



# Guidelines

## For Returning to School and Work Following an E. Coli (STEC) Outbreak at Mánagarður Preschool

- When children can return to school and adults can return to work



Directorate of Health  
Chief Epidemiologist for Iceland

These guidelines aim to prevent further outbreaks of STEC infection in the community.

### 1. Children who have not been diagnosed with STEC

- Children who have not been tested for STEC **BUT** have had diarrhea or loose stools after October 17th **OR** have diarrhea (or get diarrhea in the next 2 weeks) should **not attend** kindergarten **AND** should submit a stool sample for PCR testing<sup>a)</sup>. If the sample is positive, refer to section 2 below.
- Completely asymptomatic<sup>b)</sup> children who have not been diagnosed with STEC **can attend** the preschool. Handwashing and general hygiene must be strictly observed, especially around meals, toilet visits, and diaper changes.

### 2. Children and adults who have been diagnosed with STEC

Those who have been diagnosed with STEC should **not** go to school or work until the following conditions are met:

- Diarrhea and other signs of the infection have ceased and stools are normal (formed stools) for at least 2 consecutive days.
  - After 2 days without symptoms, **2 stool samples must be submitted** for a PCR test, both showing negative results (no signs of infection) to go to school/work. The first test should be taken at the earliest 2 days after symptoms (diarrhea/loose or frequent stools) have resolved. The second sample should be taken at least 2 days after the first.
  - If a test returns positive for STEC, continue to stay home and submit a new stool sample after 2 weeks. If that test is negative, returning to school or work is allowed.
3. Adult **employees of the preschool** and **adult household members of children**, who work in food handling or the health service in patient care, and who became ill or were diagnosed with STEC, should **submit 2 stool samples** for PCR testing and receive negative results before returning to work.
  4. **Other household members** (children and adults) do **not** need to submit a stool sample, but anyone experiencing intestinal symptoms should be symptom-free for at least 2 days before returning to school or work.

a) **Faecal samples:** See [Instructions on how to take a stool sample](#)

b) **Asymptomatic:** No diarrhea, no looser stools than usual, and no increase in stool frequency.

## The Chief Epidemiologist

### Sources:

1. [Guidance Shiga toxin-producing \*Escherichia coli\*: public health management](#) UK Health Security Agency
2. [E. coli enteritis \(including EHEC infection and HUS\) – handbook for healthcare professionals](#) Norwegian Institute of Public Health

### Selected references:

1. Dabke G and others. 'Duration of shedding of Verocytotoxin-producing *Escherichia coli* in children and risk of transmission in childcare facilities in England.' *Epidemiology and Infection* 2014: volume 142, issue 2, pages 327 to 334
2. Desai M and others. 'Factors associated with prolonged *Escherichia coli* O157 infection in a school outbreak.' *Public Health* 2013: volume 127, issue 6, pages 582 to 585
3. Lauanders N and others. 'Disease severity of Shiga toxin-producing *E. coli* O157 and factors influencing the development of typical hemolytic uraemic syndrome: a retrospective cohort study, 2009 to 2012.' *BMJ Open* 2016. doi:10.1136/bmjopen-2015009933
4. MacDonald E and others. 'Implications of screening and childcare exclusion policies for children with Shiga toxin-producing *Escherichia coli* infections: lessons learned from an outbreak in a daycare center, Norway, 2012.' *BMC Infectious Diseases* 2014: volume 14, page 673
5. Matussek A and others. 'Shiga toxin-producing *Escherichia coli* in the diarrheal stool of Swedish children: evaluation of polymerase chain reaction screening and duration of Shiga toxin shedding.' *Journal of Pediatric Infectious Diseases Society* 2016: volume 5, issue 2, pages 147 to 151
6. Sharp JCM, RW, Coia JE, Curnow J, Synge BA. '*Escherichia coli* O157 infection in Scotland: an epidemiological overview.' *PHLS Microbiology Digest* 1995: Volume 12: pages 134 to 140
7. Snedeker KG, S.D., Locking ME, Prescott RJ. 'Primary and secondary cases in *Escherichia coli* O157 outbreaks: a statistical analysis.' *BMC Infectious Diseases* 2009: 9
8. Tourdjman M and others. 'Duration of shedding and secondary household transmission of Shiga toxin-producing *Escherichia coli* O26 during an outbreak in a childcare center.' *Oregon, October to December 2010. Journal of Pediatric Infectious Diseases Society* 2012: volume 1, issue 4, pages 329 to 332
9. World Health Organization (WHO). *E. coli* fact sheet. October 2016 (cited 1 February 2017)