

**2021/2022. ACADEMIC YEAR
PROGRAM OF STUDY**

Full name of the subject: Népegészségtan	
Program: undivided program (dental)	
Schedule: full-time	
Short name of the subject:	
English name of the subject: Public Health	
German name of the subject: Gesundheitslehre	
Neptun code of the subject:	
Type of registration: obligatory /obligatory elective/elective/criteria requirement	
Responsible department: Department of Public Health of Semmelweis University	
Responsible tutor: Zoltán Ungvári Contact information: 1089 Budapest, Nagyvárad tér 4. 13. em. phone: 210-2954 e-mail: ungvari.zoltan@med.semmelweis-univ.hu	Title, academic degree: director, PhD
Name of the persons responsible for the teaching of the subject: Melinda Péntzes András Terebessy Péter Csépe Ferenc Horváth Vince Pongor	Title, academic degree: senior lecturer, PhD senior lecturer, PhD senior research fellow, PhD assistant lecturer assistant lecturer
Classes per week: 1,5 lecture(s) 2 practice(s)	Credit point(s): 3

Professional content, intent of acquirement and it's function in order to implement the goals of the program:
Acquire skills in qualitative assessment of different epidemiological studies, comprehensive and comprehensible reading of the scientific evidence-based literature. Acquire basic statistical skills. Design and conduct research, choosing the most appropriate epidemiological methods. Conducting individual health promotion based on key lifestyle factors and learning the basics of community health promotion. Apply practical knowledge of epidemiology and infection control.

Short description of the subject:
Public health deals with issues affecting human health at the population level. As an applied science, its basic aim is to preserve and improve health and prevent disease. To achieve these objectives, public health integrates several disciplines. Epidemiology introduces students to the prevention of communicable diseases, with a particular focus on infection control. Classical public health describes the role of environmental factors in the development of disease, the clinical aspects of which are nowadays dealt with in environmental medicine. The main aim of occupational medicine is to protect the health of employees by preventing occupational diseases. Our professional background is strengthened by the fact that our Institute merged with the Department of Occupational and Environmental Medicine of the University in 2010. In addition to disease prevention, the idea of health promotion was pioneered in the second half of the 20th century with the formulation of the "new public health". Our aim is to enable future pharmacists to carry out individual health promotion and to be familiar with the concept of community health promotion. For all these activities, the acquisition and use of epidemiology as a methodology of public health is essential. Our aim is to familiarise students with the application of health promotion and prevention at the population and individual level, preparing them for practice.

Course data

Recommen- ded term	Contact hours (lecture)	Contact hours (practice)	Contact hours (seminar)	Individual lectures	Total number of contact hours/semes- ter	Normal course offer	Consultations
5	21	28			49	Autumn semester* Spring semester* Both semesters* (* Please underline)	

Program of semester

Topics of theoretical classes (pro week):

Week 1: History of Hungarian medicine/public health. Definition of health, levels of prevention. Theoretical foundations of health promotion. The concept and functioning of public health

Week 2: Health determinants. Health status of the Hungarian population. Health determinants in Hungary. Principles of health policy

Week 3: Epidemiology and prevention of smoking and smoking-related diseases

Week 4: Epidemiology and prevention of cardiovascular diseases. Epidemiology and prevention of cancer

Week 5: Epidemiology and prevention of respiratory diseases. Thyroid diseases. Vulnerable groups

Week 6: Mental health. Ageing

Week 7: Obesitas//Diabetes. Physical activity

Week 8: Epidemiology of communicable diseases. Vaccinations

Week 9: Infection control. Nosocomial infections

Week 10: Nutritional status and dietary habits of the Hungarian population. Food safety

Week 11: Environmental health: climate change, environmental health effects of air. Environmental health: soil, water

Week 12: Chemical safety and toxicology. Ionising radiation, types, effects, limits

Week 13: Occupational health. Maternal, infant, child and adolescent health, health inspector network and school health

Week 14: Structure, financing and administration of health and public health in Hungary. Health policy. Quality assurance and quality improvement in health care

Topics of practical classes (pro week):

Week 1: Introduction. Demography

Week 2: Epidemiology. Morbidity measurement (incidence, prevalence). Risk and causality (risk indicators). Epidemiological study types (descriptive studies, analytical studies: cross-sectional, cohort, case-control)

Week 3: Screening tests (population) for public health purposes. Evaluation of screening tests (sensitivity, specificity, predictive values, ROC curve)

Week 4: Interventional studies (RCTs). Meta-analyses. Critical reading

Week 5: Design, organisation and evaluation of health promotion programmes.

Week 6: Smoking and minimal intervention

Week 7: Alcohol SBI (screening and brief intervention)

Week 8: Physical activity/movement recommendations.

Week 9: Mental health, mental hygiene. Prevention of illicit drug use

Week 10: Preparing an individual health plan

Week 11: Epidemiological concepts. Epidemiology system. Epidemiological investigation

Week 12: Practical knowledge of vaccination

Week 13: Case studies in environmental and occupational health

Week 14: Practical exam

Schedule of consultations: if necessary, in agreement with the teacher

Course requirements

Prerequisites:

Conditions of attending the classes, amount of acceptable absents, way of presentation of leave, opportunity for

makeup: In order to obtain a signature, the student must meet at least 75% of the attendance in the practical sessions and seminars. This means 11 completed practicals for 14 practicals (the 3 'allowed' absences do not need to be certified). Make-ups can be made on another practice in the same week.

Number, topics and dates of tests during the semester, opportunities of makeup and improvement of results:

Week 14, a practical exam on the practical material. Failed practical examinations can be made up until the end of the first week of the examination period, in agreement with the trainer, up to a maximum of 2 times.

Requirements of signature: The condition for obtaining a signature is that the student meets the attendance and participation requirement of at least 75% in practical sessions and seminars.

Number and type of projects students have to perform independently during the semester and their deadlines:--

Type of the semester-end examination: signature/practical grade/ <u>semi-final</u> /final
Form of the semester-end examination: written test exam
Prescribed practices outside of the university: -
Scientific, course related researches, publications, essays: Public health e-learning material (https://itc.semmelweis.hu/moodle/)
Necessary equipment:-
The course description was prepared by: Ferenc Horváth MD