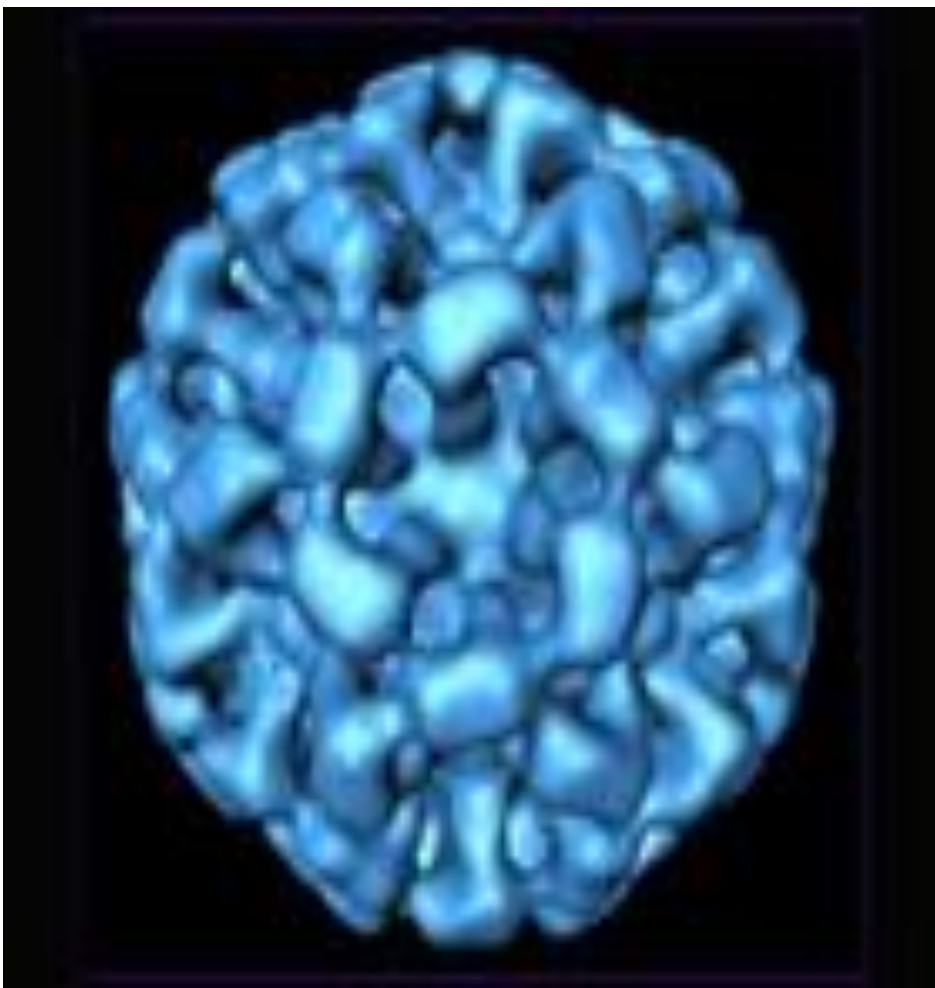




UK Health  
Security  
Agency

# Norovirus Toolkit

## A resource for Care Homes



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# Introduction

Norovirus, also called 'winter vomiting disease' because it usually occurs during the winter months, is the most frequent cause of infectious gastroenteritis in England and Wales and affects 600,000 to one million people in the United Kingdom every year.

Cases usually start to appear during the autumn, peaking during January. The symptoms usually last from 12 to 60 hours and will start with the sudden onset of nausea followed by projectile vomiting and diarrhoea.

This toolkit has been developed to help you prevent and control future outbreaks of Norovirus in your care home. The toolkit has been put together so that you can lift out the sections you need, when you need them.

# Norovirus Guidance for Care Homes

Norovirus also known as the winter vomiting disease is mainly found in the community. It causes diarrhoea and vomiting. Norovirus is a relatively mild illness. The elderly population are one of the most vulnerable, along with health care workers.

## **What is the norovirus?**

Noroviruses are a group of viruses that cause stomach bugs. The incubation period is between 12-48 hours, with the illness lasting between 1-3 days.

## **What are the signs and symptoms?**

Signs and symptoms include vomiting, diarrhoea, nausea, headache, pyrexia, myalgia (muscle pain), and abdominal pain.

## **How is the norovirus treated?**

There is no specific treatment for the norovirus apart from letting it run its course and drinking plenty of fluids.

## **How is it spread?**

The virus is easily transmitted from one person to another. It can be transmitted by contact with another infected person, or by eating contaminated food or water.

