



Gastroenteritis outbreak management information for South Australian residential environments

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For further information

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Table of Contents

Introduction.....	2
1. Information about Gastroenteritis	4
1.1. Background.....	4
1.2. Gastroenteritis in residential environments	5
2. Infection Control Measures.....	6
2.1. Staff	6
2.2. Residents.....	7
2.3. Visitors/relatives/attending therapists.....	8
2.4. Hand hygiene	8
2.5. Personal protective equipment (PPE).....	8
2.6. Cleaning up vomit/faeces.....	9
2.7. Environmental cleaning	10
2.8. Food.....	11
2.9. Soiled linen	12
3. Steps for collecting faecal specimens.....	12
4. References.....	13
4.1 Guidelines and standards	13
4.2 Resources	13
5. Appendices	14
6. Document Ownership & History.....	14

Introduction

This practical information regarding the management of gastroenteritis has been developed to assist all residential environments* such as residential aged care homes (RACH), to manage outbreaks of gastroenteritis.

Gastroenteritis is caused by a range of pathogens including viruses, bacteria and protozoa, which can cause outbreaks in the community and institutions. In South Australia certain bacterial, viral and protozoal gastroenteritis diseases and suspected food poisoning are notifiable to the Communicable Disease Control Branch (CDCB) of the Department for Health and Wellbeing, under the *South Australian Public Health Act 2011*. This requirement is the responsibility of both medical practitioners and laboratories. Viral agents of gastroenteritis (other than rotavirus infection) are not notifiable but can still cause serious outbreaks in institutions and need to be managed. Importantly, it may be difficult to determine in the initial stages of an outbreak if the cause is due to food poisoning or not and so it is advisable that any gastroenteritis outbreak is managed in accordance with this information. It is important that infection control strategies are implemented immediately to prevent the spread of infection to other residents, staff, visitors, and volunteers. Similarly, it is important that specimens are sent early in an outbreak to assist with diagnosis and treatment.

The facility, the Department for Health and Wellbeing, and local government authorities share the responsibility for investigation and management of gastroenteritis outbreaks. Environmental health officers (EHOs) from the respective local government authorities can be contacted to investigate the potential environmental causes for the outbreak, such as food or water. The CDCB can be contacted for information, and advice.

While the information in this document is aimed at residential facilities, the principles outlined in [Section 2](#) may be applicable to other settings (e.g. schools, childcare centres, and pre-schools) and may be used to guide decision making other circumstances.

The [Appendices](#) contain forms that can be utilised by the residential facility for recording information regarding [both staff](#) and [resident](#) cases. Sample signs are also provided that can be utilised by the facility if required. In addition, there are fact sheets provided that are designed for residents, and relatives; these can be printed and photocopied as required.

Instructions for use

*The information provided in this document can be applied to other health and non-health settings, including hospitals, hostels, rehabilitation facilities and cruise ships.

It is advised that the recommendations within this document be implemented in conjunction with other relevant guidelines, including:

- > [Australian Guidelines for the Prevention and Control of Infection in Healthcare](#)
- > Communicable Diseases Network Australia (CDNA) [Guidelines for the public health management of gastroenteritis outbreaks due to norovirus or suspected viral agents in Australia](#)
- > Australian Government Department of Health and Ageing [Gastro-Info Outbreak Coordinator's Handbook](#)
- > Centers for Disease Control and Prevention (CDC) vessel sanitation program: [Facts about Norovirus on Cruise Ships and Vessel Sanitation Program](#)

