



Social Dentistry

1. IMPRINT

Academic Year	2023/2024
Department	Faculty of Medicine and Dentistry
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	Exam
Educational Unit / Educational Units	Department of Social Medicine and Public Health Medical University of Warsaw Oczki 3, 02-007 Warszawa Phone: 22-621-52-56, 22-621-51-97 E-mail: msizp@wum.edu.pl
Head of Educational Unit / Heads of Educational Units	Professor Aneta Nitsch-Osuch, MD, PhD
Course coordinator	Professor Aneta Nitsch-Osuch, MD, PhD msizp@wum.edu.pl anna.jagielska@wum.edu.pl
Person responsible for syllabus	Anna Jagielska, MD, PhD – anna.jagielska@wum.edu.pl
Teachers	Prof. dr hab. n. med. Aneta Nitsch-Osuch, Md, PhD – msizp@wum.edu.pl Irena Kosińska, MSc, PhD – irena.kosinska@wum.edu.pl Anna Jagielska, MD, PhD – anna.jagielska@wum.edu.pl Katarzyna Lewtak, DMD, PhD – katarzyna.lewtak@wum.edu.pl Aleksandra Kozłowska, MD, PhD – aleksandra.kozlowska@wum.edu.pl

2. BASIC INFORMATION			
Year and semester of studies	I year, I semester	Number of ECTS credits	4.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		8 (in e-learning platform)	0,4
Seminar (S)		16	0,8
Discussions (D)		15	0,8
e-learning (e-L)			
Practical classes (PC)			
Work placement (WP)			
Unassisted student's work			
Preparation for classes and completions		40	2,0

3. COURSE OBJECTIVES	
O1	Acquire knowledge of current problems of social dentistry as an element of social medicine, with particular attention to aspects related to epidemiology of infectious and non-communicable diseases, hygiene in the dental office, lifestyle medicine (nutrition, physical activity, stimulants), current environmental hazards.
O2	Preparation for the ability to conduct activities in the field of health promotion.
O3	Acquire counselling skills in the prevention of chronic non-communicable diseases and communicable disease prevention and reporting, study planning, interpretation of results and use of statistical methods.

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING	
Code and number of the effect of learning in accordance with standards of learning	Effects in time
Knowledge – Graduate* knows and understands:	

B.W22.	principles of metabolism and nutrition
E.W11.	principles of dental care for pregnant women
G.W2.	health awareness concepts and models
G.W3.	basic concepts of prevention, health awareness and environmental hygiene
G.W4.	basic concepts related to health, lifestyle and health status of the population
G.W6.	health situation in the Republic of Poland and in the world
G.W13.	etiology of occupational diseases as defined by law, including those related to the practice of the profession of a dentist
G.W14.	indicators of population health status and principles for their evaluation
G.W15.	principles of disease prevention and health improvement
G.W16.	principles of epidemiological determination of an outbreak of an infectious disease
G.W17.	principles of planning and evaluation of preventive actions
G.W20.	procedure for an epidemiological risk

Skills– Graduate* is able to:

D.U2.	recognise and respond to signs of unhealthy and self-destructive behaviour
G.U1.	analyse data on the health status of the population, epidemiological data and use it to determine the health status of the population
G.U4.	analyse the conditions of the epidemiological risk in terms of social and demographic processes
G.U7.	plan prevention and health awareness activities and implement activities promoting population health
G.U12.	identify harmful and disruptive factors in the place of work, residence or study
G.U13.	assess the level of health risks arising from the quality of air, water, soil and food
G.U14.	confirm or rule out the link between environmental factors and the aetiology of the disease, including occupational disease
G.U15.	provide the patient with the necessary information on oral health awareness
G.U16.	provide the patient with information on risk factors and methods to prevent the most common social diseases in the Republic of Poland
G.U17.	interpret basic epidemiological indicators, define and evaluate the reliability and relevance of the tests used in screening
G.U18.	design epidemiological studies
G.U19.	conduct an epidemiological investigation

5. ADDITIONAL EFFECTS OF LEARNING	
Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
W1	the importance of health education for the health of the population and the individual
Skills– Graduate is able to:	
U1	educate patients about healthy lifestyle principles
U2	educate patients about the impact of the environment on health
Social Competencies – Graduate is ready for:	
K1	take responsibility for the health of populations and individuals

