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Emergency Medicine: Open Access

Perspective

Acute Infection on the Effect of Immune System

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DESCRIPTION

Microbes that live inside a host for a brief length of time, usually less than six months are referred to as acute infections. But a wealth of evidence suggests that acute infections have long-lasting impacts, predisposing a person to the later onset of chronic diseases. The immune system adapts both acutely and chronically in response to inflammation and injury in response to cues from the microenvironment. Here, the therapeutic value of adenosine's immune system impacts is discussed.

The immune system and microorganisms of human work together maintain homeostasis in body. The immune response would then be free to focus on acute infections, in principle. Anecdotal evidence from doctors and patients suggests that the MP works in this way. There haven't been any cases of Acquired Immunodeficiency Syndrome (AIDS) or tuberculosis among MucoPolysaccharidoses (MP) patients to date.

Treatment

If a patient suddenly develops several illnesses at once, it is possible to tell whether or not they have an acute infection. These diseases have a limited number of symptoms that only persist a time. During this phase, the body produces infectious virions and the immune system clears out other illnesses. Pathogens as the rhinovirus and influenza virus frequently cause such acute forms of illnesses. Among acute infections, hemorrhagic fever from Ebola is one example. This illness is really serious. A common example of an infection with virtually no symptoms is poliovirus infection. Incubation periods typically precede the onset of acute infections. The host immune system's embedded defense mechanism starts to function during this period of genome multiplication. The cytokines that the infection had produced in its early stages are what because symptoms like fever, malaise, pains, nausea, and ache.

Some incubation stages can only last for one day. Infectious diseases like the flu and rhinovirus are examples. This recommends that the symptoms were caused quite nearby the infection's point of entrance. The causes of the global spread of epidemics are acute bacterial infections or acute viral infections. There are still no antiviral classes of medications available for many viral disorders brought on by acute infections.

Acute viral infections

Acute viral infections that strike instantly and either resolve quickly or kill the patient are known as acute viral infections. A chronic infection, like HIV, on the other hand, lasts a person's entire life. The intense contaminations start rapidly; many acute viral infections pose a threat to one's life and some worsen rapidly rather than improve. Three examples of acute viral infections will be discussed that is: flu, yellow fever, and Ebola.

Probably have the most experience with influenza, or the flu, out of all our examples. From being infected to experiencing symptoms, the average incubation period is one to four days. Most people start to feel achy and have a sore throat after two days. There is also a fever. They might have mucus running down their nose, a sign that their body is trying to get rid of the virus. During this illness, also experience light coughing, extreme tiredness, and headaches.

Most people recover from the flu on their own within one to two weeks. Rest and fluids are prescribed by doctors. To alleviate symptoms, patients also take over-the-counter medications like Tylenol for pain or cough syrup. Even though this does not speed up recovery, it does make life easier to manage. Science does not support the widespread practice of taking large quantities of vitamin C to treat or prevent the flu. The extra vitamin C is excreted in the urine because the body does not require it.

Some patients including the elderly, children, and pregnant women, are at risk for severe flu complications. Doctors may prescribe antiviral medications, which specifically kill viruses, if the flu persists or symptoms persist. These medications should only be used in the worst cases because viruses quickly change to avoid them after multiple rounds of replication.

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Received: 06-Feb-2023, Manuscript No. EGM-23-21224; **Editor assigned:** 09-Feb-2023, Pre QC No. EGM-23-21224 (PQ); **Reviewed:** 23-Feb-2023, QC No. EGM-23-21224; **Revised:** 02-Mar-2023, Manuscript No. EGM-23-21224 (R); **Published:** 09-Mar-2023, DOI: 10.4172/2165-7548.23.13.275

Citation: Santana AR (2023) Acute Infection on the Effect of Immune System. Emergency Med.13:275