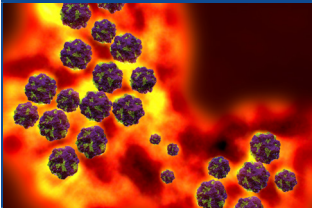


# Rhinovirus

## Overview














Rhinoviruses are the most frequent cause of the common cold and can be the main reason children are absent from school and adults miss work.<sup>1,2</sup> Infected persons can spread the virus to others when they cough or sneeze. Contaminated surfaces can also be a source of spread. There are many different types of rhinoviruses and while they usually occur year-round, they tend to rise in early fall and spring. This coincides with circulation of other respiratory viruses like Influenza and RSV.<sup>1</sup> In the U.S., on average, adults have 2–3 colds per year with one being caused by rhinovirus, while children have even more with at least 2 being caused by rhinovirus.<sup>1,2</sup> For people with weakened immune systems or underlying medical conditions, rhinovirus infections can result in severe illness requiring hospitalization.<sup>1</sup> Currently, there is no vaccine or specific treatment for rhinovirus infections.

## About the Pathogen & Infection Control Measures

<b>Infectious Agent (Pathogen)<sup>3</sup></b>	<b>Agent Type:</b> Virus <b>Taxonomy:</b> ▶ <b>Family:</b> <i>Picornaviridae</i> ▶ <b>Genus:</b> <i>Enterovirus</i> ▶ <b>Species:</b> A, B, C	<b>Synonym(s):</b> Common cold <b>Characteristics:</b> Non-enveloped virus
<b>Infectious Characteristics Definitions:</b> ▶ Incubation period—the time from exposure to infection with symptoms. ▶ Period of communicability—time when a pathogen can be transmitted from one person to another.	<b>Risk factors for severe illness:<sup>1</sup></b> <b>Incubation period:<sup>1</sup></b> <b>Period of communicability:<sup>4</sup></b> <b>Signs &amp; symptoms:<sup>1</sup></b> <b>Duration of illness:<sup>1</sup></b> <b>Severity of illness:<sup>1</sup></b>	Individuals with weakened immune systems, asthma, or other underlying medical conditions. 2 to 3 days 1–2 days before symptom onset and for up to 2 weeks afterward. The first 2–3 days after symptom onset is when the virus is most likely to spread. <b>Many people will have no symptoms. Those that do, experience symptoms that mirror other respiratory infections including:</b> ▶ Cough/Sneeze ▶ Nasal congestion/Runny nose ▶ Sore throat ▶ Headache/Body aches ▶ Low-grade Fever (rare in children older than 3 and adults) 7 days up to 2 weeks Most rhinovirus infections are typically mild, but they can cause severe illness including asthma worsening, middle ear infections, sinusitis, bronchitis, or pneumonia. For people with weakened immune systems or underlying medical conditions, rhinovirus infections can result in severe illness requiring hospitalization. <sup>1</sup>
<b>Mode(s) of Transmission<sup>1</sup></b> How the Infection Spreads	Contact and Droplet: Direct from person-person when an infected person coughs or sneezes and through close personal contact with an infected person, such as shaking hands or hugging. Indirect transmission can occur from contaminated surfaces.	
<b>Survival on Surfaces<sup>5</sup></b>	Up to 24 hours	
<b>Immunization/Prophylaxis/Treatment<sup>1</sup></b>	There is currently no vaccine, treatment, or medication to prevent or cure rhinoviruses.	
<b>Infection Control Measures</b>	<b>General Measures For All Spaces</b> (commercial buildings, K–12 schools, healthcare): <sup>1</sup> ▶ <b>Hand Hygiene:</b> Wash hands carefully and frequently with soap and water. Alcohol-based hand sanitizers are also effective. ▶ <b>Respiratory Hygiene/Cough Etiquette:</b> Cough or sneeze into elbows or a tissue. Avoid coughing or sneezing into hands, which are more likely to spread the flu virus through touch. Avoid touching your eyes, nose, and mouth. ▶ <b>Stay home.</b> Encourage those who are sick to stay home and limit contact with others. Develop non-punitive sick leave policies.	<b>Healthcare-Specific Measures:<sup>9</sup></b> ▶ <b>Isolation Precautions:</b> Place patient in single patient room if possible. Use Droplet + Standard for the duration of illness. Add Contact Precautions if copious moist secretions and close contact are likely to occur (e.g., young infants). ▶ <b>PPE:</b> Mask and eye protection. Other PPE as indicated per standard precautions. Gown if contact precautions are required. ▶ <b>Patient Transport:</b> Patient should wear a mask, if possible, and follow respiratory hygiene and cough etiquette and hand hygiene. ▶ <b>Linens:</b> Per routine. ▶ <b>Waste management:</b> Per routine.
<b>Cleaning &amp; Disinfection<sup>1</sup></b>	Ensure frequent cleaning and disinfecting of commonly touched surfaces that may be contaminated with the virus. Use EPA-registered disinfectants with a rhinovirus claim or another non-enveloped virus claim (e.g., norovirus, poliovirus, enterovirus-D68) <sup>7</sup>	

# Clorox Product Recommendations

The following CloroxPro cleaner-disinfectants can be used to effectively manage Rhinovirus on environmental surfaces and equipment.