## **How can these outbreaks be stopped?**

Outbreaks can be difficult to control and long-lasting because norovirus is easily transmitted from one person to another and the virus can survive in the environment. The most effective way to respond to an outbreak is to disinfect contaminated areas, to institute good hygiene measures including hand washing and to provide advice on food handling. Those affected should not handle any food until 48 hours after their last symptom.

## **Are there any long-term effects?**

No, there are no long-term effects from norovirus; however the elderly population are at risk from dehydration

## **How should residents with norovirus be cared for?**

Those who have been infected should be isolated for up to 48 hours<sup>4</sup> after their symptoms have ceased. Residents should be encouraged or helped to drink plenty of fluids to prevent dehydration.

Stool samples need to be obtained from residents or staff with the illness (Depending on local arrangements).

Gloves and aprons should be worn when dealing with any bodily fluids and a good hand washing technique should be used when dealing with patients or contaminated areas.

### **Laundry and cleaning**

Water-soluble bags should be used for infected laundry and these items should be washed separate to other items, at the hottest temperature possible for the materials.

Frequent cleaning of touch points with a hypochlorite solution (1000 ppm) should be undertaken.

### **What if staff are infected?**

All infected staff should be excluded from work immediately, until 48 hours after their last symptom.

They should be encouraged to use good hand washing technique and drink plenty of fluids.

### **Who do we tell?**

Posters should be placed around the home warning people of the outbreak to encourage hand washing and to reduce unnecessary visits.

### **How should residents with norovirus be cared for?**

Those who have been infected should be isolated for up to 48<sup>1</sup> hours after their symptoms have ceased. Residents should be encouraged or helped to drink plenty of fluids to prevent dehydration.

Stool samples need to be obtained from residents or staff with the illness (Depending on local arrangements).

Gloves and aprons should be worn when dealing with any bodily fluids and a good hand washing technique should be used when dealing with patients or contaminated areas.

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<sup>1</sup> 48 hour exclusion period is advised in current clinical guidance; however, preference may be to practice a 72 hour exclusion period

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## **Who do we tell?**

Posters should be placed around the home warning people of the outbreak to encourage hand washing and to reduce unnecessary visits.

When two or more cases of diarrhoea have been identified then it is important to contact your local Community Infection Prevention and Control Team and/or the local UKHSA, Health Protection Team.

If a patient is admitted to hospital, the hospital should be informed of an outbreak of diarrhoea and vomiting within the home.

# Action to be taken during an increase of diarrhoea and vomiting in the Care Home

1. The most common cause of diarrhoea and vomiting in a care home is Norovirus, also known as the winter vomiting bug. It is transmitted from person to person via the faecal oral route, contamination of the environment, consuming contaminated food and water. Individuals with diarrhoea and vomiting are infectious up to 48 hours after symptoms of diarrhoea and vomiting cease.
2. If there are two or more symptomatic residents in a short period of time, notify your local infection, prevention and control Team (IPC) and/or the UKHSA, Health Protection Team (HPT) and Care Quality Commission (CQC). Also notify the resident's General Practitioner (GP).
3. All symptomatic residents should be isolated and nursed in their own rooms. If there is shared accommodation seek advice from your IPC Team or local HPT about cohort nursing residents.
4. Hand washing is the single most important measure in preventing further infection. Care staff must wash their hands after handling resident's blood and body fluids, secretions, their bedding, clothing, equipment and prior to donning and doffing of Personal protective equipment (PPE).
5. Remind staff and visitors to wash their hands before leaving a resident's room.
6. Provide facilities for residents to wash their hands with soap and water after using the toilet and before eating.
7. PPE (disposable gloves and aprons) should be worn by care staff to toilet or clean up residents who have soiled themselves, when disposing of excreta, or when handling soiled clothes and linen; wash hands after removing gloves.
8. Stool samples should be obtained from a resident with diarrhoea (please follow local policy).
9. Restrict staff movements between floors and wings. Advise that they do not work in other homes during an outbreak.
10. Symptomatic staff members must be sent home immediately, where possible obtain a faecal sample. They are not allowed back to work until they have been without symptoms for 48 hours.
11. Stop all bowel medicines (e.g. laxatives and anti-diarrheal drugs) unless instructed NOT to do so by GP.
12. Ensure infected persons(s) have separate toilet facilities e.g. toilet or commode with access to handwashing facilities.