6. CLASSES		
Form of class	Class contents	Effects of Learning
Lectures	L1. Social Dentistry as a part of Social Medicine. <i>The aim of the lecture is to present the importance and tasks of Social Medicine and Social Dentistry for the health of the population and to introduce the topics of the taught subject.</i>	G.W3., W1
	L2. Health promotion theory. <i>The aim of the lecture is to present the history and current situation of health promotion in the world and in Poland.</i>	G.W2.
	L3. Basics of environmental hygiene: water, soil, air - current threats, with particular emphasis on aspects important to the dentist. <i>The purpose of this lecture is to present the importance of the habitat for population health and oral health.</i>	G.W3.,
	L4. Oral health and general health. <i>The purpose of this lecture is to present the impact of oral diseases on human health, including the risk of non-communicable diseases.</i>	G.W6., G.W14.,
	L5. Epidemiology of non-communicable diseases (Poland, Europe, world) <i>The aim of the lecture is to present the current epidemiological situation of non-communicable diseases.</i>	G.W6., G.W14.,
	L6. Basics of sanitary-epidemiological supervision in Poland - in the aspect of dentist's work. <i>The aim of the lecture is to present the principles of surveillance of infectious diseases taking into account the specificity of the dentist's out-patient clinics.</i>	G.W6., G.W16., G.W20.,
	L7. Basic epidemiological concepts and definitions (epidemic, endemic, pandemic, outbreak, incidence, mortality, prevalence, mortality). The purpose of this lecture is to explain epidemiological terms.	G.W6., G.W14., G.W16., G.W17., G.W20.,
	L8. Current demographic and epidemiological situation of Poland as a determinant of health needs of the society. The aim of the lecture is to present current data on the Polish population and the demand for	G.W6., G.W14., K1

	particular specialist services.	
Seminars	S1 Health consequences of addictions (cigarettes, alcohol), use of stimulants in the practice of dentists <i>The aim of the seminar is to discuss the effects of stimulants on human health and the risk of addiction in the aspect of work.</i>	D.U2., G.W3., G.W15., U1
	S2 Current situation of infectious diseases in Poland and in the world. <i>The aim of the seminar is to discuss the prevalence of infectious diseases that pose a major threat to the health and life of the population, including patients.</i>	G.W14., G.W15., G.W16.
	S3 Oral health on the basis of epidemiological studies in Poland. <i>The aim of the seminar is to present current data on the prevalence of oral diseases in the Polish population by age and/or gender.</i>	G.W6., G.U4., G.U15., U1
	S4 Water quality and health; water in dental practice - hygienic and epidemiological aspects; fluoride - Facts and Myths. <i>The aim of this seminar is to discuss the importance of water quality and fluoride for human health.</i>	G.W3., D.U2., G.U13., U2
	S5 Nutrition and oral health. The role of nutrition in the prevention of dental and periodontal disease. Diet and development of oral cavity. <i>The aim of the seminar is to present the influence of nutrition on the condition of human oral cavity.</i>	B.W22., E.W11., G.W3., G.W4., G.W13., D.U2, U1, K1
	S6 The role of nutrition during pregnancy. Lifestyle medicine in the prevention of noncommunicable diseases. The role of proper nutrition and physical activity. <i>The aim of the seminar is to present the influence of nutrition on human health.</i>	B.W22., E.W11., G.W3., G.W4., G.W13., G.U4., D.U2, U1, K1
	S7 Effects of environmental factors on human and population health. <i>The aim of the seminar is to present the impact of the environment, including pollution, on human health and the risk of chronic diseases.</i>	G.W3., G.W13., D.U2., G.U17.-19.
	S8 Environment and oral health: metals and other xenobiotics, amalgams - safety and risks. <i>The purpose of this seminar is to discuss the dangers of metals and other substances found in the patient's environment.</i>	G.W3., G.W13., G.U12.
	S9 Health Promotion in practice. <i>The aim of the seminar is to present practical aspects of Health Promotion.</i>	G.W3., G.W15., G.U7., G.U15.-17.
	S10 Oral health promotion - Health programs, health policy programs. <i>The purpose of this seminar is to discuss existing health promotion programs with special emphasis on the role of dentists.</i>	G.W3., G.W15., G.U7., G.U15.-17.
	S11 The dental out-patient clinic as a link in the epidemiological chain. <i>The purpose of this seminar is to discuss the risks associated with the emergence of infectious disease cases in a specialty practice setting.</i>	G.W16., G.W20., G.U17.-19.
	S12 Aseptics and antiseptics in the dental office. Causes of infections in dental practices and infection prevention. <i>The aim of the seminar is to present the principles of prevention of infectious diseases in the aspect of work of a dentist.</i>	G.W13., G.U17.
	S13 New and re-emerging infectious diseases. <i>The purpose of this seminar is to discuss current infectious disease threats worldwide.</i>	G.W6., G.W15.-16.,
	S14 Vaccination as the primary form of prevention of infectious diseases. Anti-vaccine movements as a potential health threat to individual patients and populations. <i>The purpose of this seminar is to present the benefits of vaccination to the health of the individual and</i>	G.W14., G.W15., D.U2., G.U1.

