

# Measles (Rubeola)

## Overview<sup>1,2</sup>














Measles, also known as Rubeola, is an acute viral respiratory illness. It is one of the most contagious human diseases—so contagious that up to 90% of people exposed who are not immune or vaccinated will become infected. It can lead to severe complications and death. Measles is spread by direct contact with respiratory secretions or by the airborne route when an infected person breathes, coughs, or sneezes. Measles infects the respiratory tract and then spreads throughout the body. Symptoms include high fever, cough, red watery eyes, runny nose, and a rash all over the body. Measles can affect anyone but is most common in children. Most cases in the U.S. occur among people who are not vaccinated against measles. Vaccination is the best way to prevent measles and spreading it to others.

## About the Pathogen & Infection Control Measures

<b>Infectious Agent (Pathogen)<sup>2</sup></b>	<b>Agent Type:</b> Virus <b>Synonym(s):</b> Measles, Rubeola	<b>Taxonomy:</b> ▶ <b>Family:</b> <i>Paramyxoviridae</i> ▶ <b>Genus:</b> <i>Morbillivirus</i> <b>Characteristics:</b> Single-stranded enveloped RNA virus
<b>Infectious Characteristics Definitions:</b> ▶ Infectious dose—number of organisms necessary to cause disease. ▶ R-naught (RO)—the number of people that an infected person can be expected to transmit that disease to (“spreadability”) ▶ Incubation period—the time from exposure to infection w/symptoms. ▶ Period of communicability—time when a pathogen can be transmitted from one person to another ▶ Mortality rate—the number of deaths due to a disease divided by the total population.	<b>Risk factors<sup>2</sup>:</b>	▶ Unvaccinated persons including infants under the age of 1 year and persons with compromised immune systems ▶ Infants/children <5 years ▶ Adults >20 years, including pregnant women
	<b>Infectious dose and R-naught (RO)<sup>2,3</sup></b>	90% of people exposed who are not immune or vaccinated will become infected. 9 in 10 susceptible persons who are exposed will contract measles. RO is 12–18.
	<b>Incubation period<sup>2</sup>:</b>	7–14 days
	<b>Period of communicability<sup>2</sup>:</b>	1 day before symptoms start and 4 days before to 4 days after the rash appear
	<b>Signs &amp; symptoms<sup>2</sup>:</b>	The symptoms appear 7–14 days after an exposure and include fever (as high as 105°F) and malaise, cough, runny nose, red watery eyes, and Koplik spots (cluster of white lesions on the inner cheek). Rash (see image above) develops 3–5 days after symptom onset. It usually begins on the face and spreads downward to the body.
	<b>Duration of illness<sup>2</sup>:</b>	2–3 weeks
<b>Reservoir<sup>4</sup></b> How the Infection Spreads	Infected persons; Touching one’s eyes, nose, or mouth after contact with an environmental surface contaminated with the infected persons respiratory secretions.	
<b>Mode(s) of Transmission<sup>2</sup></b> How the Infection Spreads	Airborne and contact with contaminated surfaces.	
<b>Survival Time on Surfaces<sup>4</sup></b>	Several hours	
<b>Immunization/Prophylaxis/Treatment<sup>2,4</sup></b>	There is no specific treatment – supportive care only. Preventative: CDC recommend 2 doses of the measles-mumps-rubella (MMR) vaccine which is ~97% effective at preventing measles.	
<b>Infection Control Measures<sup>2,5</sup></b>	<b>General Public Health Measures:</b> ▶ Vaccination (2 doses of MMR). ▶ Stay home if you have fever and/or rash ▶ Perform proper and frequent hand hygiene ▶ Practice respiratory hygiene/cough etiquette ▶ If exposed, self-monitor for signs and symptoms and adhere to local public health department recommendations (such as quarantine).	<b>Healthcare-Specific Measures:</b> ▶ <b>Isolation Precautions:</b> Placement in an airborne isolation room (e.g., negative pressure) with door close ▶ <b>PPE:</b> Respirator; other PPE per Standard Precautions. ▶ <b>Patient Transport:</b> Mask the patient ▶ <b>Linens:</b> Per routine ▶ <b>Waste management:</b> per routine ▶ <b>Other:</b> Keep patient separated from other patients (e.g., waiting room). Susceptible healthcare workers and visitors should not enter the room.
<b>Cleaning &amp; Disinfection<sup>1</sup></b>	Follow standard cleaning and disinfection procedures using an EPA-registered disinfectant effective against the measles virus. Pay special attention to frequently touched surfaces such as toys, doorknobs, tables, and counters. Delay room entry for cleaning for 2 hours to allow for sufficient air exchanges.	

