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Opinion Article

Understanding respiratory syncytial virus: symptoms and impact on respiratory health

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DESCRIPTION

Respiratory Syncytial Virus (RSV) is a highly contagious virus that affects the respiratory system. It is a major cause of lower respiratory tract infections in young children and infants, with symptoms ranging from mild cold-like symptoms to severe pneumonia. RSV is responsible for over 60,000 deaths annually worldwide in children under 5 years old, making it a significant public health concern.

RSV is a member of the family of viruses known as Paramyxoviridae. It is an enveloped virus with a single-stranded RNA genome that encodes 11 proteins. There are two main types of RSV, designated as A and B, with type A being more common and associated with more severe infections. RSV is highly infectious and can spread through the air *via* droplets from coughs or sneezes, as well as from contact with contaminated surfaces.

Symptoms of RSV infection can vary depending on the age of the person infected. Infants and young children may experience a fever, cough, runny nose, and wheezing, while older children and adults may experience only cold-like symptoms or no symptoms at all. In severe cases, RSV can cause pneumonia, bronchiolitis, and respiratory failure, particularly in individuals with weakened immune systems or underlying medical conditions.

Diagnosis of RSV infection is typically done through laboratory testing of respiratory secretions, such as nasal swabs or bronchoalveolar lavage fluid. Treatment for RSV is mainly supportive, with measures such as hydration and oxygen therapy to manage symptoms. In severe cases, antiviral medications such as ribavirin may be used, although their effectiveness is limited.

Prevention of RSV infection is the key, especially in populations at high risk for severe disease, such as infants and young children, older adults, and individuals with underlying medical conditions. Good hygiene practices, such as frequent hand washing and avoiding close contact with individuals who are sick, can help prevent the spread of RSV. There is also a vaccine available for certain populations, such as premature infants and infants with certain medical conditions, which can reduce the risk of severe RSV disease.

The symptoms of Respiratory Syncytial Virus (RSV) can vary depending on the age of the person infected and the severity of the infection. Following are the symptoms in infants and young children.

Symptoms

- Runny or stuffy nose
- Cough
- Sneezing
- Fever
- Irritability
- · Loss of appetite

Difficulty breathing, which may include rapid breathing, wheezing, or gasping for breath and in severe cases, RSV can also cause pneumonia and bronchiolitis, which may result in the following symptoms.

- Severe coughing
- Blue or purple coloration of the skin (due to lack of oxygen)
- Difficulty breathing, which may include rapid breathing, shallow breathing, or grunting
- High fever
- · Severe lethargy or irritability
- Dehydration
- Seizures or convulsions

In older children and adults, RSV may cause symptoms similar to a common cold, such as runny or stuffy nose, cough, sore throat, headache, and fever. However, some individuals may not experience any symptoms at all. It's important to note that RSV symptoms can overlap with those of other respiratory infections, so laboratory testing may be necessary to confirm a diagnosis of RSV infection.

Respiratory syncytial virus is a highly contagious virus that can cause severe respiratory infections, particularly in young children and infants. While treatment is mainly supportive, prevention through good hygiene practices and vaccination is the key to reducing the spread and impact of RSV.

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