

Norovirus (Formerly referred to as "Norwalk-like virus")

Disease Fact Sheet Series

What are noroviruses?

Noroviruses (previously called Norwalk viruses, caliciviruses, or SRSVs) are a group of viruses that cause acute gastroenteritis in humans, often referred to as "stomach flu". However, noroviruses are completely unrelated to influenza, a respiratory virus.

Who gets a norovirus infection?

Anyone can become infected with noroviruses. There are many different strains of norovirus, which makes it difficult for a person to develop a long-lasting immunity and norovirus infections may occur throughout a person's lifetime. In addition, because of differences in genetic factors, some people are more likely to become infected and develop more severe illness than others.

How are noroviruses spread?

The norovirus enters through the mouth, multiplies in the body, and is passed in the highly infectious stool or vomit of an infected person. If careful hand washing with soap is not done, the virus can be carried on an infected person's hands. If the infected person then handles food or drink that someone else consumes, the virus can be transmitted to others. Food associated outbreaks have been linked to cold prepared, ready-to-eat foods (e.g., salads, coleslaw, sandwiches or desserts) and shellfish harvested in contaminated waters. Outbreaks have also been associated with drinking water and recreational water (e.g., swimming ponds and beaches) where persons may have ingested water contaminated with fecal matter from an infected person.

Direct person-to-person contact or environmental contamination (e.g., exposure to areas where fecal accidents or vomiting has occurred) may also be a route of transmission.

What are the symptoms of a norovirus infection?

The most common symptoms are a sudden onset of vomiting, watery, non-bloody diarrhea, abdominal cramps, nausea and headache. The symptoms occur in all age groups, but vomiting is more common in children. Many persons may also experience low-grade fever, headache, chills, muscle aches and fatigue.

How soon after exposure will symptoms appear?

The symptoms may appear from 12-60 hours after exposure to the virus, but usually occur within 24-48 hours.

How infectious are noroviruses?

Noroviruses are highly infectious and a very small number of virus particles may result in symptomatic infections. Both stool and vomit are infectious.

For how long is a person infectious?

The virus is very easily passed from person-to-person from the time of symptom onset and up to 48 hours after diarrhea or vomiting.

What is the treatment for this illness?

There is no treatment for this illness. Most people recover in two to three days after they become ill. Supportive treatment such as fluid replacement may be needed to prevent dehydration in severe cases.

What can be done to prevent the spread of noroviruses?

Thorough hand washing (See Division of Public Health "*Hand washing*" Fact Sheet) following toilet use and before handling food is the best way to prevent the spread of these viruses. Persons currently ill with diarrhea or vomiting should not handle food, work in day care centers or care for patients in a health care facility until at least 48 hours after these symptoms have stopped.