



Uniwersytet Medyczny we Wrocławiu  
KATEDRA I ZAKŁAD HIGIENY  
ul. Mikulicza-Radeckiego 7  
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Syllabus for academic year: 2021/2022  
Training cycle: 2020/2021-2024/2025

Description of the course													
Course	SOCIAL DENTISTRY										Group of detailed education results		
											Group code	Group name	
											G	Law – and organization – related aspects of medicine	
Faculty	Dentistry												
Major	dentistry												
Level of studies	X uniform magister studies												
Form of studies	X full-time <input type="checkbox"/> part-time												
Year of studies	II					Semester:		X winter					
Type of course	X obligatory												
Language of study	X English												
Number of hours													
Form of education													
	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Foreign language Course (FLC)	Physical Education (PE)	Vocational Practice (VP)	Directed Self-Study (DSS)	E-learning (EL)
Winter semester:													
Chair and Department of Hygiene													
Direct (contact) education		35											
Distance learning													
Educational objectives													
<p>C1. Familiarity with basics of hygienic way of life, studying and work, hand hygiene.</p> <p>C2. Familiarity with basics of epidemiology, population health status indicators, kinds of epidemiological studies, deriving conclusions from epidemiological observations.</p> <p>C3. Familiarity with importance of health promotions and illness prophylaxis in public health, importance of vaccination. Familiarity and understanding phenomena belonging to environmental health and environmental epidemiology (dose-effect, dose-response relationship; risk assessment).</p> <p>C4. Familiarity with infectious and civilization-related diseases (including caries, circulatory system diseases, cancer) – in the whole world and in Poland.</p> <p>C5. Familiarity with demographic indicators, their connection to health phenomena in populations and enforcing prophylactic measures.</p>													



C6. Familiarity with health-driven diet and importance of diet in diseases prophylaxis and development (especially oral diseases).			
Education result for course in relation to verification methods of the intended education result and the type of class:			
Number of detailed education result	Student who completes the course knows/is able to	Methods of verification of intended education results	Form of didactic class <i>*enter the abbreviation</i>
G.W3.	Defines the objectives of primary and secondary prevention, knows how to construct simple programs and recommendations for health promotion and selected specifically to the needs of epidemiological problems diagnosed.	Dural the oral answers, presentations, written tests and exams student can explain indicated issues e.g. discusses and/or recognizes examples of primary and secondary prevention; explains the importance of nutrition and lifestyle in the prevention and development of diseases.	SE
G.W6.	Knows the health situation in the Republic of Poland and worldwide.	During the oral answers, presentations, written tests and exam is able to describe the health situation and epidemiology of infectious and non-infectious diseases in Poland and worldwide.	SE
G.W13.	Knows the etiology of occupational diseases, including those related to the profession of dentist.	Dural the oral answers, presentations, written tests and exams student can explain indicated issues e.g. health threats related to the performance of specific professions.	SE
G.W14.	Knows the population health status indicators and the principles of their assessment.	During the oral answers, presentations, written tests and exam student can explain indicated issues e. g. determine the rules of the status of population health and calculate metrics e. g. the incidence of disease, mortality rates, prevalence of diseases and disability/ for given data/.	SE
G.W15.	Knows disease prevention and health improvement principles.	Dural the oral answers, presentations, written tests and exams student can explain indicated issues e.g. principles of	SE



		preventive treatment – appropriate diet and physical activity.	
G.W16.	Knows the principles of infectious disease outbreak investigation.	Dural the oral answers, presentations, written tests and exams student defines principals of emergency procedure in case of the epidemic outbreak.	SE
G.W17.	Knows the prevention activity planning and assessment principles.	Dural the oral answers, presentations, written tests and exams student discuss different methods of prevention and ways of its estimation.	SE
G.W19.	Knows the rules of health and safety in dentistry.	Dural the oral answers, presentations, written tests and exams student can explain indicated issues e.g defines causes and effects of the hospital infections, knows principals and stages of hygienic washing and disinfecting hands and the most frequent mistakes, principles of waste utilization; specify principles of prevention at the dentist profession.	SE
G.W20.	Knows the rules of dealing with an epidemiological emergency, can interpret the data, provide conclusions and define the objectives of surveillance and epidemiological control.	Dural the oral answers, presentations, written tests and exams student can explain indicated issues e.g. interpret the given data, provide conclusions and define the objectives of surveillance and epidemiological control.	SE
G.W21.	Knows the sources of stress and options for eliminating them.	Dural the oral answers, written tests and exams student can explain indicated issues e. g. sources of stress related to the dentistry profession, knows the dental consequences of long-lasting stress and is able to indicate the possibilities of medical treatment.	SE
G.U12.	Is able to recognize harmful and arduous factors in the workplace, residence of study.	Dural the oral answers, cards and written tests and during the exam student describes lists	SE



