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## **Social Medicine and Medical Ethics**

### **(Dental medicine, II-year students)**

### **Conspectus for the semester exam**

Approved by:

Head of the Department /Signature/

Prof. Rumen Stefanov, MD, PhD

1. Social medicine as a science - nature, historical overview, terminologies, structure, subject and functions.
2. Methodology of social medicine - classical methods, new modern methods.
3. Methodology of scientific research. Types of scientific research. Elements.
4. Ethics and morality - functions of morality. Morality. Standards of moral medical norms. Personal moral-psychological self-assessment.
5. Basic ethical principles in scientific research and medical profession.
6. Behavioral Medicine. Verbal and non-verbal communication.
7. Models of dentist-patient behavior.
8. Culture of communication. Types of behaviour; definition of good medical practice.
9. Culture - basic components. Culture of the written and verbal communication.
10. Culture - basic components. Culture of appearance. Physiognomy.
11. Basic principles of communication (with team members, patients, colleagues, community organisations) that the dentist must observe.
12. Fear and dentophobia.
13. Sources of stress in dental practice. Burnout syndrome.
14. Definition of biostatistics. Research programme and plan. Types of variables and scales of measurement.
15. Population and sample. Random sample. Representative sample. Random and systematic error. Sampling methods.
16. Direct standardization.
17. Frequency distribution. Data grouping methods. Graphical summaries.

18. Indicators for central tendency – advantages and disadvantages. Indicators for spread – advantages and disadvantages.
19. Normal distribution. Three-Sigma Limits rule.
20. Left- and right-skewed distribution. Check for normality.
21. Descriptive and inferential statistics. Estimation of population parameters. Confidence interval. Standard Error. Sample size calculation.
22. Null, alternative and working hypothesis. P-value. Level of significance. Power. Type I and II errors.
23. Parametric tests. Selection of hypothesis test. Student's t-tests
24. Non-parametric tests. Selection of hypothesis test. Chi-square test.
25. Correlation analysis. Correlation coefficient.
26. Regression analysis. Coefficient of determination. Types of regression models.

### **Recommended literature**

1. Lecture course in Social medicine and Medical Ethics
2. Practical classes in Social medicine and Medical Ethics
3. Stefanov R. Social medicine: Training approaches and models, 2006.
4. Bioethics topics – University of Washington School of Medicine, 2010, <https://depts.washington.edu/bioethx/topics/>.
5. Rule J, Veatch R. Ethical questions in dentistry. Quintessence Publishing Co, Inc. 2004.
6. Motulsky H. Essential biostatistics: a nonmathematical approach. Oxford University Press; 2016.
7. Bowers D. Medical statistics from scratch: an introduction for health professionals. Wiley; 2020.

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