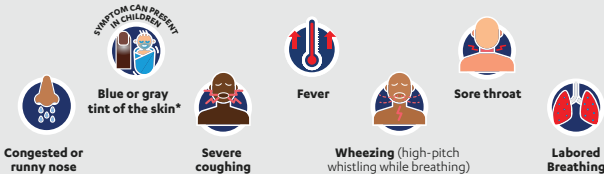


# What are the symptoms of RSV?

It is important to be **aware of the potential symptoms of RSV infection**. In very young infants with RSV, the only symptoms may be irritability, decreased activity and breathing difficulties.<sup>1</sup>

**Additional RSV symptoms for adults and children may include:**



Because many symptoms of RSV are similar to other respiratory infections, **testing for RSV is necessary for diagnosis**.<sup>2</sup>

## How is RSV managed?

Besides a preventive injectable medicine available for premature and high-risk infants and children, there is **no preventive vaccine or broadly effective treatment currently available for RSV**; therefore, there is a critical need for new solutions to reduce the burden of RSV.

There are **several ways we can help prevent the spread of RSV** and other respiratory infections, including:<sup>3</sup>



\*In children with a lighter skin tone, skin around the mouth or nails may have bluish tint. In children with a darker skin tone, skin may have a gray or whitish tint.

**If you or a loved one are feeling unwell and showing any symptoms of RSV, please speak to your doctor.**

<sup>1</sup> CDC. RSV in infants and young children. Available at: <https://www.cdc.gov/rsv/high-risk/infants-young-children.html>. Last accessed: October 2021.

<sup>2</sup> Respiratory syncytial virus (RSV). Available at: <https://www.mayoclinic.org/diseases-conditions/respiratory-syncytial-virus/symptoms-causes/syc-20353098>. Last accessed: October 2021.

<sup>3</sup> CDC. RSV Prevention. Available at: <https://www.cdc.gov/rsv/about/prevention.html>. Last accessed: October 2021.

<sup>4</sup> CDC. RSV Symptoms and Care. Available at: <https://www.cdc.gov/rsv/about/symptoms.html>. Last accessed: October 2021.

<sup>5</sup> CDC. RSV in Older Adults and Adults with Chronic Medical Conditions. Available at: <https://www.cdc.gov/rsv/high-risk/older-adults.html>. Last accessed: October 2021.

<sup>6</sup> Coultas JA, Smyth R, Openshaw PJ. Respiratory syncytial virus (RSV): a scourge from infancy to old age. Thorax. 2019;74:986-993.

<sup>7</sup> Hurley LP et al. Primary care physicians' perspectives on respiratory syncytial virus (RSV) disease in adults and a potential RSV vaccine for adults. Vaccine. 2019;37(4):565-570.

<sup>8</sup> Falsey AR et al. Respiratory syncytial virus infection in elderly and high-risk adults. N Engl J Med. 2005;352(17):1749-1759.

<sup>9</sup> National Institute of Allergy and Infectious Diseases. Respiratory syncytial virus (RSV). Available at: <https://www.niaid.nih.gov/diseases-conditions/respiratory-syncytial-virus-rsv>. Last accessed: October 2021.

<sup>10</sup> Protect Against Respiratory Syncytial Virus. Available at: <https://www.cdc.gov/features/rsv/index.html>. Last accessed: October 2021.

<sup>11</sup> Respiratory Infections. Available at: <https://www.janssen.com/infectious-diseases-and-vaccines/respiratory-infections>. Last accessed: October 2021.

<sup>12</sup> Hurley LP, Bridges CB, Harpaz R, et al. U.S. Physicians' Perspective of Adult Vaccine Delivery. Ann Intern Med. 2016;164(3):161.

<sup>13</sup> Obando-Pacheco P et al. Respiratory Syncytial Virus Seasonality: A Global Overview. The Journal of Infectious Diseases. 2018;217(9):1356-1364.

<sup>14</sup> Increased Interseasonal Respiratory Syncytial Virus (RSV) Activity in Parts of the Southern United States. Available at: <https://emergency.cdc.gov/han/2021/han00443.asp>. Last accessed: October 2021.

<sup>15</sup> Foley DA, Yeoh DK, Minney-Smith CA, et al. The Interseasonal Resurgence of Respiratory Syncytial Virus in Australian Children Following the Reduction of Coronavirus Disease 2019-Related Public Health Measures. Clin Infect Dis. 2021 Feb 17;ciaa1906. doi: 10.1093/cid/ciaa1906. Epub ahead of print. PMID: 33594407; PMCID: PMC7929151.

<sup>16</sup> Virus Watch, Week Ending 30 May 2021. Government of Western Australia, Department of Health. Last accessed: October 2021.

<sup>17</sup> Weekly Respiratory Pathogens Surveillance Report, South Africa, Week 21, 2021. National Institute for Communicable Diseases, Division of the National Health Laboratory Service. Last accessed: October 2021.

<sup>18</sup> Paediatric respiratory diseases. Available at: <https://www.erswhitebook.org/chapters/paediatric-respiratory-diseases/>. Last accessed: October 2021.