Definitions

In the context of this

- > **Aerosol:** Microscopic particles <5 µm in size that are the residue of evaporated droplets and are produced when a person coughs, sneezes, shouts or sings. These particles can remain suspended in the air for prolonged periods of time and can be carried on normal air currents in a room or beyond, to adjacent spaces or areas receiving exhaust air.
- > **Contact transmission** is the most common mode of transmission, and usually involves transmission by touch or via contact with blood or body substances.
- > **Direct transmission** occurs when infectious agents are transferred from one person to another—for example, a patient's blood entering a healthcare worker's body through an unprotected cut in the skin.
- > **Indirect transmission** involves the transfer of an infectious agent through a contaminated intermediate object or person—for example, a healthcare worker's hands transmitting infectious agents after touching an infected body site on one patient and not performing proper hand hygiene before touching another patient, or a healthcare worker coming into contact with fomites (e.g. bedding) or faeces and then with a patient.
- > **Cleaning** with detergent and water, followed by rinsing and drying, is the most useful method for removing germs from surfaces. Detergents help to loosen the germs so that they can be rinsed away with clean water. Mechanical cleaning (scrubbing the surface) physically reduces the number of germs on the surface.
- > **Disinfection:** Reduction of the number of viable microorganisms (by physical or chemical means) on a product to a level previously specified as appropriate for its intended further handling or use. This process intends to kill or remove pathogenic microorganisms.
- > **Epidemic:** A widespread outbreak on an infectious disease. Many people are infected at the same time.
- > **Epidemic curve:** The distribution of the times when people have become ill. The numbers of people who are ill on each day or are graphed over a period.
- > **Faecal-oral route:** The infecting organism is spread when microscopic amounts of faeces from an infected person with symptoms, or an infected person without symptoms (a carrier), are taken in by another person by mouth. The faeces may be passed directly in microscopic amounts from soiled hands to mouth or indirectly by way of objects, surfaces, food, or water soiled with faeces.
- > **Food handler:** A person who directly engages in the preparation / handling of food or who touches surfaces likely to be in contact with food.
- > **Gastroenteritis:** Describes a group of conditions involving inflammation of the stomach and intestines usually caused by infection with a micro-organism or ingestion of chemical toxins. Gastroenteritis usually consists of mild to severe diarrhoea that may be accompanied by loss of appetite, nausea, vomiting, cramps, and discomfort in the abdomen.
- > **Hand hygiene (HH):** A general term applying to processes aiming to reduce the number of microorganisms on hands. This includes application of a waterless antimicrobial agent (e.g. alcohol-based hand rub) to the surface of the hands; and

use of soap/solution (plain or antimicrobial) and water (if hands are visibly soiled), followed by patting dry with single-use towels.

- > **Hand washing:** The application of soap and water to the surface of the hands Then drying hands thoroughly.
- > **Illness register:** A register used to collect information on gastroenteritis cases and may be referred to as a line list.
- > **Incubation period:** The interval from the ingestion of the micro-organism (for gastroenteritis) to the time clinical illness begins.
- > **Infection:** The process by which organisms capable of causing disease gain entry to the body and increase in numbers.
- > **Infectious gastroenteritis:** Gastroenteritis caused by an infection with a micro-organism. A large range of micro-organisms have been reported to cause gastroenteritis including norovirus, rotavirus, *Salmonella*, *Clostridium perfringens* and *cryptosporidium*.
- > **Infectious period:** The period that the infected person can transmit the disease.
- > **Line list:** See illness register
- > **Outbreak:** An epidemic limited to localised increase in the incidence of a disease, e.g., in a town, or an institution. (e.g hospital, RACH, school, childcare etc.)
- > **Pathogen:** A micro-organism which causes disease.
- > **Sanitisation:** A process that reduces microbial contamination to a low-level using cleaning solutions, hot water, or chemical disinfectants.
- > **Standard precautions:** Standard practices are work practices that constitute the first-line approach to infection prevention and control in the healthcare environment. These are recommended for the treatment and care of all patients.
- > **Transmission-based precautions:** Extra work practices in situations where standard precautions alone may be insufficient to prevent infection. For patients known or suspected to be infected or colonised with infectious agents that may not be contained with standard precautions alone. Transmission-based precautions are tailored to the specific infectious agent concerned and may include measures to prevent airborne, droplet or contact transmission.

1. Information about Gastroenteritis

1.1. Background

Gastroenteritis is a term used for inflammation of the stomach and intestines, usually caused by infection. Major symptoms include diarrhoea, vomiting, nausea and abdominal cramps. Sometimes these symptoms may be accompanied by fever, headache, and overall weakness.

People most at risk of developing complications of gastroenteritis include infants, young children, immuno-compromised and the elderly. In Australia, outbreaks of infectious/transmissible gastroenteritis in group care settings such as hospitals and RACH occur. Many of these outbreaks are due to viruses (a common cause includes norovirus) and are likely to be due to person-to-person transmission. For all settings, communal living conditions, staff such as health care workers and the use of common food preparation areas may facilitate the spread of disease.

There are many causes of gastroenteritis (see [Appendix 1 – Common causes of gastrointestinal illnesses](#)). Common causes are infectious organisms such as certain bacteria, viruses, and protozoa. In general, people acquire infectious gastrointestinal illness by direct person to person transmission, airborne spread through aerosolised vomit, consumption of contaminated food or water, or contact with contaminated environmental surfaces or fomites (objects). It is unlikely that gastrointestinal infection with a viral pathogen occurs via the lower respiratory tract. It is more probable that an individual can acquire the infection from breathing in aerosolised vomit and then swallowing the infected aerosols.

