	E.U7.

	PC 11 – PC 15 - Infectious Diseases in dentistry – Physical examination and medical interview of patients presenting various symptoms with various clinical diagnoses – part III.	E.U12.
	PC 16 – PC 20 - Infectious Diseases in dentistry – Physical examination and medical interview of patients presenting various symptoms with various clinical diagnoses – part IV.	E.U18.

7. LITERATURE

Obligatory

1. Harrison's Principles of Internal Medicine, Longo, Fauci et al. – Infectious Diseases Section
2. Infectious Diseases, Mandel, Benett, Dolin.

Supplementary

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8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
C.W4., E.W3., E.W8., E.W9., E.U7., E.U12., E.U18.	Attendance and multiple choice questions test or oral test. Credit with a grade.	The student presents knowledge and abilities sufficient to properly diagnose and suggest further procedures in infectious diseases.

9. ADDITIONAL INFORMATION

Department of Infectious and Tropical Diseases and Hepatology, ul. Wolska 37, 01-201, building 2, second floor, tel. 22 33 55 222
Department of Infectious Diseases in Children, ul. Wolska 37, 01-201, building 2, third floor, tel. 22 33 55 292.

For those who did not pass the test, a retake will be possible.

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ATTENTION

The final 10 minutes of the last class in the block/semester/year should be allocated to students' Survey of Evaluation of Classes and Academic Teachers