ABSTRACT

The thesis is presented in 95 pages. It contains 3 appendixes and bibliography of 5 references. 24 figures and 7 tables are given in the thesis.

The goal of this thesis is to collect and process the initial data for choosing the optimal strategy for treatment of infectious human diseases using the approach of consideration determining approach treatment strategy considering diagnostic tests.

The «cost disease» method was used for solving the problem of determining the optimal strategy and it was presented by decision making tree.

There was designed and implemented software module to determine the optimal strategy considering diagnostic tests. A module test done.

Keywords: pharmacoeconomic analysis, decision tree, the cost of the disease, diagnostic test, rotavirus infection.