In persons with gastroenteritis or in an outbreak of gastroenteritis, it can be difficult to identify the source as foodborne or person-to-person transmission, however laboratory confirmation of the pathogen can assist. The symptoms of bacterial infections (often foodborne) can differ from viral infection symptoms (often person-to person transmission). Gastrointestinal illnesses due to bacteria such *Salmonella* and *Campylobacter* typically cause symptoms of diarrhoea (that may contain blood, mucus, or pus), abdominal cramping and vomiting. The incubation period (i.e. from the time the person becomes infected to developing the symptoms) varies depending on the pathogen but may range from a few hours to several days. Viruses such as rotavirus, norovirus, adenovirus and astrovirus can cause gastroenteritis in humans. Gastroenteritis outbreaks are most commonly due to the viral pathogen, norovirus, and are characterised by a high number of exposed people becoming infected, a high frequency of vomiting and short duration of illness (from 24 to 48 hours).

Another cause of diarrhoeal illness within facilities that should be considered is *Clostridiodes difficile* (previously known as *Clostridium difficile*). *C. difficile* infection is a disease of the large intestine that is caused by toxins produced by the anaerobic, spore-forming bacterium *C. difficile*. One major trigger for infection is disturbance of the normal intestinal flora during antibiotic treatment. This allows ingested spores to colonise the intestine and produce toxins that attack the lining of the intestinal wall. Severity can range from mild, self-limiting diarrhoea to a serious form of the disease, known as pseudomembranous colitis. The latter has a high mortality rate if not recognised early and treated appropriately.

A summary of signs and symptoms and incubation periods of various causes of gastroenteritis are included in [Appendix 1](#). This summary also includes suggested exclusion or heightened infection control periods that consider issues such as the mode of transmission of the organism, the incubation period, the possibility of prolonged shedding of the organism, and the possibility of serious morbidity or mortality from the infection.

There is no specific treatment for most forms of infective gastroenteritis. It is generally a self-limiting illness. In infants and elderly persons, the most common complication is dehydration, so maintaining good fluid intake is important.

The early implementation of infection prevention and control (IPC) procedures may limit the spread of infection and reduce resident morbidity and mortality.

1.2. Gastroenteritis in residential environments

The onset of unexplained vomiting and/or diarrhoea in more than one person over a 24-hour period warrants heightened awareness by facility staff and may suggest an outbreak in a residential facility (excluding cases who have a known cause e.g., Crohn's disease or aperients). There are other causes to consider in other settings e.g. pregnancy and alcohol-induced intestinal irritation.

An individual case of gastroenteritis maybe defined as a person with new onset of three or more loose stools in a 24-hour period that are different from normal (for that person) and/or two or more episodes of vomiting in a 24-hour period that is different from normal (for that person).

An outbreak is defined as two or more individuals who have vomiting or diarrhoea over a 24-hour period. During an outbreak, specific actions need to be implemented to:

- > stop the spread of infection
- > ensure that the outbreak is not due to foodborne sources
- > identify the cause and source of the infection.

Refer to [Appendix 2](#) for a flowchart illustrating the steps in the management of an outbreak of gastroenteritis.

It is important to record details (known as a 'line-list') about each suspected case of gastroenteritis (including staff) which includes:

- > time and date of when the illness began
- > duration of illness
- > information on key symptoms
- > possible source of infection (potentially unsafe food, water, or food outlet)
- > when laboratory tests have been conducted and
- > the results of the laboratory tests (if applicable).

An outbreak is deemed over when there have been no new cases for 72 hours or as indicated in [Appendix 2](#).

Refer to Appendix form: [Register for residents ill with gastroenteritis](#) and Appendix form: [Register for staff ill with gastroenteritis](#).

2. Infection Prevention and Control Measures

This information outlines the approach to infection prevention and control (IPC) in a residential setting to protect against the spread of gastroenteritis. For all gastrointestinal infections person-to-person spread is possible, even if the infection was initially food-borne. IPC attempts to prevent the person-to-person spread via the faecal-oral route and by contamination of environmental surfaces. The steps below will help to stop the further spread of a gastroenteritis outbreak.

WHAT SHOULD WE DO?

All precautions outlined below are designed to limit the spread of illness. They are based on the principles of standard precautions with the addition of specific transmission-based precautions as necessary and as indicated by a risk assessment process.

Refer to [Appendix 3](#) for an IPC measures check sheet.

2.1. Staff

- > Exclude staff with symptoms of diarrhoea/vomiting from work for at least 24 hours after diarrhoea and vomiting ceases. Any staff who either prepare or handle food should be excluded from work for at least 48 hours after vomiting and diarrhoea have ceased.

