

Cyclosporiasis

Cyclospora cayetanensis is a single-celled parasite that cannot be seen without a microscope. The first known human cases of Cyclospora infection (or cyclosporiasis) were reported in 1979. By the mid-1980s, cases were being reported more often. In the last several years, outbreaks of cyclosporiasis have been reported in the United States and Canada.

How is Cyclospora spread?

Cyclospora spreads by the fecal-oral route. That means people can get infected with the Cyclospora parasite by swallowing something, like water or food, that is contaminated with infected stool. When excreted in the stool, Cyclospora is not infectious right away. It may take days or weeks in the environment to become infectious. This means it is unlikely to be spread directly from an infected person to others. It is unknown whether animals can be infected and spread the infection to people.

Am I at risk for Cyclospora infection?

People of all ages are at risk for infection. In the past, Cyclospora infection was usually found in people who lived or traveled in developing countries. Now that many foods are imported, everyone can be at risk. Because the parasite is not infective right away, it is very hard to determine where a person has been exposed. In Canada, outbreaks have been traced to eating imported strawberries and raspberries.

What are the symptoms of Cyclospora infection?

The time between becoming infected and becoming sick is about one week. Cyclospora infects the small intestine (bowel) and usually causes watery diarrhea with frequent, sometimes explosive, bowel movements. Other symptoms can include loss of appetite, significant weight loss, bloating, increased gas, stomach cramps, nausea, vomiting, muscle aches, low-grade fever, and being very tired. Symptoms may seem to go away and then return one or more times, particularly among those not treated. If not treated, the illness may last from a few days to a month or more. Some people who are infected with Cyclospora do not have any symptoms.

How is Cyclospora infection diagnosed?

Your doctor will ask you to submit stool samples to see if you are infected. Testing for Cyclospora infection can be difficult, so you may be asked to submit more than one stool sample over a few days. Your doctor may also have your stool checked for other organisms that can cause similar symptoms.

How is Cyclospora infection treated?

The recommended treatment for Cyclospora infection is trimethoprim-sulfamethoxazole. Your doctor may prescribe this. People who have diarrhea should rest and drink plenty of fluids.

How can I prevent Cyclospora infection?

- Washing your hands well is the best prevention. Make sure you wash your hands with soap and water after using the toilet, changing diapers and before preparing and eating food.
- Wash and peel all fruits and vegetables before eating. Disinfectant washes for fruits and vegetables have not been proven to prevent the spread of this parasite. When travelling in developing countries, only eat raw fruits or vegetables you have peeled or sliced yourself.
- Use water from a safe supply. When travelling, camping or hiking, boil water for at least one minute, or drink only canned or bottled carbonated beverages. This parasite is not killed by low doses of chlorine or iodine. Remember to also boil water that is to be used for brushing teeth. Ice cubes made from contaminated water may also carry the parasite.
- Always eat shellfish cooked.

If you have any questions or concerns, please contact the Infectious Disease Control Team at 519-663-5317 ext. 2330 or go to www.healthunit.com

References:

Healthy Canadians. (2014) *Cyclospora*. Retrieved April 10, 2015, from <http://healthycanadians.gc.ca/eating-nutrition/poisoning-intoxication/cyclospora-eng.php>

Centers for Disease Control (2015) *Cyclospora* infection. Retrieved April 10, 2015, from <http://www.cdc.gov/parasites/cyclosporiasis/index.html>

Heymann, D.L. (Ed). (2015). *Control of communicable diseases manual*. (20th ed). Washington D.C.: American Public Health Association.

Date of Creation: November 24, 2012

Last Modified on: April 9, 2015