	<i>the patient at large, with a particular focus on the occupational exposure of dentists.</i>	
	S15-16 Introduction to epidemiology. Types of epidemiological studies. Types of epidemiological phenomena and methods of their study. <i>The aim of the seminar is to discuss the use of epidemiological research in medical science.</i>	G.W16., G.W20., G.U17.-19.
Classes	C1 Healthy lifestyle in everyday practice of a dentist. Critical reading of the literature. <i>The aim of the classes is to consolidate the knowledge acquired in lectures and seminars on healthy lifestyle while developing recommendations for selected patient cases</i>	D.U2., G.U1.
	C2 Methods of assessing nutritional status in practice as a means of monitoring health status. Evaluation of body composition with the use of the Tanita apparatus <i>The aim of the classes is to consolidate the knowledge acquired during lectures and seminars on nutrition while performing anthropometric examinations, with particular emphasis on the influence of abnormal nutritional state on the prognosis of patients undergoing dental treatment, as well as in terms of the dentist's health.</i>	D.U2., G.U1., G.U4.,
	C3 Identification of environmental risk factors - medical history, dental office environment. Finding reliable sources of information, interpreting the results. <i>The aim of the classes is to consolidate the knowledge acquired in lectures and seminars on hazards in the workplace of dentists.</i>	G.W3., G.W13., G.U4., G.U14., G.U17.-19.
	C4 Assessment of indoor air purity (including dental out-patient clinic) by sedimentation method. <i>The aim of the classes is to consolidate the knowledge acquired in lectures and seminars on the importance of air quality for the health of medical workers by conducting laboratory tests.</i>	G.W13., G.U12., G.W20.,
	C5 Dental practitioner workplace hazards (body position, ultraviolet light, mechanical vibration, noise, crystalline silica, aluminum, nickel and chromium compounds, beryllium, ethylene oxide, latex and others). <i>The aim of the classes is to continue the knowledge acquired in lectures and seminars on the risks associated with occupational exposure of dentists.</i>	G.W2., G.W15., G.U7., G.U15., G.U16.
	C6 Recognition and reporting of occupational diseases. <i>The aim of the classes is to consolidate the knowledge acquired in lectures and seminars on occupational diseases by practicing the procedures of reporting occupational diseases.</i>	G.W14.-15., G.U1., G.U4.
	C7 Building health policy programs. <i>As part of the classes, EDD students propose health care plans acquiring the skills to create them properly and consolidating the knowledge gained in lectures and seminars.</i>	G.W3.-4., G.U1., G.U15
	C8 Recognition and reporting of infectious diseases. <i>The aim of the classes is to consolidate the knowledge acquired in lectures and seminars on occupational diseases by practicing the procedures of reporting occupational diseases.</i>	G.W16., G.W17., G.W20., G.U18., G.U19.
	C9 Development of an epidemic outbreak. <i>The aim of the exercises is to consolidate the knowledge acquired in lectures and seminars on infectious diseases by developing a case of an epidemic outbreak of an infectious disease.</i>	G.W16., G.W17., G.W20., G.U18., G.U19.
	C10 – 12 Epidemiology in practice: study planning, interpretation of	G.W16., G.W17., G.W20.,

	results, use of statistical methods, interpretation of results. <i>The aim of the classes is to consolidate the knowledge acquired in lectures and seminars on epidemiological research by creating scientific research programs aimed at prevention and treatment of oral diseases.</i>	G.U18., G.U19.
	C13- 15 Selection and interpretation of screening tests. <i>The aim of the classes is to consolidate the knowledge acquired in lectures and seminars on screening by acquiring the skills to create screening programs.</i>	G.W16., G.W17., G.W20., G.U18., G.U19.