- > All staff with known or suspected norovirus to be excluded from work until at least 48 hours after resolution of their symptoms. Staff who develop symptoms at work must go home immediately.
- > Staff who work in other institutions (such as agency staff and medical staff) should be made aware of the risk of transmission to other institutions.
- > Personal protective equipment (PPE) including single-use disposable gloves and a long-sleeved gown should be worn upon entering the rooms of residents unwell with gastroenteritis, (see section on [PPE](#)) and disposed of immediately after removal and prior to leaving the room.
- > Hands must be washed before and after each contact with a resident and before and after using disposable gloves. An alcohol-based hand rub can also be used when soap and water is not easily accessible (see section on [Hand Hygiene](#)). Soap and water should be used when hands are visibly soiled.
- > Fluid repellent surgical masks and eye protection should be worn by staff when there is a potential for aerosol dissemination e.g. attending a person who is vomiting or cleaning areas or items that are visibly contaminated by faeces or vomitus.
- > Where possible avoid staff movement to unaffected areas of a facility.
- > All staff should wear clean clothing daily and change soiled clothing as soon as possible.

Wherever possible there should be dedicated staff to care for residents unwell with gastroenteritis. These staff should not be involved in the preparation or serving of food or feeding of well residents. If dedicated staffing is not possible staff must observe strict handwashing procedures when moving between well and unwell residents.

2.2. Residents

- > All residents should wash their hands, or have their hands washed, before meals, and after any episodes of vomiting/diarrhoea (see section on [Hand Hygiene](#)).
- > Well residents should be separated from unwell residents for at least 24 hours (48 hours if known or suspected norovirus) after resolution of symptoms.
- > Residents unwell with gastroenteritis should not use common areas, shared lounges, and meal areas while symptomatic. Where possible, residents unwell with gastroenteritis should not share a room with others. If residents unwell with gastroenteritis must share a room with others, then strict IPC including hand hygiene procedures must be in place for staff, residents and visitors, and separate toilet facilities should be allocated for the affected residents.
- > Well residents may be allowed to continue normal daily activities. Consideration should be given to stopping non-essential communal activities dependent on the number of unwell residents and staff, and a risk assessment of the extent of the outbreak.
- > If possible, avoid transferring unwell residents to other institutions whilst outbreak is in progress or the outbreak is not well controlled. If a transfer is necessary, ensure receiving institution and ambulance service is notified of the outbreak.
- > Where possible no new residents should be admitted to the affected area until outbreak is over, however residents who have been in a hospital can be transferred back especially if it is to a room with ensuite facilities. This should be discussed with the transferring facility and IPC advice obtained if required.

2.3. Visitors/relatives/attending therapists

- > Visitors entering a facility where there is an outbreak should be made aware of the risk of transmission and infection and discouraged from bringing food into the facility.
- > Signs should be posted at the entrance of the facility, on the door of affected resident's rooms and/or on the toilet designated for use by affected residents (See [Appendix 4](#) for examples of alert notices and posters).
- > Visitors to affected areas may need to be limited, and IPC precautions taken during the visit. Where possible, visitors should not visit both areas affected and unaffected by the outbreak during the same visit.
- > All visitors should practice good hand hygiene including washing hands with soap and water or decontamination using alcohol-based hand rub (ABHR) of their hands on arrival and leaving the facility as well before and after visiting. A hand hygiene station at the entrance and access to hand hygiene equipment will assist with compliance.
- > Visitors experiencing any symptoms of infectious gastroenteritis should be advised not to visit the facility until at least 24 hours (48 hours if known or suspected norovirus) after their diarrhoea and vomiting ceases.
- > Avoid non-essential visits from therapists e.g. podiatrists, physiotherapists, hairdressers, masseuse in areas experiencing an outbreak of gastroenteritis.
- > Generally, there is no need to close a whole facility. If this is to be considered contact the CDCB on 1300 232 272 for advice. However, if cases are confined to a particular area that can easily be isolated then limiting visitors, deferring, or cancelling communal activities or therapy should be considered.

2.4. Hand hygiene

- > Staff and visitors should wash their hands before and after all resident contact.
- > Residents should wash their hands after going to the toilet, before meals, and after any episode of diarrhoea or vomiting. They should be given assistance with personal hygiene as required.
- > Hands should be washed thoroughly by rubbing all surfaces of lathered hands vigorously for at least 20 seconds with soap under running water.
- > When washing is complete thoroughly rinse hands under running water, then dry hands well by patting with a disposable paper towel.
- > Soap and water should be used wherever possible. ABHR may be useful for hand decontamination providing hands are not visibly contaminated with vomit, faeces, or any other body fluids.
- > It is preferable to use soap and water for hand hygiene whenever norovirus is suspected or confirmed as the cause of the outbreak. Hands should be washed especially when visibly contaminated with body fluids, faeces, or vomit.
- > ABHR products are not highly effective against norovirus or *C. difficile*. ABHR can be used when handwashing facilities are not available, however hands should then be washed as soon as appropriate facilities are available.

