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FACULTY OF STOMATOLOGY STUDY PROGRAM 0911.1 STOMATOLOGY CHAIR OF MANAGEMENT AND PSYCHOLOGY

APPROVED

at the meeting of the Committee for Quality
Assurance and Evaluation of the Curriculum
Faculty of Stomatology

Minutes no ____ of _____

Committee president PhD DMS,

Associate professor

Elena Stepco _____

APPROVED

at the Council meeting of the
Faculty of Stomatology

Minutes no ____ of _____

Dean of Faculty of Stomatology

PhD DHMS, Professor

Sergiu Ciobanu _____

APPROVED

approved at the meeting of the
chair Management and Psychology

Minutes no 11 of 14.02.2018

Head of chair PhD DHMS, Professor

Larisa Spinei _____

CURRICULUM

DISCIPLINE: SOCIAL MEDICINE

Integrated studies

Type of course: **Compulsory discipline**

Chisinau, 2018



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I. INTRODUCTION

- **General presentation of the discipline: place and role of discipline in the formation of specific competences of professional / specialty training program**

Social Medicine course is made up of a series of themes whose aim is knowledge of medical-demographic, medical-social problems at the level of humanity (especially those in the field of dental services). The necessity and usefulness of the Social Medicine course for medical students resides in the imperative knowledge of the medical practice regarding the particularities of the public health systems in the world and the characteristic of medical insurance; the processes of surveillance of the medical-social pathology with the application of activities promoting the healthy lifestyle, health education of the future doctors. Knowing the methods of calculating the medical-demographic indicators, of health will allow future doctors to determine the level of risk factors for the health of the population, promoting healthy lifestyles, applying effective forms of health education, and supervising patients. Future doctors need to know the elements of organization of different healthcare models. The analytical skills of the medical-social problems of humanity will allow the involvement in the primary and secondary prevention of pathologies in the medical-social group.

As a solution to the new requirements for professional skills training of the future specialist, the **Social Medicine** course is proposed for **60** hours during one semester.

The application of medical insurance-based medicine requires knowledge regarding knowledge of the ways of providing medical services to the population.

Forming professional skills of future doctors in the organization and delivery of quality medical services to the population is based on studying the **Social Medicine** discipline by all specialties in the field of medicine.

- **Mission of the curriculum (aim) in vocational training**

It consists in the formation of the knowledge and skills of the future doctors in the organization of the health care provided to the population and the appreciation of the quality of the medical services in order to: influence the organization of the healthy way of life, increase the health level of the population and prevent the occurrence and/or increase of the share of communicable diseases, diseases with medical-social and behavioral aspects.

- **Languages of the course:** Romanian, English.
- **Beneficiaries:** students of the IV years, 8th semester, Faculty of Stomatology.



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II. MANAGEMENT OF THE DISCIPLINE

Code of discipline	S.08.O.100		
Name of the discipline	Social medicine		
Persons in charge of the discipline	PhD, associate professor, Alina Ferdohleb PhD, associate professor, Mihail Moroşanu assistant professor, Nina Globa		
Year	IV	Semester	8
Total number of hours, inclusive: 60			
Lectures	14	Practical / laboratory hours	25
Seminars	10	Self-training	11
Evaluation form	DC	Number of credits	2

III. TRAINING AIMS WITH IN THE DISCIPLINE

At the end of the discipline study the student will be able to:

- **at the level of the knowledge and understanding:**

- know the purpose and objectives of Social medicine;
- know the phenomena and relevant demographic processes in public health;
- know the methodology for calculating the socio-demographic, medical-social indicators;
- know the medical-social problems of humanity and their impact on society;
- know the medical-social aspects of pathologists from the practice of the dentist;
- know the notion of morbidity through temporal incapacity to work;
- know the principles of the medical-social expertise of the work capacity;
- know the notions of disability and degree of disability (functional and physical deficiency);
- know the organization and activity of health services;
- know the organization of dental care for the population of the republic;
- know the basic principles of promoting healthy lifestyle and health education.

- **at the application level:**

- operate with the methods of calculating the socio-demographic, medical-social indicators, activity of the sanitary institutions and the dental service indicators;
- apply the methods of collecting, analyzing and presenting the results of medical-social research;
- describe the organizational structure of different types of public health services;



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- appreciate the principles and methodology of promoting healthy lifestyles.
- *at the integration level:*
- apply the knowledge gained in **Social Medicine** course in the context of the future professions;
- promote knowledge in the medical and social problems of the community with the elaboration of prophylactic programs;
- promote optimal decisions in assessing the determinants and risks to Public health;
- be able to integrate research projects on the health status of the population and the influence of the risk factors on it;
- promote and to ensure healthy lifestyle measures among the beneficiaries of the dental service and society members.