## Clorox Product Recommendations

The following CloroxPro cleaner disinfectants are EPA-registered to kill Measles (Rubeola) virus on hard, non-porous surfaces.

Products for use against Measles				EPA Reg. No.	Measles Contact Time	
Healthcare Disinfectants						
<u>Clorox Healthcare Bleach Germicidal Wipes</u>				67619-12	1 minute	
Item No. 30577	6" x 5" 150 ct. Canister	6/case				
Item No. 35309	6.75" x 9" 70 ct. Canister	6/case				
Item No. 32621	6.75" x 9" 100 ct. Softpack	9/case				
Item No. 31424	6.75" x 9" 50 ct. Individual	6/case				
Item No. 30358	12" x 12" 110 ct. Bucket	2/case				
Item No. 30359	12" x 12" 110 ct. Bucket Refill	2/case				
<u>Clorox Healthcare Bleach Germicidal Cleaner</u>				56392-7	1 minute	
Item No. 68970	32 fl. oz. Spray	6/case				
Item No. 68978	128 fl. oz. Refill	4/case				
<u>Dispatch Wipes</u>				56392-8	1 minute	
Item No. 69150	6.75" x 8" 150 ct. Canister	8/case				
<u>Clorox Healthcare Fuzion Cleaner Disinfectant</u>				67619-30	1 minute	
Item No. 31478	32 fl. oz. Spray	9/case				
<u>Clorox Healthcare Spore<sup>10</sup> Defense Cleaner Disinfectant</u>				67619-40	1 minute	
Item No. 32409	128 fl. oz. Bottle	4/case				
<u>Clorox Healthcare VersaSure Cleaner Disinfectant Wipes</u>				67619-37	30 seconds	
Item No. 31757	6.75" x 8" 85 ct. Canister	6/case				
Item No. 31758	6" x 5" 150 ct. Canister	6/case				
Item No. 31759	12" x 12" 110 ct. Bucket	2/case				
Item No. 31761	12" x 12" 110 ct. Bucket Refill	2/case				
Professional Disinfectants						
<u>CloroxPro Clorox Germicidal Bleach</u>				67619-32	5 minutes	
Item No. 30966	121 fl. oz. Bottle	3/case				
<u>CloroxPro Clorox Clean-Up Disinfectant Cleaner with Bleach</u>				67619-17	30 seconds	
Item No. 31903	32 fl. oz. Spray	9/case				
Item No. 31910	128 fl. oz. Refill	4/case				
<u>CloroxPro Clorox Disinfecting Wipes</u>				67619-31	15 seconds	
Item No. 15949	75 ct. Canister	6/case				Fresh Scent
Item No. 15948	75 ct. Canister	6/case				Lemon Scent
Item No. 31547	700 ct. Bucket	1/case				Fresh Scent
Item No. 31428	700 ct. Bucket Refill	2/case				Fresh Scent
<u>CloroxPro Clorox EcoClean Disinfecting Cleaner</u>				67619-45	30 seconds	
Item No. 60213	32 fl. oz. Spray	9/case				
Item No. 60094	128 fl. oz. Refill	4/case				
<u>CloroxPro Clorox EcoClean Disinfecting Wipes</u>				67619-48	5 minutes	
Item No. 60605	75 ct. Canister	6/case				



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