		harmful and arduous factors in the human environment.	
G.U13.	Knows the assess the level of the health risk posed by air, water, soil and food quality.	Dural the oral answers, presentations, written tests and exams student can explain indicated issues e.g. on the basis of water/ air/ soil cleanliness standards is able to define the degree of environmental pollution exposure.	SE
G.U14.	Is able to confirm and exclude the relationship of environmental risk factors with the etiology of the disease, including occupational diseases.	During written tests and exam and during classes, student is able to indicate the risk factors for diseases and estimates the risk.	SE
G.U15.	Knows the principles of oral health prevention and promotion, knows how to provide the patient with the necessary information in the field of oral health prophylaxis.	Dural the oral answers, presentations, written tests and exams gives the principles of prophylaxis and health promotion in the oral cavity.	SE
G.U16.	Is able to provide the patient with the necessary	Dural the oral answers, presentations, written tests and exams student can explain indicated issues e.g. indicates risk factors and principles of the most frequent cavity diseases in the Republic of Poland.	SE
G.U17.	Can interpret basic epidemiological indicators, define and evaluate the reliability and accuracy of tests used in screening.	Dural the oral answers, presentations, written tests and exams student can explain indicated issues e.g. estimates scrupulousness and accuracy of epidemiological testes and then interpret screening test results.	SE
G.U18.	Is able to design epidemiological study, its aims, collect information on the risk factors for infectious and chronic diseases. Plans preventive activities at different levels of prevention.	Dural the oral answers, presentations, written tests and exams student can explain indicated issues e.g. on the basis of the given data and the indicated research purpose, it is able to plan an appropriate epidemiological study.	SE
G.U19.	Can design an epidemiological investigation.	Dural the oral answers, presentations, written tests and exams student can explain	SE

		indicated issues e.g. is able to define sources, causes, mechanism and spreading ways of diseases.	
G.U20.	Is able to work in line with the ergonomic work organization principles.	During classes student show ability of working in line with ergonomic work organization principles.	SE
G.U21.	Knows the principles of work with biological and infectious material, knows hospital hygiene and management of medical waste.	During the oral answers, presentations, written tests and exams student can explain indicated issues e.g. identifies the causes and effects of nosocomial infectious, discusses the rules and stages of hygienic and surgical hand washing as well as the most common mistakes made, discusses the rules for the utilization of hospital waste. On practical exercises is able to perform the correct procedure for washing/disinfect hands.	SE

\* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC- classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning

**Student's amount of work (balance of ECTS points):**

Student's workload (class participation, activity, preparation, etc.)	Student Workload
1. Number of hours of direct contact:	35
2. Number of hours of distance learning:	0
3. Number of hours of student's own work:	65
4. Number of hours of directed self-study	0
Total student's workload	100
ECTS points for course	4,0

**Content of classes:**

**Seminars**

1. Hygiene and health promotion, aims and tasks of epidemiology. Epidemiological sciences. Population health indicators. Demographic phenomena.
2. Types of epidemiological studies (descriptive, analytical, ecological, clinic-control, cohort, case studies).
3. Epidemiology and prophylaxis of caries and other oral diseases.
4. Epidemiology of selected non-infectious diseases (cancers, circulatory system diseases - caries and periodontal disease as a risk factors).
5. Basic rules of food hygiene and diet. Calculating of energetic demand. Basic metabolism, activity-related metabolism. Nutrients' role. Diet as prevention and development factor of oral diseases.

6. Mental hygiene, its sources and ways of elimination; sleep hygiene; addictions. Social diseases: nicotine addiction, alcoholism, drug addiction (recognition, health effects, treatment and prevention).
7. Water pollution - pathogen. Biological significance of water. The shortage of water in the world - statistics. The harmfulness of biological and chemical factors in the wastewater. Water treatment, water quality status indicators - interpretation of study results.
8. Environmental epidemiology. Environment and health. Exposure and dose. Dose-effect and dose-response relationship, risk assessment. Specific factors in environmental epidemiology and occupational medicine.
9. Exercises in using medical literature. Lifestyle and diet. Independent acquiring and presentation of knowledge concerning diet, hygiene and prophylaxis.
10. Epidemiology of infectious diseases.
11. Colloquium.
12. Indoor air pollutions. Housing-environment. Environmental health hazards at home and work. Sick Building Syndrome and Building Related Illness.
13. Occupational diseases, including those related to the profession of dentist
14. Workplace hygiene guidelines for medical occupations - especially in the dental office. Hands hygiene. Washing and disinfection of hands. "Dirty hands diseases
15. Making up failed colloquia and missing classes.

