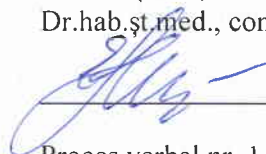


APROB
 Șef Catedră de medicină socială și
 management sanitar "Nicolae
 Testemițanu",
 Dr.hab.șt.med., conf.univ.

 Elena Raevschi

Proces verbal nr. 1 din 30 august
 2019

Themes of lectures, practical seminars and self-training for the course

BIOSTATISTICS AND RESEARCH METHODOLOGY,

Second year students, Faculty Medicine 2

Date: semester III, 2019-2020

Practical classes	THEME	Number of hours		
		Lectures	Practical hours	Self- training
1	Introduction to Biostatistics and Research Methodology.	1	3	1
2	Descriptive statistics: - Types of data (variables); - Scales of measurement; - Graphs; - Tables; - Frequency distribution; - Shape of a frequency distribution.	1	3	2
3, 4	Summarizing quantitative data with numbers: - Measures of central tendency; - Measures of variability; - Frequency distribution (normal, skewed, bimodal, uniform); - Empirical rule; - "Boxplot".	2	6	4
5	Summarizing qualitative data with numbers: - Ratio, proportion and rate; - Types of rate; - Direct method of standardization; - Vital statistics (mortality, morbidity).	1	3	2
6, 7	Correlation and regression: - Pearson's correlation coefficient; - Spearman's correlation coefficient; - Scatterplots; - Types of regression.	1	6	6
	Midterm test 1 "Descriptive statistics" (SIMU) <u>date: 07.10.19-11.10.19</u>			

Practical classes	THEME	Number of hours		
		Lectures	Practical hours	Self-training
8, 9	Inferential statistics: <ul style="list-style-type: none"> - Probability; - The Law of Large Numbers; - Standard error; - Probability and non-probability samples; - Confidence Intervals; - Basic steps of hypothesis testing; - Type I and II errors; Parametric and non-parametric tests.	3	6	6
10, 11	Introduction to Research Methodology: <ul style="list-style-type: none"> - Research: definition, characteristics and types; - Steps of research process; - Formulation of research problem; - Classification of epidemiological study designs; - Descriptive study designs: classification, methodological principles and characteristics; - Case series study and cross-sectional studies. Midterm test 2 "Correlation & Inferential statistics" (SIMU) date: 04.11.19-08.11.19	2	6	6
12	Preparing research design: <ul style="list-style-type: none"> - <i>Case Control study</i> 	1	3	3
13	Preparing research design: <ul style="list-style-type: none"> - <i>Cohort study</i> 	1	3	3
14	Preparing research design: <ul style="list-style-type: none"> - <i>Clinical trials</i> 	2	3	3
15	Presentation of research findings. Plagiarism and scientific research. Midterm test 3 "Research Methodology" (SIMU) date: 02.12.19-06.12.19	2	3	6
16, 17	Student's project presentation.	-	6	10
Total		17	51	52

Professor in charge of international students

Dr. Olga Penina