<sup>19</sup> RESCEU Birth Cohort Study. Data on file.

<sup>20</sup> Hall CB, Weinberg GA, Iwane MK, et al. The Burden of Respiratory Syncytial Virus Infection in Young Children. N Engl J Med. 2009;360:588-598.

<sup>21</sup> RSV in Infants and Young Children. Available at: <https://www.cdc.gov/rsv/high-risk/infants-young-children.html>. Last accessed: October 2021.

<sup>22</sup> Shi T, McAllister DA, O'Brien KL, et al. Global, regional, and national disease burden estimates of acute lower respiratory infections due to respiratory syncytial virus in young children in 2015: a systematic review and modelling study. Lancet. 2017;390(10098):946-958.

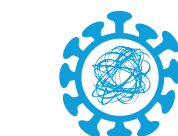
<sup>23</sup> Jain S, Williams DJ, Arnold SR, et al. Community-Acquired Pneumonia Requiring Hospitalization among U.S. Children. N Engl J Med. 2015;372:835-845.

<sup>24</sup> Sigurs N, et al. Severe respiratory syncytial virus bronchiolitis in infancy and asthma and allergy at age 13. Am J Respir Crit Care Med. 2008;177(2):137-141.

<sup>25</sup> Learn about RSV in Infants and Young Children. Centers for Disease Control and Prevention. Available at: <https://www.cdc.gov/rsv/high-risk/infants-young-children.html>. Last accessed: October 2021.

<sup>26</sup> NHS website. Bronchiolitis.

NHS. UK. Available at: <https://www.nhs.uk/conditions/bronchiolitis/>. Last accessed: October 2021.



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# RSV

## Respiratory Syncytial Virus



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# What is the impact of RSV on **adults**?

Most people with RSV recover in one or two weeks. In some cases, however, RSV can cause serious complications.

For older adults or those with underlying health conditions – such as immunocompromised adults and adults with chronic lung and heart disease – RSV can lead to serious respiratory infections, including pneumonia.<sup>4,5,6</sup>

**RSV disproportionately impacts adults over 60 years and high-risk adults over 18 years**, who are more likely to develop a lower respiratory tract infection (LRTI).

- In a typical year, between 3-7% of older adults (≥60 years of age) and 4-10% of high-risk adults (≥18 years of age) experience RSV.<sup>7,8</sup>

**Severe RSV infection can also lead to life-threatening complications** including pneumonia, cardiovascular complications and the exacerbation of underlying conditions (e.g., COPD, asthma, congestive heart failure), which are associated with significant mortality.

# What is **RSV**?

RSV is a highly contagious seasonal respiratory virus, which affects an estimated 64 million children and adults around the world in a typical year.<sup>9</sup> The virus is also **one of the most common causes of acute respiratory infections** in young children, older adults, and those with underlying health conditions.<sup>10,11</sup>

Many individuals who are infected with RSV may not be properly diagnosed because the often mild, cold-like symptoms of **RSV can be difficult to distinguish from the flu** or other respiratory infections, such as COVID-19.<sup>12</sup> It's possible that co-infection can occur. Diagnosis can help inform the appropriate path to seeking treatment.

# How is RSV transmitted?

RSV is **spread through droplets** from a cough or sneeze, or by **touching a surface or object** that has the virus on it.

Typical seasonal epidemics occur from **September to May in the northern hemisphere**, and from **March to October in the southern hemisphere**.<sup>13</sup>

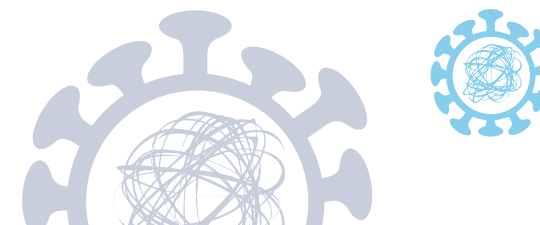
# What is the impact of RSV on **children**?

In a typical year, an estimated **33 million children under the age of 5 are infected with RSV** worldwide. In fact, RSV is **one of the main reasons that babies are hospitalized before their first birthday**.<sup>18</sup>

Up to **60 percent of all children with RSV infections require medical assistance**, with up to 10 percent of these children admitted to the hospital.<sup>19,20</sup>

For children with certain risk factors – such as premature birth, age of fewer than six months, or age of fewer than two years with chronic lung disease or congenital heart disease<sup>21</sup> – RSV can lead to serious respiratory infections, including bronchitis, bronchiolitis and pneumonia.<sup>6,22,23</sup>

Severe RSV-associated bronchiolitis in childhood is also a risk factor for the development of asthma.<sup>24</sup>



Because complications can be serious, up to **50 percent of high-risk adults** with symptomatic RSV infection **need to visit a doctor**.



While **atypical, inter-seasonal epidemics** are possible, such as recent summer outbreaks across the Southern United States (June 2021), South Africa (early 2021) and Australia (late 2020) related to the COVID-19 pandemic.<sup>14,15,16,17</sup>



Nearly all children have had **at least one RSV infection** by the age of 2.<sup>25,26</sup>