IV. PROVISIONAL TERMS AND CONDITIONS

4th year student will be required to fulfill the following:

- to know the language of teaching;
- to have confirmed competencies in practice at high school subjects: biology, demography (economic geography), mathematics (statistics), informatics;
- to have digital skills (Internet use, processing of documents, spreadsheets and presentations);
- to have communication skills, teamwork for presentation of the topics discussed at the seminars;
- to have personal qualities and abilities - tolerance, empathy, independence, abstraction, discernment.

V. THEMES AND ESTIMATE ALLOCATION OF THE HOURS

Lectures, practical hours / seminars and self-training

no. d/o	TOPICS	No. of the hours			
		Lectur es	Semin ars	Prac tices	Self training
1.	Social medicine as a science and object of study. Dental public health (notions, principles, domains, etc.).	2	1	3	1
2.	Demography applied in Public Health. The phenomenon of population aging.	2	1	3	1
3.	Morbidity of the population. International classification of diseases – 10, WHO revision.	2	2	4	1
4.	Characteristic of public health systems in the world. Insurance medicine.	2	1	3	1
5.	Management of health service. Management of primary health care, pre-hospital emergency care, ambulatory specialized medical assistance, hospital medical care, high-performance medical services, state public health care service, etc.	2	1	3	1
6.	Management of Dental Service.	1	1	3	2



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no. d/o	TOPICS	No. of the hours			
		Lectur es	Semin ars	Prac tices	Self training
7.	The characteristic of the medical-social problems of humanity. Transmissible and non-transmissible diseases. Diseases related to the deficiency or high content of some microelements, vitamins. Diseases related to behavioral factors.	2	2	3	3
8.	Lifestyle. Healthy way of life. Health promotion and health education: principles, tasks, areas of application and forms of realization.	1	1	3	1
Total		14	10	25	11

VI. REFERINCE OBJECTIVES OF CONTENT UNITS

Objectives	Content units
Theme (chapter) 1. Social medicine as a science and object of study. Dental public health (notions, principles, domains, etc.).	
<ul style="list-style-type: none"> to define the purpose and objectives Social Medicine as object of study and research. know study compartments of social medicine. to define the purpose, objectives, principles of Dental public health as an object of science to demonstrate the role of factors and determinants on the state of health of the population. 	Social Medicine -purpose and objectives Social Medicine - study compartment Public health-concept and principles Public health- domains Dental Public health - concept and principles National Program of Dental Health for Children in the Republic of Moldova – concept and principles
Theme (chapter) 2. Demography applied in public health. The phenomenon of population aging.	
<ul style="list-style-type: none"> to know the purpose, objectives and demographic compartments applied in public health to define the main events, phenomena and demographic processes (the indicators of appreciation with the medical-social particularities) to describe the main features of demographic indicators to apply knowledge on the calculation and interpretation of migration indicators about the demographic study to demonstrate skills in analyzing the natural movement of the population, by calculating and 	demographic applied in public health - objectives and compartments the demographic indicators of events, phenomena and processes (with medical and social particularities) The natural movement of the population – notion The medical-social characteristic of the indicators of the natural movement of the population



