

(MED3020) Introduction to Public Health		
Course Date	January 4th -Jan 15th, 2021	
Exam Dates	Theoretical Exam: January 14th, 2021	
Course Coordinator:	FATİH ÖZDENER	
Academic Unit	Academic Staff	Theoretical hours
Public Health	Sebahat Dilek Torun, Assoc. Prof. Melike Yavuz, Assist. Prof. Petek Eylül Taneri, Assist Prof.	21
Infectious Diseases and Clinical Microbiology	Gülgün Dilek Arman, Prof	2
TOTAL		23

PUBLIC HEALTH

COURSE AIM:

The aim of the course to teach students the principles and basic concepts of preventive medicine and public health that are required to identify and to assess health problems of the society and improve health status of the society.

LEARNING OUTCOMES:

At the end of this lesson, the student will be able to:		
DEP	TOPIC	LEARNING OUTCOMES
PUBLIC HEALTH	Public health concepts of history (T-1)	<ol style="list-style-type: none"> 1. Describe public health definition and key terms 2. Identify history of public health 3. Define public health approach, core functions and essential services of public health
	Determinants of Health (T-2)	<ol style="list-style-type: none"> 1. Explain the determinants of health 2. Define and provide examples of social determinants of health 3. Define health equity and disparities 4. Provide examples of health disparities 5. Describe health disparities existing in Turkey 6. Describe the basis for the common risk factor approach 7. Illustrate the social ecological framework
	Control of communicable diseases (T-1)	<ol style="list-style-type: none"> 1. Describe chain of infection 2. Define reproductive rate 3. Identify factors that influencing transmission 4. Describe transmission routes 5. Define primary, secondary and tertiary prevention strategies

Epidemiological Approach to Outbreak Investigation (T-1)	<ol style="list-style-type: none"> 1. Define the terms cluster, outbreak, epidemic and pandemic 2. List three reasons why outbreak investigations are important to public health 3. Describe the steps in the investigation of an outbreak 4. Differentiate the terms confirmed case, probable case and suspected case 5. State the purpose of a line listing and epidemic curve 6. Given the initial information of a possible disease outbreak, describe how to determine whether an epidemic exists
Prevention strategies for COVID-19 (T-1)	<ol style="list-style-type: none"> 1. Explain what should be known about the disease in order to prevent COVID-19 2. List the infection control measures for COVID-19 3. Explain each infection control measure with its justification
Health indicators (T-1)	<ol style="list-style-type: none"> 1. Explain the concept of health indicators 2. Explain the uses of health indicators. 3. Classify types of indicators
Elderly health (T-1)	<ol style="list-style-type: none"> 1. Describe population aging and causes 2. Identify demographic and epidemiologic transitions and their consequences 3. Define healthy aging and its key considerations
Occupational Health and Safety (T-2)	<ol style="list-style-type: none"> 1. Define Occupational Health 2. Explain the interrelationships between work and health 3. Describe the historical development of Occupational Health 4. Explain the basic concepts in Occupational Health 5. Explain the scope of Occupational Health 6. Describe the occupational health hazards in a workplace 7. List the common types of occupational health problems 8. Describe the hierarchy of controls 9. Explain Occupational Health profile in Turkey
Health systems and economics (T-1)	<ol style="list-style-type: none"> 1. Define the health system 2. Explain the goals of health system 3. List the functions/building blocks of health system 4. Explain the different health financing systems (tax-based, social insurance, private insurance, out-of-pocket) 5. Classify the health systems and give examples each of them 6. Explain the basic differences of health systems
Health services in Turkey (T-1)	<ol style="list-style-type: none"> 1. Explain the main components of health system in Turkey (stewardship, financing, service delivery) 2. List the therapeutic health services in Turkey 3. Explain the tasks of primary health centers in Turkey
Nutrition and health (T-1)	<ol style="list-style-type: none"> 1. Describe dietary recommendations 2. Identify malnutrition and its subtitles 3. Define double burden of malnutrition
Prevention of chronic diseases (T-1)	<ol style="list-style-type: none"> 1. Describe risk factors and determinants of ncds 2. Identify four major ncds 3. Define individual-based and population-based interventions for ncds
Environment and health (T-1)	<ol style="list-style-type: none"> 1. Define the fundamental terms related with environmental health <ul style="list-style-type: none"> • environment • disease • health 2. Define the environmental health 3. Classify the contributors which are harmful for environment 4. Explain the scope of environmental health sciences 5. List the facets of environmental health sciences

	<ol style="list-style-type: none"> 6. Explain how environment affect health 7. Explain the basic requirements for a healthy environment 8. List the principles of public health in solving the environmental health problems
Global warming and climate change (T-1)	<ol style="list-style-type: none"> 1. Define climate change 2. Explain the causes of climate change 3. Define the global warming 4. Explain the greenhouse effect and its causes (ghgs)
Travel health (T-1)	<ol style="list-style-type: none"> 1. Explain why travelers are important epidemiologically 2. Explain how travel affects the health of traveler 3. Explain the components of pretravel consultation 4. Explain what precautions should be given to travelers about water and food 5. Explain the travelers' diarrhea and precautions for it. 6. List the environmental hazards and other noninfectious health risks to travelers 7. Explain the jet lag.
Maternal and child health (T-1)	<ol style="list-style-type: none"> 1. Define maternity and maternal health 2. Explain why maternal and child health is important 3. Explain the objectives of maternal and child health care programs 4. Explain the importance, objectives and content of maternal health care programs (prepregnancy, antenatal, intranatal, postnatal). 5. Explain the objectives and content of infant and child health care programs in turkey
Reproductive Health and Family Planning (T-2)	<ol style="list-style-type: none"> 1. Define reproductive health and family planning 2. Describe the components of reproductive health 3. List the advantages of family planning 4. Explain the various contraceptive methods, including ideal and typical failure rates, mechanism of action and benefits 5. Differentiate contraception and family planning 6. Explain the various options for emergency contraception, including efficacy, mechanism of action and indications for use. 7. Explain the current use and trends of contraceptive methods in Turkey
Population and Health (T-2)	<ol style="list-style-type: none"> 1. List the sources of demographic data 2. Use demographic measures to describe populations composition, profile, change 3. Explain the Demographic Transition Model 4. Describe basics of population transition 5. Explain the relation between basic demographic measures and health level of populations 6. Interpret a Population Pyramid 7. Describe the demographic indicators in Turkey 8. Explain the trend of the population in the world and Turkey.

At the end of this lesson, the student will be able to:

DEP	TOPIC	LEARNING OUTCOMES
INFECTIOUS DISEASES AND CLINICAL MICROBIOLOGY	Adult Immunization (T-1)	<ol style="list-style-type: none"> 1. List the reasons for adult immunization 2. List the risk factors for vaccine preventable diseases 3. List the pathogen/disease which an adult with no risk factor, should be immune 4. List the recommended vaccine requirements according to risk groups 5. Search for general requirements and reach trusted references 6. Understand the adult vaccination needs 7. Understand that the recommendations may vary temporally according to changing epidemiology
	Infectious risk of health workers (T-1)	<ol style="list-style-type: none"> 1. List the HCW's infectious risks 2. Tell the transmission ways of pathogens to HCW 3. List the preventive measures for infectious risks of HCW 4. List the vaccination requirements of HCW 5. List the required PPE 6. Tell the consequence of wearing PPE 7. Understand the infectious risks of himself/herself 8. Accept the vaccine requirements