2.5. Personal protective equipment (PPE)

- > Examples of PPE are:
 - disposable gloves (a range of suitable sizes should be available)
 - disposable long sleeved gowns (impermeable, fluid resistant)
 - plastic aprons

- masks (surgical, fluid repellent)
 - protective eyewear (e.g. goggles, safety glasses or face shields); these items are used to prevent splashes of vomit or faeces to the eyes, nose, and mouth.
 - > Care must be taken when removing PPE to reduce the risk of self-contamination.
 - > Hands must be washed thoroughly after removal of PPE.
 - > Reusable plastic aprons and protective eyewear should be cleaned and disinfected after each use. This can be achieved by using:
 - > detergent and warm water followed by wiping with a bleach solution
- OR**
- > 2-in1 clean in which a mechanical/ manual cleaning action using a combined detergent/disinfectant solution or wipe is performed e.g. detergent/sodium hypochlorite product, diluted according to manufacturer's instructions.
 - > Adequate stocks of PPE should be provided and be easily accessible.
 - > Choose the appropriate PPE for the task to be undertaken. Masks and protective eyewear may be required for handling vomit/faeces from affected persons.
 - > Gloves are to be removed in area of use - they are not to be worn out into common areas. Hands must be washed or decontaminated before and after using disposable gloves and in accordance with the [5 moments for hand hygiene](#), noting that gloves are single use only.

The use of gloves does not replace the need for regular hand hygiene in accordance with the 5 moments.

2.6. Cleaning up vomit/faeces

- > Vomit can produce aerosols suspended in the air and fall onto food or surfaces. If a person vomits in a public area, all people should be removed from the vicinity and the area cleaned immediately.
- > Choose and put on PPE (refer [PPE section](#)) – including gloves, apron/long sleeve gown and mask.
- > Soak up excess vomit/faeces with paper towel and dispose into leak proof plastic bag.
- > Clean area with detergent and water using a disposable cloth and discard into a plastic bag.
- > Disinfect affected area/surface with chlorine-based solution (refer [table 1](#) for dilution example). Check surface compatibility with manufacturer's instructions.
- > Use disposable mop heads if possible, or if non-disposable mop heads are used, launder in a hot wash.
- > Wash hands after removing PPE and gloves.
- > Soiled carpeted areas should be cleaned with detergent and water then steam-cleaned. Vacuum cleaning carpets has the potential to recirculate virus particles and is not recommended.

Note: CDNA notes that repeated outbreaks of norovirus have occurred even when carpets have been steam cleaned.
- > Soft furnishings that may be damaged by bleach should be cleaned thoroughly with detergent and water or steam cleaned and then left to dry completely. Contaminated mattresses should be steam cleaned. Contaminated pillows should be laundered in

the same way as linen. Pillows and mattresses with impermeable covers should be cleaned either by using:

- detergent and warm water followed by wiping with a bleach solution.

OR

- 2-in1 clean in which a mechanical/ manual cleaning action using a combined detergent/disinfectant solution or wipe is performed (e.g. detergent/sodium hypochlorite product, diluted according to manufacturer's instructions).
- > Metal surfaces that may be damaged by bleach may be cleaned thoroughly with detergent and water and then wiped with an alcohol-impregnated wipe.

2.7. Environmental cleaning

- > PPE (including a surgical mask) must be worn when cleaning areas used by people affected by gastroenteritis.
- > Contaminated shared bathrooms, toilets and frequently touched surfaces have been implicated in the transmission of gastroenteritis illness. Frequent and thorough cleaning of these areas is necessary to limit the spread. This includes thoroughly cleaning frequently touched areas by completing a:
- **2-step clean** which involves a physical clean using detergent solution followed by use of a chemical disinfectant such as a chlorine-based solution (1,000 parts per million (ppm) available chlorine – refer to dilution [table 1](#))
- OR**
- **2-in-1 clean** in which a mechanical/manual cleaning action using a combined detergent/disinfectant solution or wipe is performed e.g. detergent/sodium hypochlorite product, diluted according to manufacturer's instructions. Close attention to thorough cleaning of all surfaces is required; refer to [SA Health Cleaning Standard](#).
- > Increasing the frequency of cleaning frequently touched surfaces e.g. handrails in corridors, shared bathrooms etc. is recommended to limit transmission.
- > Surfaces soiled with faeces/vomit should be cleaned with detergent and water followed by wiping with a bleach solution diluted to 1,000 ppm (refer [table 1](#)).
- > Ideally, rooms of affected residents should be cleaned last, however if this is not possible clean equipment (mops, cloths) must be used prior to changing area/rooms.
- > If soiling occurs in a public area with either vomitus or faecal matter the following should be adhered to:
- remove people from the vicinity
 - discard any uncovered food
 - clean surfaces with detergent and water and bleach solution as described above
 - close the area at least 1 hour.
- > Where possible cleaning equipment should be disposable and discarded immediately after use. If this is not possible cleaning equipment (mop heads and cloths) must be laundered in hot, soapy water and dried (air or tumble dryer) immediately after use.
- > Terminal cleaning of an affected area, section or unit should be carried out 72 hours after resolution of symptoms in the last case. Beds and furniture of affected residents should be cleaned with detergent and water then wiped with a bleach solution. Blankets should be laundered.

