STATISTICS IS IN PRACTICE OF DOCTOR

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The activities of doctors of various specialties are invariably linked to the accounting, development and analysis of statistical materials. The ability to generalize, analyze the information received in everyday medical practice allows to approach the decision of clinical and organizational problems at a qualitative level. In addition, a doctor often has to conduct scientific statistical research himself, so studying the statistical method in the preparation of doctors is very important in the system of higher medical education. Statistical methods in medicine began to be used from the 30s of the XX century, and today they are leading in medicine. Statistical methods give an opportunity to quantify the health indicators of the population; enable the analysis of the activity of health care institutions; show the influence of certain factors on the health of the population, determine the effectiveness of the treatment, health measures; allow to assess the dynamics of health indicators and forecasting; necessary for the development of norms and standards for health care. Today in the world there is a transition from the «impressionistic» medicine, which is based on the impression of medicine, to medicine, based on evidence of «evidence-based medicine». The main principle of evidence-based medicine is that each clinical decision must be based on scientific facts that are statistically proved on a large representative group of patients; no new medical technology (new method of treatment, diagnosis, prevention) cannot be recognized without mandatory testing in conditions of randomized controlled trials. Thus, the basic methods of evidence-based medicine include a statistical analysis, the results of which researchers rely on in their conclusions.

Statistical data processing is required for medical science and practice. Insufficient «statistical literacy» of a modern physician is detrimental to his professional activities. Each physician should provide a comprehensive assessment of their activities. Only the appropriate level of knowledge will be the basis for reassessing the significance and recognizing the need for a doctor’s statistics.

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