13. Dispose of excreta into the toilet or bedpan washer: process commode pots in a bedpan washer. Where this facility is not available, care must be taken when cleaning commode pots. Carry out the process in a designated area with a deep sink using detergent and hot water, then dry with disposable paper towels, then wipe over with a hypochlorite solution. Staff must wear appropriate PPE when undertaking this task.
14. Wipe down commode chairs with soap and water, paying attention to the arms, seat and underside of the chassis, dry then wipe over with a hypochlorite solution.
15. Place linen contaminated with faeces or vomit in a water soluble bag and transport to the laundry (without delay). Do not manually sluice or hand wash linen (programme the washing to the pre-wash/sluice cycle, then wash on a hot wash).
16. Deal with spillages of blood and body fluids immediately. Follow the guidance on the spill pack kit, wear appropriate PPE and wash hands, then dry thoroughly.
17. Regularly clean the home environment (at least 3 times per day) "touch points" such as toilet flush, door handles, grab rails and taps at wash basins with warm soapy water and then a hypochlorite (.eg. bleach, 1:1000 ppm, Milton chlor cleanse etc.) Clean carpets and soft furnishing with hot soapy water or an industrial steam cleaner.
18. Serve hot cooked food during outbreaks. Remove exposed food from patients room and communal areas e.g. fruit
19. Arrangements should be in place to deep clean the environment once the outbreak has been declared over. This declaration must be agreed between the home owner/manager, local IPCN Teams or the Health Protection Team (follow local guidance).
20. Admission and transfers should be stopped (liaise with Local IPC Teams or Health Protection Team). Until there are no symptoms in residents and staff for 48 hours
21. Residents movements should be avoided unless medically urgent. If transferring to another area or hospital please inform them of the outbreak, even if the resident is symptom free. So they can take the necessary precautions.



# Norovirus- Frequently Asked Questions

## **What are Noroviruses?**

Noroviruses are a group of viruses that are the most common cause of gastroenteritis (stomach bugs) in England and Wales. In the past, noroviruses have also been called 'winter vomiting viruses', 'small round structured viruses' or 'Norwalk-like viruses'.

## **How does Norovirus spread?**

The virus is easily transmitted from one person to another. It can be transmitted by contact with an infected person; by consuming contaminated food or water or by contact with contaminated surfaces or objects

## **What are the symptoms?**

They will start with the sudden onset of nausea followed by projectile vomiting and watery diarrhoea. Some people may have a raised temperature, headaches and aching limbs. Most people make a full recovery within 1-2 days, however some people (usually the very young or elderly) may become very dehydrated and require hospital treatment.

## **Why does Norovirus often cause outbreaks ?**

Norovirus often causes outbreaks because it is easily spread from one person to another and the virus is able to survive in the environment for many days. Because there are many different strains of Norovirus, and immunity is short-lived, outbreaks tend to affect more than 50% of susceptible people. Outbreaks usually tend to affect people who are in semi-closed environments such as hospitals, nursing homes, schools and on cruise ships.

## **How can we stop outbreaks of Norovirus?**

Outbreaks can be difficult to control and long-lasting because norovirus is easily transmitted from one person to another and the virus can survive in the environment. The most effective way to respond to an outbreak is to disinfect contaminated areas, to establish good hygiene, including hand washing, and to provide advice on food handling. Those who have been infected should be isolated for up to 48 hours<sup>1</sup> after their symptoms have ceased.

### **How is Norovirus treated?**

There is no specific treatment for norovirus apart from letting the illness run its course. It is important to drink plenty of fluids to prevent dehydration.

### **If I am suffering from Norovirus, how can I prevent others from getting it ?**

Good hygiene is important in preventing others from becoming infected – this includes thorough hand washing before and after contact. Food preparation should also be avoided until 48 hours after the symptoms have subsided.

### **Who is at risk of getting Norovirus?**

There is no one specific group who are at risk of contracting norovirus – it affects people of all ages. The very young and elderly should take extra care if infected, as dehydration is more common in these age groups.

Outbreaks of Norovirus are frequently reported in semi-closed institutions such as hospitals, schools, residential and nursing homes, hotels and cruise ships. . Anywhere that large numbers of people congregate for periods of several days provides an ideal environment for the spread of the disease. Studies have shown that outbreaks are shortened when control measures at healthcare settings are implemented quickly, such as closing bays, wards, units to new admission with 4 days of the beginning of the outbreak and implementing strict hygiene measures.