If mattresses have been contaminated by vomit or faeces, they should be steam cleaned.

Bleach solution

Household bleach sold for laundry and cleaning purposes is available as a 4 – 5% solution at the time of manufacture. Strength varies from one formulation to another and gradually decreases with long storage.

The recommended concentration of available chlorine for routine disinfection of cleaned surfaces is 1,000 ppm as this concentration has been shown to be effective against most microbial pathogens.

Caution: Follow manufacturer's safety data sheets (MSDS) when handling and mixing bleach including the following precautions – mix in a well-ventilated room; use PPE (wear eye protection and reusable utility gloves when handling and using undiluted bleach); it should not be used in spray bottles; do not mix with any other chemical. It is corrosive to metals.

Table 1: Dilution of bleach solution

A full fact sheet is available – see SA Health [Environmental hygiene in healthcare](#).

Liquid solution (sodium hypochlorite)

Strength of bleach	Dilution to achieve approximately 1,000 ppm available chlorine		Volume of bleach to be added to 1 L cold water
	Parts of bleach	Parts of water	
4%	1	39	25 ml
5%	1	49	20 ml

Tablets (chlorine-generating tablets)

Product	Active ingredient [^] per tablet	Dilution to achieve approximately 1,000 ppm available chlorine
ActichlorPlus™	53% w/w	1 tablet in 1 litre of water

Note: Milton™ ([^]sodium dichloroisocyanurate (NaDCC) tablets are not validated for use as a surface disinfectant and are not recommended for this purpose; ppm=parts per million

2.8. Food

- > Refer also to section on [hand hygiene](#).
- > Only catering staff should have access to the kitchen during the outbreak.
- > If catering staff become unwell, discard any food prepared by the unwell staff member.

Staff who prepare or handle food who become unwell with diarrhoea and/or vomiting should not return to food handling duties until at least 48 hours after their symptoms have ceased.

- > Staff who have been in contact with persons with gastroenteritis should not prepare or serve food to unaffected persons.
- > Ensure all appliances, work benches and equipment are effectively cleaned and sanitised.

- > Communal dining areas should be closed during an outbreak. If this is not possible then ensure residents are encouraged to wash or use an ABHR before entering and that the area is thoroughly cleaned and disinfected after each use.
- > Ensure non-catering staff have minimal contact with preparing and handling food.
- > All utensils and dinnerware are to be handled in the usual manner, using either detergent and hot water or dishwasher.
- > Air drying of dishes is preferable to towel drying.

2.9. Soiled linen

- > Appropriate PPE must be worn when handling soiled linen.
- > Ensure minimal handling of soiled linen and clothes to avoid microbial contamination of staff and the air. Soiled linen should be placed immediately in collection bags with addition of leak proof plastic bag, as indicated.
- > The practice of hosing off gross soiling from clothing and linen prior to laundering is not recommended. However, if this is the only available option then hosing off gross soiling from clothing/ linen prior to laundering should be done away from resident facilities and be performed with extreme care. The wearing of PPE including full face protection, gowns and gloves is essential for this procedure.
- > Transport used linen in a closed bag; place linen bag in a plastic outer bag if wet or if leaking is anticipated.
- > Linen should be laundered in accordance with the laundry practice standard (currently AS/NZS 4146:2024 *Laundry Practice*).

3. Steps for collecting faecal specimens.

Specimen collection for bacteria, virus and parasitic detection should begin immediately.

