

Influenza is the most common viral diseases. Every year takes place in epidemics that affect Czech Republic in winter. The cause of influenza viruses from the group Orthomyxovirů in which there are three types designated as A, B and C.

As a result of an influenza pandemic that struck humanity in 1918 , the disease until the discovery of AIDS has become the most researched viral diseases . sought the creation of an international network of laboratories and offices to monitor changes in the virus and its distribution in the population in order to predict epidemics and pandemics and prepare for them. In collaboration involved scientists, practitioners, virology , epidemiology , pharmaceutical companies , veterinarians and leading healthcare professionals . Despite all the efforts and lessons learned are still many aspects of this unexplained illness or are only partially elucidated . Authorities agree that the next pandemic will come probably in the next decade . it is therefore need to take all measures that would mitigate its consequences to 1918 tragedy does not happen again . The greatest threat to the emergence of pandemic there is a strain of avian influenza virus H5N1. In 2006 he received a approved Pandemic Plan Czech Republic, which is based on current recommendations of WHO and the European Union for national pandemic plans.

This paper summarizes the current knowledge in the field of influenza , bird flu , pandemic , pandemic planning and prevention options .