

Incubation and Contagious Periods of Infections

Young children are afflicted with infectious diseases 10 to 15 times per year. The attack rate decreases with age because with each new infection we build up antibodies against future ones.

What is an incubation period?

The incubation period is defined as the time between exposure to a contagious disease and the onset of symptoms. This information should help answer the questions, "When will my child come down with it?" and, "Should we cancel our weekend plans?"

If the outer time limit of the incubation period passes and your child is still well, he or she has probably escaped that infection for now (or has previous antibodies against it).

What is the contagious period?

The contagious period is defined as that amount of time during which a sick child's disease is contagious to others. Knowing this helps answer the question, "How long does my child have to stay home from school or day care?"

For major illnesses (such as hepatitis), a child will need to remain in isolation at home or in the hospital until all chance of spread has passed. For minor illnesses (like the common cold) the guidelines are less strict. Most physicians would agree that a child should stay home at least until he feels well enough to return to school, and the fever has been gone for 12 hours.

What infections are not contagious?

Try not to become preoccupied with infections. Some of the more serious ones are not even contagious. Some infections are due to blockage of a passageway followed by an overgrowth of bacteria. Examples of these are ear infections, sinus infections, and urinary tract infections. Lymph node and bloodstream infections are also rarely contagious. Pneumonia is a complication of a viral respiratory infection in most cases and is usually not contagious. While exposure to meningitis requires consultation with your child's physician, most children exposed to this disease do not become infected. Venereal (genital) diseases are usually noncontagious unless there is sexual contact or shared bathing arrangements.

What are the guidelines for the common contagious infections?

	Incubation	Contagious Period
Disease	Period (days)	

SKIN INFECTIONS

Chickenpox	10 to 21	5 days before rash until all sores have crusts (5-7 days)
Fifth disease	4 to 14	7 days before rash

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(Erythema infectiosum)		until rash begins
Hand, foot, and mouth disease	3 to 6	Onset of mouth ulcers until fever is gone
Impetigo (strep or staph)	2 to 5	Onset of sores until 24 hours on antibiotic
Lice	7	Onset of itch until one treatment
Measles	8 to 12	4 days before until 5 days after rash appears
Roseola	9 to 10	Onset of fever until rash is gone (2 days)
Rubella (German measles)	14 to 21	7 days before until 5 days after rash appears
Scabies	30 to 45	Onset of rash until one treatment
Scarlet fever	3 to 6	Onset of fever or rash until 24 hours on antibiotic
Shingles (contagious for chickenpox)	14 to 16	Onset of rash until all sores have crusts (7 days) (Note: No need to isolate if sores can be kept covered.)
Warts	30 to 180	See footnote A

RESPIRATORY INFECTIONS

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Bronchiolitis	4 to 6	Onset of cough until 7 days
Colds	2 to 5	Onset of runny nose until fever is gone
Cold sores (herpes)	2 to 12	See footnote B
Coughs (viral)	2 to 5	Onset of cough until fever is gone
Croup (viral)	2 to 6	Onset of cough until fever is gone
Diphtheria	2 to 5	Onset of sore throat until 4 days on antibiotic
Influenza	1 to 2	Onset of symptoms until fever is gone
Sore throat, strep	2 to 5	Onset of sore throat until 24 hours on antibiotic
Sore throat, viral	2 to 5	Onset of sore throat until fever is gone
Tuberculosis	6 to 24 months	Until 2 weeks on drugs (Note: Most childhood TB is not contagious.)
Whooping cough	7 to 10	Onset of runny nose until 5 days on antibiotic

INTESTINAL INFECTIONS

Diarrhea, bacterial	1 to 5	See footnote C
Diarrhea, giardia	7 to 28	See footnote C
Diarrhea, traveler's	1 to 6	See footnote C
Diarrhea, viral (Rotavirus)	1 to 3	See footnote C
Hepatitis A	14 to 50	2 weeks before until 1 week after jaundice begins
Pinworms	21 to 28	See footnote A
Vomiting, viral	2 to 5	Until vomiting stops

OTHER INFECTIONS

Infectious mononucleosis	30 to 50	Onset of fever until fever is gone (7 days)
Meningitis, bacterial	2 to 10	7 days before symptoms until 24 hours on IV antibiotics in hospital
Mumps	12 to 25	5 days before swelling until swelling gone (7 days)
Pinkeye without pus (viral)	1 to 5	See footnote A
Pinkeye with pus	2 to 7	Onset of pus until

(bacterial)

1 day on antibiotic
eye drops

TABLE FOOTNOTES

(A) Staying home is unnecessary because the infection is very mild and/or minimally contagious.

(B) Cold sores

- Under age 6 years: Your child should stay home until the sores are dry (4 to 5 days). However, if the sores are on a part of the body that can be covered, your child does not need to stay home.
- Over age 6 years: Your child does not need to stay home if he is beyond the touching, picking stage.

(C) Diarrhea

- Not toilet trained: Your child should stay home until stools are formed.
- Toilet trained: Your child should stay home until the fever is gone, diarrhea is mild, blood and mucus are gone, and your child has control over loose bowel movements.
- Consult your day care provider about attendance restrictions.

Written by B.D. Schmitt, M.D., author of "Your Child's Health," Bantam Books.

This content is reviewed periodically and is subject to change as new health information becomes available. The information is intended to inform and educate and is not a replacement for medical evaluation, advice, diagnosis or treatment by a healthcare professional.