- > Send all specimens to your nominated diagnostic laboratory. Where possible, give the laboratory prior notice of increased cases of gastroenteritis in the facility.
- > Collect specimens from several unwell residents and staff. The number required may vary depending on the size and duration of the outbreak, and likely causative organism.
- > Collect specimens during the acute stage of the illness. Viral excretion is greatest during the phase that stools are liquid or semi solid. Staff should wear, if appropriate, PPE when collecting specimens.
- > Collect a liquid specimen (about the size of a cherry) in a stool or urine container. A useful method to obtain faecal specimens is to place a disposable plastic container inside the toilet or commode before use by a resident. Faecal matter can also be collected from incontinence pads using a disposable spoon or spatula. Some laboratories will not test formed faecal specimens For further information refer to [SA Health how to collect a faecal specimen](#).
- > Refrigerate specimens in a designated area at 4°C, (if specimen fridge is not available a chilled cooler can be utilised) and arrange transportation to the laboratory as soon as possible. During transportation specimens should be bagged, sealed, and kept on ice or in a refrigerated container.

Request the following tests for every specimen:

- PCR for enteric bacteria
 - PCR for enteric viruses including norovirus.
- > If the above tests are negative, and the outbreak continues, then testing for enteric parasites (e.g. cryptosporidium), *C. difficile* toxin and other pathogens should be considered. Refer to the CDNA [Guidelines for the public health management of gastroenteritis outbreaks due to norovirus or suspected viral agents in Australia](#).
- > Mark each request form and specimen **URGENT** and clearly label with all client details. Include the facilities' name and in the clinical notes field write, 'increased cases of gastroenteritis observed in the facility'.
- > Some pathogens, such as norovirus, can also be detected in vomitus. The yield is better from faeces than vomitus, making it preferable to obtain a faecal specimen, however if obtaining a faecal specimen is not possible then a vomitus specimen can be taken instead.

PLEASE NOTE - If results are reported as positive for a notifiable gastrointestinal pathogen the treating doctor is legally required to notify CDCB on 1300 232 272 or via <https://extapps2.sahealth.sa.gov.au/CDCB-Notify/>

4. References

4.1. Guidelines and standards

- > [Guidelines for the Public Health Management of Gastroenteritis Outbreaks due to Norovirus or suspected Viral Agents in Australia](#). Communicable Diseases Network Australia. 2010.
- > Centers for Disease Control and Prevention MMRW. [Updated Norovirus Outbreak Management and Disease Prevention Guidelines](#). Vol. 60/No.3. March 4, 2011
- > Australian Commission in Safety and Quality in Healthcare. [Australian guidelines for the prevention and control of infection in healthcare](#). Canberra: Commonwealth of Australia.
- > Standards Australia [AS/NZS 4146:2024 Laundry Practice](#)
- > Australian Government [Aged Care Quality and Safety Commission Aged Care Standards](#).

4.2. Resources

- > Australian Government. Department of Social Services. [Gastro-Info – Gastroenteritis Kit for Aged Care including the Outbreak Coordinator's Handbook](#)
- > Australian Government Department of Health and Ageing [Gastro-Info Outbreak Coordinator's Handbook](#)
- > Posters and Information sheets, Communicable Disease Control Branch, Department of Health, Government of South Australia You've Got What? Prevention and Control of infectious and Notifiable diseases in Children and Adults. Available at <http://www.sahealth.sa.gov.au/youvegotwhat>
- > Control of Communicable Diseases Manual, David L. Heymann, Editor, American Public Health Association 21st edition 2022
- > [SA Health Cleaning Standards for Healthcare Facilities](#) 2021.

- > [SA Health Guideline to dilution for chlorine-based disinfectant solutions.](#)

5. Appendices

- > Appendix 1 Common Causes of Gastrointestinal Illness
- > Appendix 2 Gastroenteritis outbreak management guide
- > Appendix 3 Infection control measures checklist
- > Appendix 4 Alert notices and posters
- > Appendix 5 Forms and fact sheets

