

APROB

Şef catedră de Medicină socială şi
management sanitar "Nicolae Testemiţanu",
dr. hab. şt. med., conf. univ.

Elena Raevschi

Proces verbal nr. 7

din 2020 / 22 ianuarie

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

BIostatISTICS AND RESEARCH METHODOLOGY,

Second year students, Faculty Medicine 2

Date: spring semester, 2019-2020

Week	THEME	Number of hours		
		Lectures	Practical hours	Self-training
1	Introduction to Biostatistics and Research Methodology.	1	3	1
2	Descriptive statistics: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - Ratio, proportion and rate; - Types of rate; - Direct method of standardization; - Vital statistics (mortality, morbidity). 	1	3	2
6, 7	<u>Midterm test 1 "Descriptive statistics" (SIMU)</u> <u>date: 12.03.20</u> Correlation: <ul style="list-style-type: none"> - Pearson's correlation coefficient; - Spearman's correlation coefficient; - Scatterplots. 	1	6	6
8, 9	Inferential statistics: <ul style="list-style-type: none"> - Probability; 	3	6	6

Practical classes	THEME	Number of hours		
		Lectures	Practical hours	Self-training
	<ul style="list-style-type: none"> - 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. 			
10	Midterm test 2 "Correlation & Inferential statistics" (SIMU) date: 09.04.20 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. 	2	3	6
11	Preparing research design: <ul style="list-style-type: none"> - <i>Case Control study</i> 	1	3	3
12	Preparing research design: <ul style="list-style-type: none"> - <i>Cohort study</i> 	1	3	3
13	Preparing research design: <ul style="list-style-type: none"> - <i>Clinical trials</i> 	2	3	3
14	Midterm test 3 "Research Methodology" (SIMU) date: 14.05.20 Presentation of research findings. Plagiarism and scientific research.	2	3	6
15, 16, 17	Student's project presentation.	-	9	10
Total		17	51	52

Şef de studii responsabil instruire în limba engleză
 dr. şt. med., conf. univ.

Olga Penina
