CsCov19

RESEARCH ON SOLUTIONS FOR MULTI-DIMENSIONAL RISK ASSESSMENT OF SOME RESPIRATORY DISEASES: APPLICATION FOR ACUTE RESPIRATORY INFECTIONS CAUSED BY NEW STRAINS OF CORONA VIRUS (COVID-19) IN VIETNAM

Project key information

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IRD budget: 0K€; Total budget: 271.000 €

Partner institutions

UMMISCO Vietnam, Thuyloi University, Ministry of Health, Hanoi University of Science and Technology, DTT Technology Co., Ministry of Information and Communications, Bach Mai Hospital, IEG Educational Development Fund, University of Technology, Can Tho University, Hanoi Medical University, Goodlife Solutions

Context

Some diseases that are spread through respiratory droplets such as influenza, measles, tuberculosis, and COVID-19 are often contagious, which can lead to rapid outbreaks in the community and a high risk of death. Influenza is a serious global health threat affecting all countries: every year, an estimated 1 billion infections, 3-5 million severe cases, and 290 000-650 000 deaths are attributed to influenza. respiratory infections associated with influenza worldwide. Tuberculosis is the second leading cause of death among infectious diseases with about 1.2 million deaths.

In Vietnam, the number of flu cases tends to increase and become complicated due to the influence of countries in the region with many different strains of influenza in recent years.
Despite different epidemiological characteristics, the four diseases above all share the same route of infection through the respiratory tract, the causative agent of which attacks the lungs and airways, which can become a community-wide infectious disease.

Objectives

Building an integrated platform for multi-dimensional risk assessment for multiple risk groups of a number of respiratory diseases. Specific application for acute respiratory infections caused by new strains of Corona virus (COVID-19) in Vietnam.
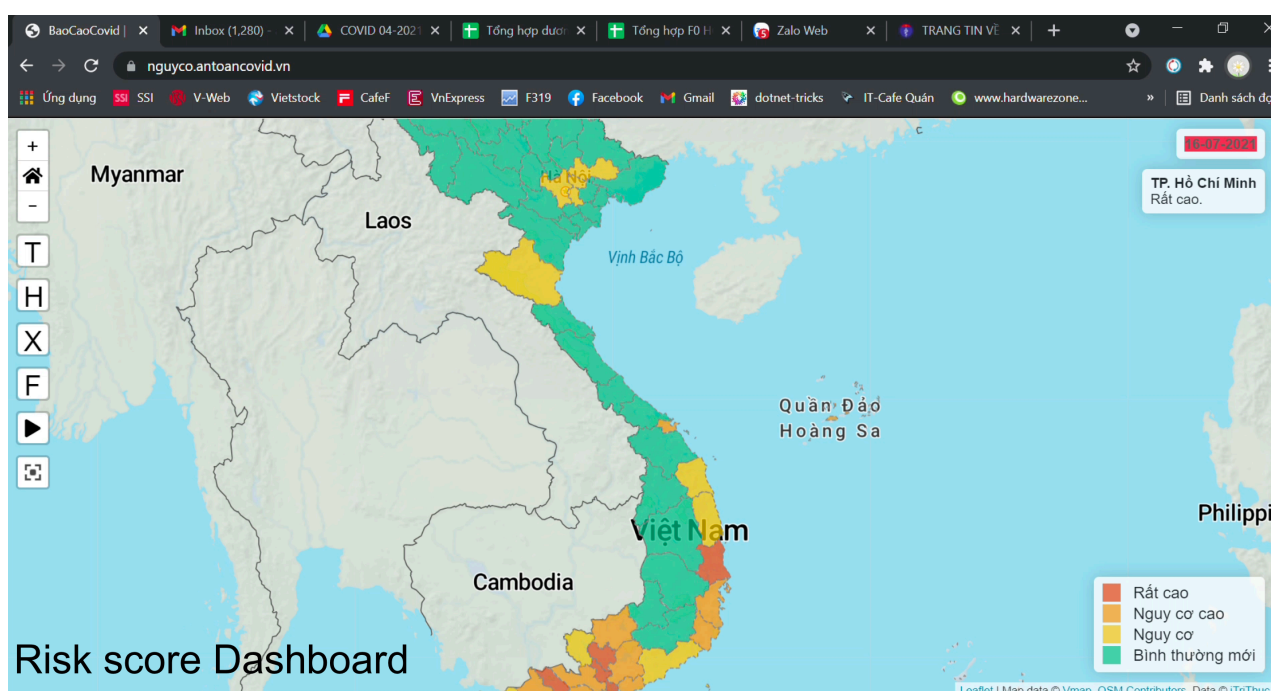
Organisation and expected results

+ Building a foundation of computational modeling solutions and software solutions for assessing multidimensional risk indexes of Influenza, Measles, Tuberculosis and COVID-19 diseases
+ Applying an integrated solution to the case of COVID-19 in Vietnam
+ Completing a comprehensive risk assessment solution for the COVID-19 epidemic in Vietnam
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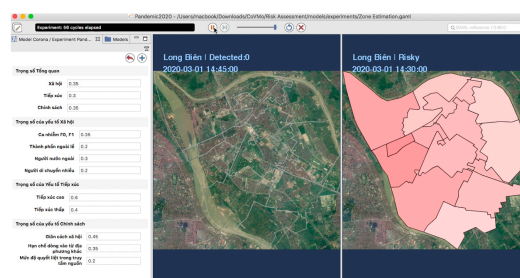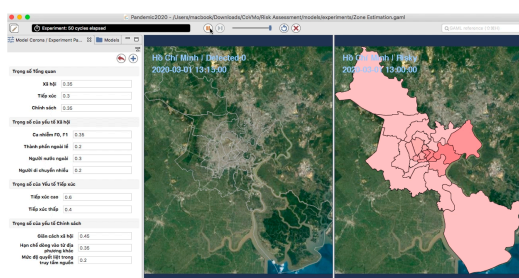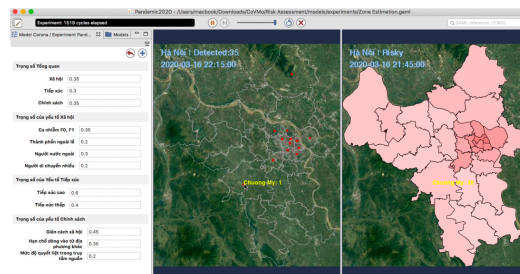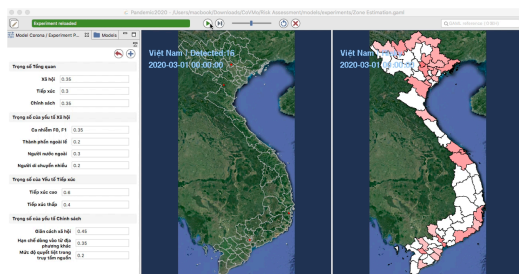
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