### **How common is Norovirus?**

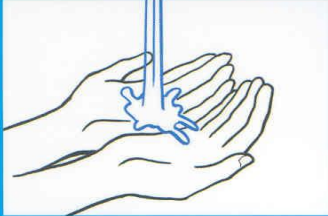
Norovirus is not a notifiable disease, reporting is done on a voluntary basis. The UKHSA only receives reports of outbreaks; Every year since 2016 we have seen anywhere up to 500 or more outbreaks of Norovirus in the West Midlands alone. It is estimated that Norovirus affects between 600,000 and a 1 million people in the UK each year.

### **Are there any long term effects?**

No, there are no long term effects from Norovirus

### **What can be done to prevent infection?**

It is impossible to prevent infection; however, taking good hygiene measures (such as frequent handwashing) around someone who is infected is important. Certain measures can be taken in the event of an outbreak, including the implementation of basic hygiene and food handling measures and prompt disinfection of contaminated areas, and the isolation of those infected for 48 hours after their symptoms have ceased.



# Wet



# Soap



# Wash



# Rinse



# Dry

Stop germs spreading.  
The power is in your hands.

Have you washed your germs away? Wash your hands.

# Appendix 1

## Checklist of Actions to be taken in a Single Case of Diarrhoea and Vomiting

1. Isolate patient in a single room
2. Is the patient sharing with another provide toilet facilities (commode)
3. Provide liquid hand wash / paper towels / fresh towels daily
4. Provide alcohol hand gel for staff
5. Staff to encourage patient to wash hands after
  - going to toilet
  - before eating / drinking
6. Advise staff of need to increase their hand washing
7. Record date and time of first symptoms; keep a stool chart
8. Inform the GP
9. Stop all laxatives / anti-diarrhoeal drugs
10. Get a stool specimen
11. Increase cleaning of the toilet / commode (cleaned after each use using soap and disinfected with a bleach solution 1000 ppm )
12. Place soiled linen in a red alginate bag and wash in a washing machine
13. Clean patient room every day; wipe down wipe able surfaces especially doorknobs, toilet handles with soap and disinfect with a bleach solution 1000 ppm
14. Place all clinical waste such as incontinent pads, gloves aprons, hand towels in yellow bags
15. Patient is considered clear after 48 hours symptoms free

Deep clean patients bedroom, cleaning all carpets, mattresses both sides, bed frames, curtains etc. (steam cleaning is advised or clean with bleach solution 1000ppm)

## Appendix 2

### Checklist of Actions to be taken in two or more Cases of Diarrhoea and Vomiting

1. Isolate patients in single room where possible
2. Cohort nurse those in shared rooms
3. Provide toilet facilities where possible use one commode per patient for those individuals who do not have their own toilet facilities.
4. Provide liquid hand wash / paper towels / fresh towels daily
5. Provide alcohol hand gel for staff
6. Encourage patients to wash hands after
  - going to toilet
  - before eating / drinking
7. Keep a record of all symptomatic patients (see Appendix 3)
8. Inform the following:
  - the GP
  - the Infection Control Nurse for PCT
  - Health Protection Agency
  - Registration Team
  - Environmental Health Service
9. Stop all laxatives / anti-diarrhoeal drugs
10. Get a stool specimen from all symptomatic patients / staff
11. Increase cleaning of the toilet / commode (cleaned after each use using soap and disinfected with a bleach solution 1000 ppm)
12. Increase cleaning of environment pay attention to Touch points e.g. toilet flush, door handles with soap and disinfect with a bleach
13. Place soiled linen in a red alginate bag and wash in a washing machine
14. Clean residents room every day; wipe down wipe able surfaces especially door knobs, toilet handles with soap and disinfect with a bleach solution 1000ppm.
15. Place all clinical waste such as incontinent pads, gloves aprons, hand towels in yellow bags

Once all residents have stopped having symptoms for 48 hours inform the HPU and once the HPU have advised that the outbreak is over; then deep clean the entire home.

# Appendix 3

## OUTBREAK RECORD: RESIDENT DETAILS

Name and address of Residential / Nursing Home

(D) Diarrhoea, ( V ) vomiting (SC) Stomach Cramps, (N) Nauseau

Name of Patient	Date Of Birth	Date of Onset	Symptoms D,V,SC, N	Patient on antibiotics/Laxatives	Date Specimen sent	Date symptoms ended	Results	Patient outcome e.g. Hospitalised

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# About the UK Health Security Agency

The [UK Health Security Agency](#) is an executive agency, sponsored by the [Department of Health and Social Care](#).

[www.gov.uk/government/organisations/uk-health-security-agency](http://www.gov.uk/government/organisations/uk-health-security-agency)

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