

Decision Support Analysis in Food-Borne Epidemics*

Tadeusz NOWICKI, Paweł PIECZONKA and Michał SOBOLEWSKI

Faculty of Cybernetics, Military University of Technology,
00-908 Warsaw, Kaliskiego 2 Street, Poland

Correspondence should be addressed to: Tadeusz NOWICKI; tadeusz.nowicki@wat.edu.pl

* Presented at the 42nd IBIMA International Conference, 22-23 November 2023, Seville, Spain

Abstract

This paper shows the modeling and analysis of processes associated with the spread of the epidemic of food-borne diseases. The aim of this study was to show how to test the characteristics of the processes associated with the spread of the epidemic of food-borne diseases. Using formal models and methods the epidemic of food-borne diseases is investigated. The activities of sanitary inspection are considered. It is shown how to obtain various characteristics related to operations of inspection operations during the epidemic of food-borne diseases. The result of the work are models of processes related to the activities of sanitary inspection during the epidemic of food-borne diseases. This allows analyzing the activities of sanitary inspection in preventing the spread of food-borne illness. Models are also formal description of the activities of sanitary inspection.

Keywords: epidemics of foodborne diseases, patient interviews, objects inspections, scheduling problem, cluster analysis