

ABSTRACT

The thesis performed on 70 sheets, it contains one application and a list of references to sources used 20 names. The paper shows 17 figures and one table.

The aim of this thesis is to create mathematical and software prediction and prevention of SARS among the population of Ukraine, will build a model of the spread of SARS, thereby reducing the number of related deaths.

Modeling the spread of SARS can be used to study how different spend levels vaccination can be used to prevent the spread of disease, thus reducing the total number of deaths. In addition, the modeled flu could conduct a study of how different levels of implementation of quarantine and vaccination may also help prevent the spread of influenza and, consequently, reducing complications and the number of SARS deaths.

Keywords: SARS, forecasting vaccine disease epidemic.