Difference between influenza and coronavirus.

Pasteur Louis Robert*

Department of Microbiology, Al Omar-Massachus University, Oshawa, Ontario, Canada

Abstract

Influenza and Coronavirus are two types of viruses; they are RNA viruses that are enveloped and obligate parasites that replicate inside a specific host organism. Both attack the respiratory system of human beings and show similar symptoms. Coronavirus infection is more dangerous than the influenza virus infection. Usually all viruses are infectious agents. Almost all types of living organism are affected by the viruses and cause diseases. The crucial difference between influenza and coronavirus is, Influenza virus is a negative-sense single-stranded RNA virus that causes seasonal flu epidemics each year; while coronavirus is positive-sense single-stranded RNA virus that causes health illnesses ranging from pneumonia and common cold to severe Middle East Respiratory Syndrome (MERS) and Severe Acute Respiratory Syndrome (SARS).

Keywords Influenza, Coronavirus, RNA, SARS.

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Description

Influenza

Influenza virus also called as flu virus whereas; this is a singlestranded RNA virus belongs to the viral family Orthomyxoviridae. The infectious disease caused by influenza virus is called as influenza invertebrates. The most common symptoms of influenza infection include runny nose, high fever, muscle and joint pain, sore throat, coughing, headache, and feeling of tiredness. This virus is spread through air from sneezing and coughing [1-2]. It also spread by touching the contaminated objects and then touching the mouth, eyes and nose. Disease starts showing its symptoms two days after exposure to the influenza virus. Then it last for not more than a week [3]. In most human beings, the infection settles itself. But in certain human beings, especially in immune compromised human beings, adults aged above 65, and, young children aged below 5, it last for several weeks and can cause severe complications. They are four types of influenza viruses such as Influenza virus Α. Influenza virus В. Influenza virus C, and Influenza virus D. Among the above four types of viruses, only three types infect people [4]. Influenza virus A is the major virulent human which causes H1N1, H2N2, etc. The spread pathogen infection can be prevented by, wearing masks, of vaccination and frequent hand washing.

Coronavirus

Large family of enveloped viruses with helical-shaped nucleo capsids is called as the Coronavirus, to this virus family the name 'corona' was given because on their surface they have crown-like projections on their surface. The respiratory tracts of mammals are infected by these viruses. Coronaviruses causes common illnesses ranging from pneumonia and common cold to the Middle East respiratory syndrome (MERS)

and severe acute respiratory syndrome (SARS). The guts of mammals are affected by this virus [5]. The usual symptoms of coronavirus infection are a cough, runny nose, possibly a headache and sore throat. Human beings of all ages are receptive to this virus. There are different types of coronavirus. In general coronavirus can be spread from animals to humans. When people immune system is weak, this virus spreads from person to person through droplets. Therefore, shaking hands or touching with an infected person or making contact with the objects having the virus can cause the transmit of the virus [6]. Therefore, in order to avoid the spreading of this virus, it is necessary to take safety precautions such as washing your hands, wearing surgical face masks, avoiding close contact with infected people, using soap for at least 20 seconds.

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*Correspondence to

Pasteur Louis Robert Department of Microbiology Al Omar-Massachus University Oshawa, Ontario Canada E-mail: Robert.Pl@hotmail.com