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Objectives	Content units
<p>interpreting the indicators of the natural movement of the population.</p> <ul style="list-style-type: none"> to identify the factors and determinants that influence some phenomena and demographic processes to demonstrate abilities in the slogan “decent work for all ages” and the medical-social aspects of the aging population to understand the importance of demography for Social Medicine. 	<p>The medical-social factors and determinants which influence the demographic indicators</p> <p>the aspects of the aging of population – (Decent work for all ages)</p>
Theme (chapter) 3. Morbidity of the population. International classification of diseases – 10, WHO revision.	
<ul style="list-style-type: none"> to define the purpose and objectives of the study of the morbidity of the population. to know the methods of research of the morbidity of the population to demonstrate abilities in calculating the morbidity indicator depending on the type and the observation unit to know morbidity with TWI to demonstrate capabilities in the expertise of temporary work incapacity (TWI), characteristic of this to know the basic principles in determining the degree of disability (degree of functional and physical deficiency of the individual) - CIF to demonstrate skills in the International Classification of Diseases (CIM-10) in the International Classification of Functionality (CIF). 	<p>Morbidity of the population - notion, objectives and compartment of the study</p> <p>Methods of morbidity research</p> <p>Indicators of morbidity by type and their observation units</p> <p>Morbidity with TWI</p> <p>Medical-social expertise a working capacity, work capacity preserved and disability</p> <p>International Classification of Diseases CIF-10</p> <p>International Classification of Functionality</p>
Theme (chapter) 4. Characteristic of public health systems in the world. Insurance medicine.	
<ul style="list-style-type: none"> to know the characteristics of different types of public health systems in the world to know the types of medical insurance and their characteristics to know the functions of health insurance to demonstrate knowledge in medical insurance categories to know the priorities and particularities of mandatory health insurance (AOAM) to apply knowledge to determine the volume of healthcare and the financing of mandatory health insurance 	<p>Public health systems</p> <p>Medical insurance by type, functions and categories</p> <p>Social health insurance</p> <p>AOAM's peculiarities and priorities</p> <p>Volume and funding within AOAM</p> <p>Treated case, Case provided</p>



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Objectives	Content units
Theme (chapter) 5. Management of health service. Management of primary health care, pre-hospital emergency care, ambulatory specialized medical assistance, hospital medical care, high-performance medical services, state public health care service, etc.	
<ul style="list-style-type: none"> to be familiar with the principles of primary care and pre-hospital emergency medical assistance to demonstrate knowledge in the structure, management of emergency medical care, pre-hospital emergency medical care, hospital service, state public health service, etc. to demonstrate knowledge of basic medical documentation at different health services to demonstrate knowledge of how to track and route medical documentation. to apply the analytical and interpretive skills of activity indicators of different health services. 	Primary Care (AMP) Emergency Medical Assistance (AMU) Pre-hospital Emergency Medical Assistance (AMUP) Hospital Service (SS) State Public Health Surveillance Service (SSSSP) Basic indicators of health service activity
Theme (chapter) 6. Management of Dental Service.	
<ul style="list-style-type: none"> to demonstrate knowledge about the purpose and tasks of the dental service. to demonstrate knowledge of the services provided in the IMMS CSMS (consultative, dental, ambulatory dental surgery, dental prosthesis, dental / maxillary imaging Para clinics) to demonstrate knowledge of the basic components of the dental office (public / private type) to apply knowledge skills on CSMS medical documentation to demonstrate knowledge of analysis and interpretation of dental office activity indicators, dental service. 	Dental service - notion, purpose and tasks Medical Institution of the Chisinau Municipal Dental Center (IMCSMC) - structure and type of services Basic medical documentation in the dental center (CS) Indicators of activity of the dental service, of the dental office Public and private CS management
Theme (chapter) 7. The characteristic of the medical-social problems of humanity. Transmissible and non-transmissible diseases. Diseases related to the deficiency or high content of some microelements, vitamins. Diseases related to behavioral factors.	
<ul style="list-style-type: none"> to demonstrate knowledge about the medical-social problems of humanity. to demonstrate knowledge of communicable and non-communicable diseases to demonstrate knowledge about maladies related to deficiency and high content of microelements, vitamins, etc. to demonstrate knowledge about behavioral-related diseases 	The medical-social problems of humanity. Transmissible and non-communicable diseases. Diseases with medical-social aspects. Measures to prevent and reduce the rate of diseases with medical-social aspects



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Objectives	Content units
Theme (chapter) 8. Lifestyle. Healthy way of life. Health promotion and health education: principles, tasks, areas of application and forms of realization.	
<ul style="list-style-type: none"> to demonstrate knowledge on the way of life; to demonstrate knowledge about healthy lifestyles. to demonstrate the skills in applying and shaping healthy lifestyles to demonstrate skills in determining risk factors and promoting the healthy environment within the working environment 	<p>the way of life</p> <p>Healthy lifestyle - elements, types and activities</p> <p>Medical activity and production of the way of life.</p> <p>Priority rules of healthy lifestyle.</p> <p>Health education - purpose, tasks, priorities, sides (obstacles), forms, methods</p>

VII. PROFESIONAL (SPECIFIC) (SC) AND TRANSVERSAL (TC) COMPETENCES AND STUDY OUTCOMES

PROFESSIONAL (SPECIFIC) (SC) COMPETENCES

PC 1. Identifying and using the goals, objectives and principles of social medicine and its components.

