

## COMPARATIVE ANALYSIS OF MORBIDITY AND MORTALITY AT VARIOUS LEVELS

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*The aim of the research is to analyze the morbidity of the population by disease classes, by sex and age groups and mortality by cause of death classes, and to construct a forecast of population mortality at the macro and micro levels.*

*Scientific novelty lies in constructing a model for predicting mortality rates, taking into account the cyclicities contained in their time series. An information database on fertility and mortality indicators for 1927-2016 was compiled.*

*To solve these problems, we used the following methods for studying the time series of birth and death rates:*

- *analysis of the dynamic properties of the time series of demographic indicators was carried out using mathematical and statistical methods;*
- *analysis of the trend resistance of time series of demographic indicators was carried out by the method of analysis of their fractal properties;*
- *studies of the presence in the time series of indicators of fertility and mortality of cyclic components, the allocation of these components was carried out by the method of phase portraits;*
- *to predict the time series of birth and death rates, a model of their dynamics was built taking into account the cyclicities contained in them.*

*The article presents the results of the forecast of mortality in Russia up to 2035, an analysis of the morbidity of the population by disease classes, by sex and age groups, and mortality by classes of causes of death.*

*A comparative classification of mortality for the main causes of death in the Russian Federation and the KBR with a global level is carried out.*

**Keywords:** morbidity of population, classes of diseases, mortality of population by classes of causes of death, forecasting, quality of health care system, socio-economic policy.

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