

South Kazakhstan State Pharmaceutical Academy

Course Statistical Analysis in the Public Healthcare

Department of medical statistics of the hospital.



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Introduction

Statistics is a form of mathematical analysis that uses quantified models, representations and synopses for a given set of experimental data or real-life studies. Statistics studies methodologies to gather, review, analyze and draw conclusions from data.

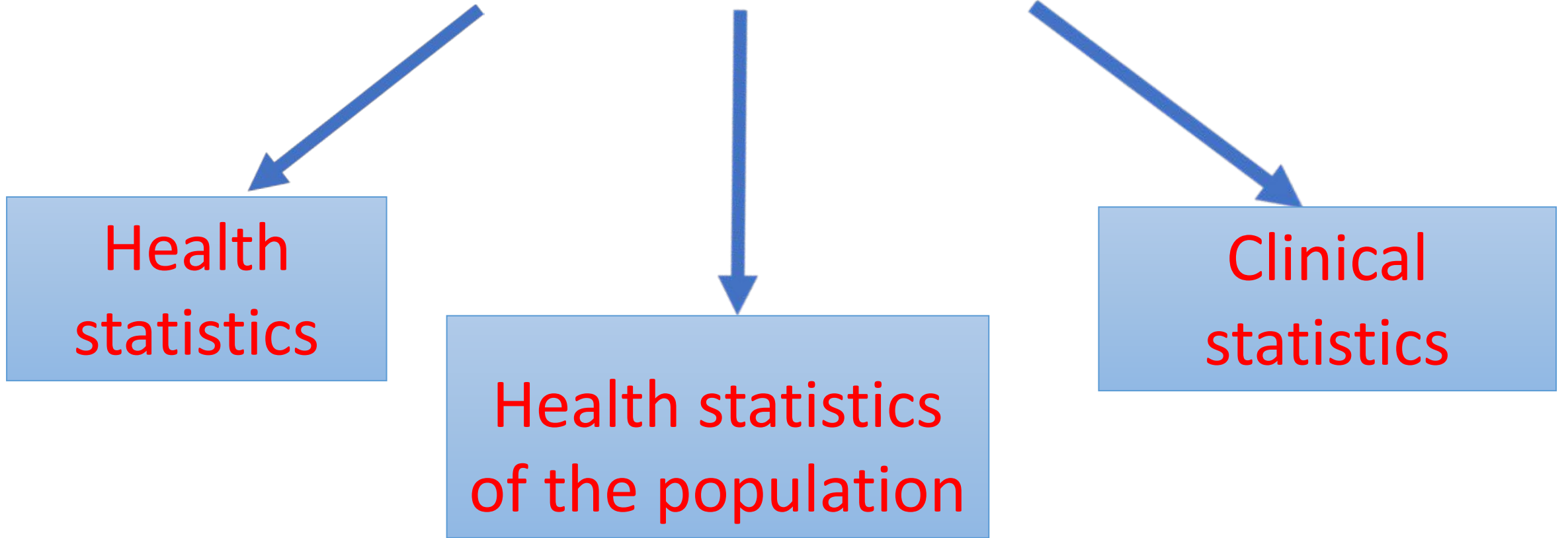


Medical statistics

Medical statistics - Studying the quantitative assessment of phenomena and processes related to medicine, hygiene and health.



There are 3 sections of medical statistics:



Health statistics of the population

Health statistics of the population - studies the health status of the population as a whole or of its individual groups (through the collection and statistical analysis of data on the number and composition of the population).



Health statistics of the population

Health statistics - resolves the collection, processing and analysis of information on health care networks and personnel (about major doctors, middle and junior medical personnel, their distribution by specialty, length of service, retraining).



Clinical statistics

Clinical statistics are the use of statistical methods in the treatment of clinical, experimental and laboratory results.



Department of Medical Statistics

The Department of Medical Statistics is a medical information center, which receives daily information on patients admitted, morbidity and mortality.



The tasks of the Department of Medical Statistics are:

- ✓ Study of the health of the population, analysis of quantitative characteristics of public health.
- ✓ Identification of links between health indicators and various factors of the natural and social environment, assessing the impact of these factors on the health levels of the population
- ✓ Analysis of the activities of medical and preventive institutions
- ✓ Assessment of the effectiveness (medical, social, economic) of ongoing therapeutic, preventive, antiepidemic measures and public health in general.

- ✓ Analyzes the state of vulnerabilities and mortality of the population as a whole and its individual contingents, qualitative indicators of the polyclinic service and hospitals using state and industry reporting processed in the Office, materials of state statistics bodies.
- ✓ Conducts analysis of processed materials, compiles and publishes collections of basic indicators of the health status of the population and the activities of health facilities of the republic.

The main task of the medical statistics is to obtain reliable statistical data. Daily in all hospitals in the country, as of 8:00 am, there is a recount of patients who are on inpatient treatment.



The Department of Medical Statistics .

The Department of Medical Statistics is a structural unit of the hospital. The main goal of the department of medical statistics is the timely, reliable and high-quality statistical information on the production of medical services. The Department of Medical Statistics assists hospitals in all structural divisions.

Modern applications of statistics to medicine are highly developed. A look at almost any medical journal reveals that a substantial proportion of medical research papers employ statistical techniques. Large numbers of statisticians are employed in medical research establishments, particularly in the pharmaceutical companies and the medical schools, and medical statistics continues to be the most buoyant area for statistical recruitment

The number of hospitalized patients allows you to find out the composition of patients, accounting economic damage in production, the account of non-epidemic diseases (cancer, tuberculosis, diabetes mellitus)



The use of processing software for accounting and reporting allows you to quickly obtain analytical information about the activities of hospitals and develop methods to improve the effectiveness of medical care.



- The Cabinet of Medical Statistics is the centralized medical information center of the institution, where information is received every day on patients who have been admitted and discharged, morbidity, fertility and mortality of patients, attendance of patients of doctors in the polyclinic and other medical information.

Conclusion

The main task of medical statistics is to obtain reliable statistical data and provide statistical information to all structural units of the institution.



Resources

- <http://www.fraserhealth.ca>
- Wilcox, Rand R. - BASIC STATISTICS - Understanding Conventional Methods and Modern Insights, Oxford University Press, 2009