PC 2. The thorough knowledge of the characteristics of demographic components applied in public health, types of morbidity, types of incapacity for work, causes and principles of medical-social expertise of work capacity (CIF).

PC 3. Understanding and thorough knowledge of the planning, organization, development and supervision of activities within the dental office (public / private type)

PC 4. Possessing knowledge and skills in the formation of healthy lifestyles and the application of health education forms and methodologies. Strong knowledge of the principles of analysis and interpretation of activity indicators of dental chambers, dental service, and management of public health systems in the world.

PC 5. Understanding and identifying the principles of mandatory health insurance, the characteristics of humanity's disease groups with medical-social aspects.

PC 6. A thorough knowledge of the structure of the primary health care service, emergency medical assistance, pre-hospital emergency care, hospital care, dental care, etc .; thorough knowledge of medical documentation and activity indicators.

TRANSVERSALE COMPETENCES (TC)

TC 1. The manifestation of responsible attitudes towards the didactic field with the application of rigorous and efficient conscious work rules in the thorough knowledge of the taught material and the



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optimal and creative valorization of their own potential in the practical application situations by observing the norms of professional ethics.

TC 2. Ensure effective deployment and effective engagement in team activities.

TC 3. Identifying opportunities for continuous training and efficient use of learning resources and techniques for their own development.

FINALITY OF THE STUDY

At the end of the course, the student will be able to:

- to know the components of organizing and directing the study of a population health level;
- to know the ways of analyzing the medical-demographic phenomena and processes, the activities of the medical services with the elaboration of ways to increase the level of population's health;
- to identify the main factors of influence on healthy lifestyle, health, morbidity with temporal incapacity and disability;
- apply various ways of determining demographic, medical-social indicators, primary health care services, emergency medical care, pre-hospital emergency care, hospital and dental services;
- to apply the analysis of the impact of a disease with medical-social aspects on humanity, the management of public health systems, insurance by population insurance;
- apply quality assurance analysis of mandatory health insurance.



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VIII. STUDENT'S SELF-TRAINING

No.	Expected product	Implementation strategies	Assessment criteria	Implementation terms
1.	Working with books and CIT	The systematic work in the library and media. Exploring current electronic sources on the subject under discussion	1. The quality of discernment, logical thinking, flexibility. 2. The quality of systematization of the informational material obtained through its own activity.	during the module
2.	Case study analysis and solution of the problems of the situation	Choice and description case study / the situation problem. Analysis of the causes of the issues raised in the case / case study. Prognosis of the case investigated. Deduction of the expected outcome of the case.	1. Analysis, synthesis, generalization of data obtained through own investigation. 2. Formation of an algorithm of knowledge based on the obtained conclusions.	during the module
3.	Report	Analysis of relevant sources on the topic of the paper. Analysis, systematization and synthesis of information on the proposed theme. Compilation of the paper in accordance with the requirements in force and presentation to the chair.	1. Quality of systematization and analysis of the obtained informational material through their own activity 2. Concordance of information with the proposed theme	during the module

IX. METHODOLOGICAL SUGGESTIONS FOR TEACHING-LEARNING ASSESSMENT

Teaching and learning methods used

In the teaching process of the discipline are used different didactic methods, oriented towards the efficient acquisition and achievement of the objectives of the didactic process. In the theoretical lessons, along with the traditional methods (lesson-exposure, lesson conversation), modern methods



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(lesson-debate, problematic lesson) are also used. In the practical lessons, forms of individual, frontal and group working are widely used.

Recommended learning methods:

Observation - Identification of elements characteristic of structures or biological phenomena, description of these elements or phenomena.

Analysis - Imaginary decomposition of the whole into component parts. the essential elements highlighting. Studying each element as part of the whole.

Comparison - Analysis of the first object / process in a group and determination of its essential features. Analysis of the second object / process and the determination of its essential features. Comparing objects / processes and common features highlighting. Comparing objects / processes and determining differences.

Modeling - Identifying and selecting the elements needed to model the phenomenon. Imaging (graphically, schematically) the studied phenomenon. Formulation of conclusions deduced from arguments or findings.

Experiment - Formulation of a hypothesis, based on known facts, on the studied process / phenomenon. the hypothesis verifying by performing the processes / phenomena studied under laboratory conditions. The conclusions formulation deduced from arguments or findings.

