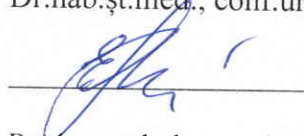


APROB  
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 Elena Raevschi

Proces verbal nr. 1 din 1/09/2020

## Themes of lectures, practical seminars and self-training

### "Biostatistics. Research Methodology"

Medicine nr. II Faculty, II<sup>nd</sup> year,  
 2020-2021 (semester III)

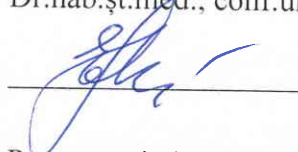
Week	THEME	Number of hours		
		Lectures	Practical hours	Self-training
1,2	Introduction to Biostatistics and Research Methodology. Descriptive statistics: <ul style="list-style-type: none"> <li>- Types of data (variables);</li> <li>- Scales of measurement;</li> <li>- Graphical presentation of data;</li> <li>- Tables;</li> <li>- Histogram and frequency polygon;</li> <li>- Frequency distribution and its shape.</li> </ul>	2	6	3
3, 4	Summarizing quantitative data with numbers: <ul style="list-style-type: none"> <li>- Measures of central tendency;</li> <li>- Measures of variability;</li> <li>- Frequency distribution (normal, skewed, bimodal, uniform);</li> <li>- Empirical rule;</li> <li>- "Boxplot".</li> </ul>	2	6	4
5	Summarizing qualitative data with numbers: <ul style="list-style-type: none"> <li>- Ratio, proportion and rate;</li> <li>- Types of rate;</li> <li>- Direct method of standardization;</li> <li>- Vital statistics (mortality, morbidity).</li> </ul>	1	3	2
6, 7	<b>Midterm test 1 "Descriptive statistics"</b> <b>date: 05.09.20-09.10.20</b>  Inferential statistics: <ul style="list-style-type: none"> <li>- Probability;</li> <li>- The Law of Large Numbers;</li> <li>- Standard error;</li> <li>- Probability and non-probability samples;</li> <li>- Types I and II errors;</li> <li>- Confidence Intervals.</li> </ul>	1,5	6	6
8	<ul style="list-style-type: none"> <li>- Basic steps of hypothesis testing;</li> <li>- Parametric and non-parametric tests.</li> </ul>	1,5	3	3
9.	Correlation: <ul style="list-style-type: none"> <li>- Pearson's correlation coefficient;</li> </ul>	1	3	3

Week	THEME	Number of hours		
		Lectures	Practical hours	Self-training
	<ul style="list-style-type: none"> <li>- Spearman's correlation coefficient;</li> <li>- Scatterplots.</li> </ul>			
10,11	<p><b><u>Midterm test 2 "Correlation &amp; Inferential statistics"</u></b> <b><u>date: 02.11.20-06.11.20</u></b></p> <p>Introduction to Research Methodology:</p> <ul style="list-style-type: none"> <li>- Research: definition, characteristics and types;</li> <li>- Steps of research process;</li> <li>- Formulation of research problem;</li> <li>- Classification of epidemiological study designs;</li> <li>- Descriptive study designs: classification, methodological principles and characteristics;</li> <li>- Case series study and cross-sectional studies.</li> </ul>	2	6	6
12	<p>Preparing research design:</p> <ul style="list-style-type: none"> <li>- <i>Case Control and Cohort studies</i></li> </ul>	2	3	3
13	<p>Preparing research design:</p> <ul style="list-style-type: none"> <li>- <i>Clinical trials</i></li> </ul>	2	3	3
14, 15	<p><b><u>Midterm test 3 "Research Methodology"</u></b> <b><u>date: 30.11.20-04.12.20</u></b></p> <p>Presentation of research findings. Plagiarism and scientific research.</p>	2	6	9
16, 17	Student's project presentation.	-	6	10
<b>Total</b>		<b>17</b>	<b>51</b>	<b>52</b>

Şef de studii responsabil instruire în limba engleză  
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**Olga Penina**

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Elena Raevschi

Proces verbal nr. 1 din 1 septembrie 2020

**Lecture schedule**  
**"Biostatistics. Research Methodology"**  
Medicine nr. II Faculty, II<sup>nd</sup> year,  
2020-2021 (semester III)

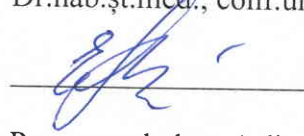
	<b>Subject</b>	<b>Time</b>	<b>Room</b>	<b>Date</b>	<b>Professor</b>
1.	Introduction to Biostatistics. Basic concepts. Types of data and scales of measurement. Frequency distribution. Data presentation	8.00-9.40	Aula "Petru Galețchi"	07.09.20	O. Penina
2.	Summarizing quantitative data with numbers. Measures of central tendency and variability	8.00-9.40	Aula "Petru Galețchi"	21.09.20	O. Penina
3.	Summarizing qualitative data with numbers. Direct method of standardization. Correlation and regression	8.00-9.40	Aula "Petru Galețchi"	05.10.20	O. Penina
4.	Inferential statistics. Basic steps of hypothesis testing. Parametric and non-parametric tests	8.00-9.40	Aula "Petru Galețchi"	19.10.20	O. Penina
5.	Introduction to research methodology. Case series and case-control studies	8.00-9.40	Aula "Petru Galețchi"	02.11.20	E. Raevschi
6.	Overview of cohort and case control study designs	8.00-9.40	Aula "Petru Galețchi"	16.11.20	E. Raevschi
7.	Overview of Clinical Trial Studies.	8.00-9.40	Aula "Petru Galețchi"	30.11.20	E. Raevschi
8.	Presentation of research findings. Plagiarism and scientific research.	8.00-9.40	Aula "Petru Galețchi"	14.12.20	O. Penina

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Proces verbal nr. 1 din 1 septembrie 2020

**Practical class schedule**  
**"Biostatistics and Research Methodology"**  
Medicine nr. II Faculty, II<sup>nd</sup> year,  
2020-2021 (semester III)

Day	Time	Group	Room	Professor
Marti	9.00-11.15	1950	211	Raevschi E.
		1951	212	Penina O.
	12.30-14.45	1959	209	Obreja G.
Miercuri	12.30-14.45	1952	211	Raevschi E.
		1953	212	Penina O.
Joi	9.00-11.15	1954	211	Raevschi E.
		1955	212	Penina O.
		1958	209	Obreja G.
Vineri	8.00-10.15	1956	212	Penina O.
		1957	209	Obreja G.

Şef de studii (responsabil instruire în limba engleză)  
Dr.șt.med., conf. univ.

  
Olga PENINA