#### Basic literature

1. Bonita R, Beaglehole R, Kjellström T. Basic Epidemiology. 2 ed. Geneva: World Health Organization; 2006 [Available from: [http://whqlibdoc.who.int/publications/2006/9241547073\\_eng.pdf](http://whqlibdoc.who.int/publications/2006/9241547073_eng.pdf)]
2. Dietz E, Badavinac R. *Safety Standards and Infection Control for Dental Hygienist* Albany, NY: Delmar; 2002
3. Chattopadhyay A. *Oral Health Epidemiology. Principles and Practice*. Sudbury, MA: Jones & Bartlett Publishers; 2011

#### Additional literature and other materials

1. *Atlas of Health in Europe*. 2 nd ed. Copenhagen: WHO Regional Office for Europe; 2008
2. Hill MK. *Understanding Environmental Pollution*. 3rd ed. Cambridge: Cambridge University Press; 2010
- CM Marya. *A Textbook of Public Health Dentistry First Edition*: Jaypee Brothers Medical Publishers (P) Ltd, New Delhi, India, 2011

#### Preliminary conditions:

Basic knowledge in the fields: Human, Ergonomics.

#### Conditions to receive credit for the course:

1. Active participation in seminars and group-work.
2. Positively passing all unannounced short tests during seminars.
3. Positively passing written colloquia - open questions; open answers questions demanding: naming, defining, explaining, filling in; problem tasks; calculation tasks; interpreting calculation results and external data.
4. Preparing and presenting at least 1 presentation concerning assigned topic.
5. Exam: written form - test.

Grade:	Criteria for exam <sup>3</sup>
Very Good (5.0)	At least 90% correct test questions answers.

	Very good mastering of topics covered in seminars and by basic and additional sources. Unrestrained covering problems of social dentistry, hygiene and epidemiology. Good understanding and diligent explaining of interactions and connections between determined (risk) factors and health phenomena.
Good Above (4.5)	<b>At least 85% correct test questions answers.</b> Very good mastering of topics covered in seminars and by basic and additional sources. Good understanding problems of social dentistry, hygiene and epidemiology. Proper interpretation of external data and fluent solving problems and fulfilling tasks.
Good (4.0)	<b>At least 75% correct test questions answers.</b> Good mastering of topics covered in seminars and by basic and additional sources. Proper interpretation of external data and solving of most problems and fulfilling most tasks.
Satisfactory Plus (3.5)	<b>At least 70% correct test questions answers.</b> Good mastering of topics covered in seminars and by basic sources. Interpretation of external data and solving basic, simple problems and fulfilling basic, simple tasks.
Satisfactory (3.0)	<b>At least 60% correct test questions answers.</b> Sufficient mastering of topics covered in seminars and by basic sources. Solving basic, simple problems and fulfilling basic, simple tasks.

Unit realizing the course:	Chair and Department of Hygiene, Faculty of Medicine, Wrocław Medical University
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E-Mail:	wl-10@umw.wroc.pl

Person responsible for the course:	dr hab. Paweł Gać, prof. UMW
Telephone:	71 784 15 01
E-Mail:	pawel.gac@umed.wroc.pl

List of persons conducting specific classes:				
Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Martyna Hajac	doctor	Medical Sciences	academic teacher	seminars
Marek Tradecki	doctor	Medical Sciences	academic teacher	seminars
Adrian Martuszewski	physician	Medical Sciences	PhD student	seminars

Uniwersytet Medyczny we Wrocławiu  
Date of Syllabus development  
LEKARSKO-STOMATOLOGICZNY  
DZIAŁKAN

30.06.2021 dr hab. Marcin Mikulewicz

Syllabus developed by

dr hab. Paweł Gać, prof. UMW



Signature of Head(s) of teaching unit(s)

Dean's signature

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KATEDRA I ZAKŁAD HIGIENY

kierownik

dr hab. n. med. Paweł Gać, prof. uczelni