- **Applied teaching strategies / technologies** (*specific to the discipline*) "Brainstorming", "Multi-voting"; "The round table"; "Group Interview"; "Case Study"; "Creative Controversy"; "Focus group", "Portfolio", "Group work", "Presentation".
- **Methods of assessment** (*including the method of final mark calculation*)
- **Current:** frontal and / or individual control through:
 - case studies analysis.
 - role plays performing on the discussed topics.
 - control work - 2 test papers
 - individual work assessment
- **Methods of assessment** (*including the method of final mark calculation*)
- **Current:** frontal and / or individual control through:



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- case studies analysis.
- role plays performing on the discussed topics.
- control work - 2 test papers
- individual work assessment

Final: differentiated colloquium

The **final mark** will consist of the average score from 2 control papers and the mark at student's individual work (score-0.5), + the final test (score-0.5). The average annual mark and the marks of all the final exam stages (assisted by computer, test) – all will be expressed in numbers according to the scoring scale (according to the table) and the obtained final mark will be expressed in two decimal number being passed in the credit book

Method of mark rounding at different assessment stages

Intermediate marks scale (annual average, marks from the examination stages)	National Assessment System	ECTS Equivalent
1,00-3,00	2	F
3,01-4,99	4	FX
5,00	5	E
5,01-5,50	5,5	
5,51-6,0	6	
6,01-6,50	6,5	D
6,51-7,00	7	
7,01-7,50	7,5	C
7,51-8,00	8	
8,01-8,50	8,5	B
8,51-9,00	9	
9,01-9,50	9,5	A
9,51-10,0	10	

Note: Absence on examination without good reason is recorded as "absent" and is equivalent to 0 (zero). The student has the right to have two re-examinations.



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X. RECOMMENDED LITERATURE:

A. Compulsory:

1. Ețco Constantin, Moroșanu M., Capcelea A. *Medicina socială*. In: Meidicină, Chișinău. 2005, 304 p.
2. Ferdohleb A., Ețco C. Social medicine - course for Dental faculty's students. Centrul Editorial-Poligrafic *Medicina*. Chișinău, 2011, 121 p.
3. Spinei L. *Metode de cercetare și analiză a stării de sănătate*. Chișinău, 2012, 512 p.
4. Spinei L., et.al. *Epidemiologie și metode de cercetare*. Chișinău, 2006, 224 p.

B. Additional:

1. Ancușă M., Ciobanu V. *Probleme de sănătate publică*. Timișoara, 1998.
2. Dental health among children. *Health at a Glance 2009: OECD Indicators*. In: OECD Publishing, 2009. Disponibil la: http://dx.doi.org/10.1787/health_glance-2009-12-en
3. Duda R.C. *Sănătate Publică și Management*. Editura Moldotip. Iași. 1996.
4. Duma O. *Sănătate Publică și Management*. Edit. MATRIXROM. București. 2003. 275 p.
5. Duma Odetta. *Demografie aplicată în Sănătatea publică*. Disponibil la: <http://www.umfiasi.ro/Rezidenti/suporturidecurs/Facultatea%20de%20Medicina/Sanatate%20Publica%20si%20Management%20Sanitar/SANATATE%20PUBLICA%20SI%20MANAGEMENT-REZIDENTI%20EPIDEMIOLOGIE/DEMOGR%20POSITIVE%20ODUMA.pdf>
6. Duma O., Zanoschi G., Iliescu M., Manole M. *Elemente de statistică aplicată în sănătatea publică*. 2003. Iași. 122 p.
7. Enăchescu D., Marcu M. *Sănătate Publică și Management Sanitar*. 1995.
8. Enăchescu D., Marcu Gr. *Sănătate publică și managementul sanitar*. București, 1998.
9. Havriliuc C.A., Vitcu L., Duda R. *Sănătate Publică și Management*. Iași. 1995.
10. Marcu A., Marcu M., Vitcu L., Scîntee S., Galan A., Vitcu A., Popa I., Florescu I. *Metode utilizate în monitorizarea stării de sănătate publică*. București, 2002.
11. Platform for Better Oral Health in Europe – Summer 2014 newsletter. Disponibil la: <http://www.oralhealthplatform.eu/>
12. Popescu A.A. *Management și Marketing Sanitar. Asistență și protecție socială*. Editura Medicală
13. Tulchinsky T., Varavicova E. *The new public health*. Ierusalim, 1999.
14. Vlădescu C. *Managementul serviciilor de sănătate*. București. 2000.
15. Zanoschi G. *Sănătate. Publică și Management Sanitar*. Iași, 2003. 320 p.