Products for use against Rhinovirus	EPA Reg. No.	Rhinovirus contact time
<p><b>Clorox Clorox EcoClean Disinfecting Cleaner and Refill</b></p> <p><b>Item No. 60213</b> 32 fl. oz. Spray 9/case  <b>Item No. 60094</b> 128 fl. oz. Refill 4/case</p> 	67619-45	30 seconds
<p><b>CloroxPro EcoClean Disinfecting Cleaner Wipes</b></p> <p><b>Item No. 60605</b> 75 ct. Canister 6/case</p> 	67619-48	5 minutes
<p><b>CloroxPro Clorox Germicidal Bleach</b></p> <p><b>Item No. 30966</b> 121 fl. oz. Bottle 3/case</p> 	67619-32	5 minutes
<p><b>CloroxPro Clean-Up Disinfectant Cleaner with Bleach</b></p> <p><b>Item No. 35417</b> 32 fl. oz. Spray 9/case  <b>Item No. 35420</b> 128 fl. oz. Refill 4/case</p> 	67619-17	30 seconds
<p><b>CloroxPro Clorox Disinfecting Wipes</b></p> <p><b>Item No. 15949</b> 75 ct. Canister 6/case Fresh Scent  <b>Item No. 15948</b> 75 ct. Canister 6/case Lemon Scent  <b>Item No. 31547</b> 700 ct. Bucket 1/case Fresh Scent  <b>Item No. 31428</b> 700 ct. Bucket Refill 2/case Fresh Scent</p> 	67619-31	15 seconds
<p><b>CloroxPro Clorox Disinfecting Spray</b></p> <p><b>Item No. 38504</b> 19 fl. oz. Aerosol Spray 12/case</p> 	67619-21	30 seconds
<p><b>CloroxPro Clorox 4 in One Disinfectant &amp; Sanitizer</b></p> <p><b>Item No. 31043</b> 14 fl. oz. Aerosol Spray 12/case</p> 	67619-29	5 minutes
<p><b>Clorox Healthcare Bleach Germicidal Wipes</b></p> <p><b>Item No. 30577</b> 6" x 5" 150 ct. Canister 6/case  <b>Item No. 35309</b> 6.75" x 9" 70 ct. Canister 6/case  <b>Item No. 32621</b> 6.75" x 9" 100 ct. Softpack 9/case  <b>Item No. 31424</b> 12" x 12" 50 ct. Carton 6/case  <b>Item No. 30358</b> 12" x 12" 110 ct. Bucket 2/case  <b>Item No. 30359</b> 12" x 12" 110 ct. Bucket Refill 2/case</p> 	67619-12	1 minute
<p><b>Clorox Healthcare Bleach Germicidal Cleaners</b></p> <p><b>Item No. 30577</b> 32 fl. oz. Spray 6/case  <b>Item No. 68832</b> 32 fl. oz. Pull-Top 6/case  <b>Item No. 68978</b> 128 fl. oz. Refill 4/case</p> 	56392-7	1 minute
<p><b>Clorox Healthcare Hydrogen Peroxide Cleaner Disinfectant Wipes</b></p> <p><b>Item No. 30824</b> 6.75" x 9" 95 ct. Canister 6/case  <b>Item No. 30825</b> 6.75" x 5.75" 155 ct. Canister 6/case  <b>Item No. 30826</b> 12" x 11" 185 ct. Bucket 2/case  <b>Item No. 30827</b> 12" x 11" 185 ct. Bucket Refill 2/case</p> 	67619-25	1 minute
<p><b>Clorox Healthcare Fuzion Cleaner Disinfectant</b></p> <p><b>Item No. 31478</b> 32 fl. oz. Spray 9/case</p> 	67619-30	1 minute

## References:

1. CDC. About Rhinoviruses [Internet]. 2024 [cited 2024 Sept 4]. Available from: <https://www.cdc.gov/rhinoviruses/about>
2. CDC. About Common Cold [Internet]. 2024 [cited 2024 Sept 4]. Available from: <https://www.cdc.gov/common-cold/about/index.html>
3. International Committee on Taxonomy of Viruses (ICTV). Current ICTV Taxonomy Release (2022) [Internet]. [cited 2023 Jun 10]. Available from <https://ictv.global/taxonomy>
4. NHS. How long is someone contagious after a viral infection? [Internet]. [cited 2023 Jun 7]. Available from: <http://www.nhs.uk/common-health-questions/infections/how-long-is-someone-infectious-after-a-viral-infection/>
5. Wißmann, J. E., Kirchhoff, L., Brüggemann, Y., et al. (2021). Persistence of pathogens on inanimate surfaces: A narrative review. Microorganisms, 9(2), 343.
6. CDC. Isolation Precautions Guideline [Internet]. [cited 2024 Sept 3]. Available from <https://www.cdc.gov/infection-control/hcp/isolation-precautions/index.html>
7. CDC. Severe Respiratory Illness Associated with Rhinoviruses and/or Enteroviruses Including EV-D68-Multistate, 2022 [Internet]. [cited 2023 Jun 10]. Available from <https://emergency.cdc.gov/han/2022/han00474.asp>



For product resources and implementation tools, contact your Clorox sales representative, call 800-492-9729 or visit [www.CloroxPro.com](http://www.CloroxPro.com)

© 2024 Clorox Professional Products Company, 1221 Broadway, Oakland, CA 94612