7. LITERATURE

Obligatory

1. Friedman G.D. Primer of Epidemiology. McGraw-Hill, New York (available in the Institute)
2. Jędrychowski W, Muger U. Epidemiologic methods in studying chronic diseases. International Center for Studies & research in Biomedicine, Luxembourg 2000.
3. Gerald van Belle, Lloyd D. Fisher, Patrick J. hearty, Thomas S. Lumley. Biostatistics: A methodology for health sciences. 2nd Edition, August 2004.
4. Ahrens W., Pigeot I. Hanbook of Epidemiology. Springer-Verlag, Berlin, Heilderberg 2005 (selected chapters)
5. Shills ME et al. Modern nutrition in health and disease, LWW 2010
6. Gibney MJ et al. Introduction to Human Nutrition, Wiley-Blackwell 2009
7. Escott – Stump S, Nutrition and Diagnosis-related care, LWW 2007
8. Rom WN, Environmental and occupational medicine, LWW 2006
9. Levy BS, Occupational and environmental health, LWW 2005
10. www.who.org
11. Polish Journal of Nutrition
12. American Journal of Preventive Medicine

Supplementary

1. <https://www.who.int/> - World Health Organization webpage
2. <https://www.ecdc.europa.eu/en> - European Centre for Disease Prevention and Control webpage
3. <https://www.cdc.gov/> - Centers for Disease Control and Prevention webpage

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
B.W22., G.W2.-3., G.W6., G.W14.-16., G.W20., W1, D.U2., G.U1., G.U4., G.U7., G.U13.-16., G.U18.-19., U1, U2, K1	Participation in e-learning lectures. Solving quizzes and test. Obtaining a certificate.	Scoring 100% of possible points in e-learning activities.
E.W11., D.U2., G.W3.-4., G.W13.-16., G.W20., G.U1., G.U7., G.U12., G.U15.-19.	Attendance at all seminar classes. Active participation in the seminars.	Credit - completion of tasks to be developed in at least 61%, which is equivalent to a positive assessment
G.U1., G.U7., G.U12., G.U14.-19., G.W2.-3., G.W13., G.W15.-17., G.W20.	Passing the practical tasks during the classes. Positive evaluation of the acquired skills and competences obtained from the teacher - exercise report. Preparation and presentation of a given topic related to health promotion.	Credit - completion of tasks to be developed in at least 61%, which is equivalent to a positive assessment

B.W22, E.W11., G.W2.-6., G.W12.-17., G.W20., W1, G.U1., G.U4., G.U7., U1, U2, K1	The final written exam, including the content of lectures, seminars and exercises.	Single-choice test with 50 questions. Examination time is 60 minutes. To pass a student needs to score at least >61% correct answers (out of 50). Assessment Criteria 2. 0 (failed) <31 points. 3. 0 (satisfactory) 31-37 points 3. 5 (satisfactory +) 38-40 pts 4. 0 (good) 41-42 pts 4,5 (good +) 43-45 pts 5. 0 (very good) 46-50 pts
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9. ADDITIONAL INFORMATION

1. In the implementation of the course it is important to attend lectures, they present the latest scientific developments.
2. Person responsible for conducting the didactics: Anna Jagielska, MD, PhD, anna.jagielska@wum.edu.pl
3. Absences (excused) can be made up with another group by prior arrangement with the person in charge of teaching.
4. Conditions of conducting the exercises: punctuality, during the exercises it is forbidden to use mobile phones or recording meetings.
5. The final exam is conducted in the winter session, the test consists of 50 questions, out of 5 answer variants only one is correct, obtaining over 61%, i. e. 31 points or more allows you to pass the exam. The revision date of the exam is planned in the revision session. In the event of failure to pass the examination within the first deadline and within the correction deadline, the date of the examination will be set.
6. The Department of Social Medicine and Public Health is affiliated with the Student Scientific Association of Hygiene and Prevention. Supervisor of SSA - Dr Irena Kosińska, e-mail: irena.kosinska@wum.edu.pl (environmental topics) and Dr Anna Jagielska, e-mail: anna.jagielska@wum.edu.pl and Students Scientific Association of Healthcare Management (contact to a scientific supervisor Dr Magdalena Bogdan: mbogdan@wum.edu.pl). Information about the SSA is available on the Department's website.

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ATTENTION

The final 10 minutes of the last class of the block/semester/year should be allotted for students to fill out the Survey of Evaluation of Classes and Academic Teachers