6. Document Ownership & History

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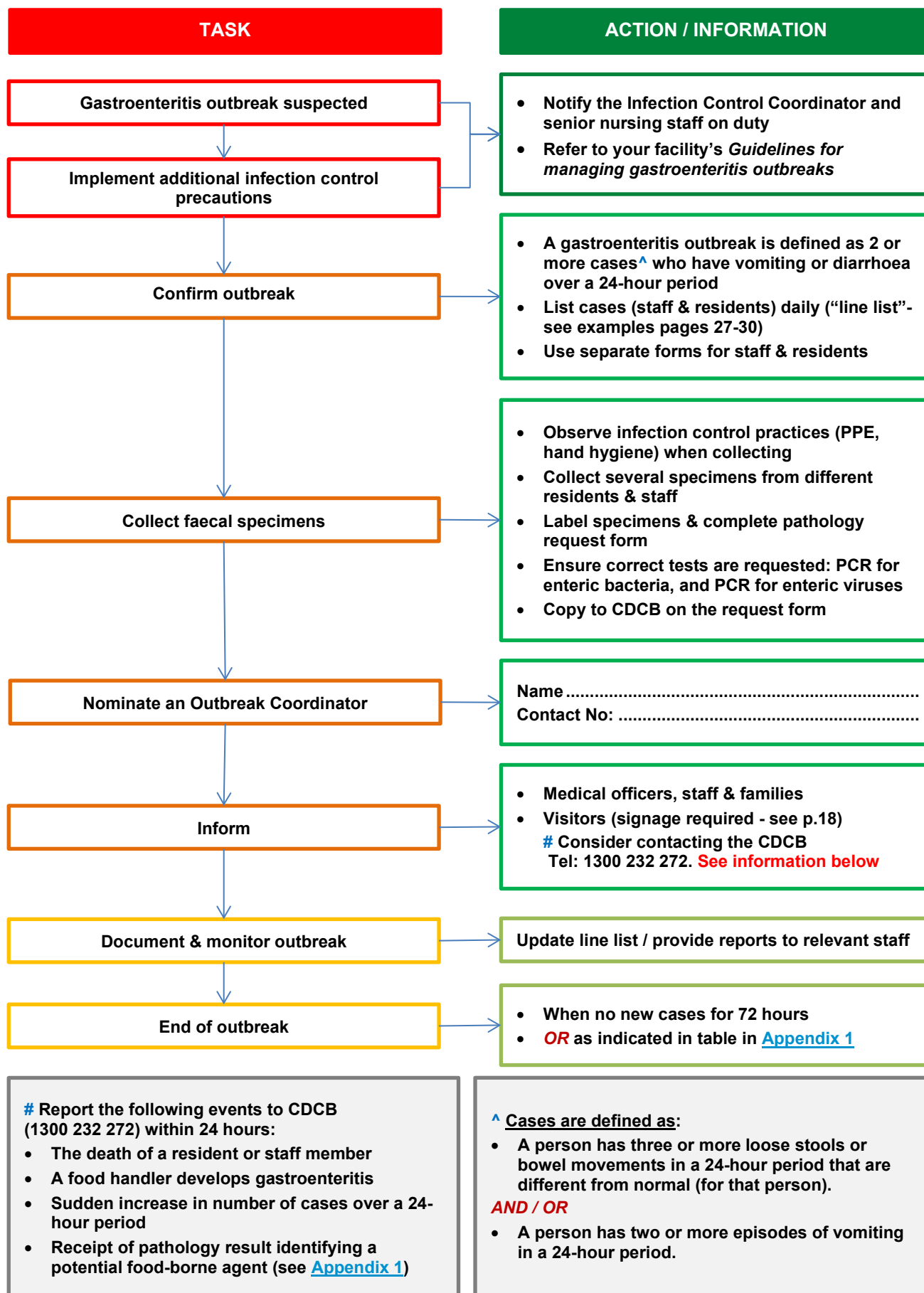
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Appendix 1 Common Causes of Gastrointestinal Illness

Note: Duration of illness may be extended depending on several factors, e.g. age, immuno-compromising conditions

Causative organism	Incubation period (time between becoming infected and developing symptoms)	Signs and symptoms	Typical duration of illness	Transmission	When is the outbreak over?
<i>Bacillus cereus</i>	1-16 hours	Nausea and vomiting, diarrhoea (may be bloody or mucous), fever, abdominal pain.	24 hours	Foodborne	<ul style="list-style-type: none"> Food source has been identified and/or eliminated No new cases in last 48 hours
<i>Campylobacter</i>	1-10 days	Diarrhoea (may be bloody), mild fever and stomach cramps. Vomiting not common.	2-14 days	Food or water borne; person to person (rarely)	<ul style="list-style-type: none"> Food or water source has been identified and/or eliminated No new cases for 3 weeks
<i>Clostridioides difficile</i>	2-3 days	Ranges from mild, self-limiting diarrhoea (may be bloody) to a serious form of the disease, known as pseudomembranous colitis. Vomiting not common.	Days to weeks	Faecal/oral	<ul style="list-style-type: none"> On advice from CDCB
<i>Clostridium perfringens</i> toxin	6-24 hours	Watery diarrhoea, nausea, abdominal cramps; vomiting and fever is rare.	24 hours	Foodborne	<ul style="list-style-type: none"> Food source has been identified and/or eliminated No new cases in last 48 hours
<i>Giardia</i>	3-25 days	May be a variety of symptoms including abdominal cramps, diarrhoea, excessive gas, fatigue, floating greasy stools.	May last for several weeks if not treated	Person to person; water borne; foodborne (rarely)	<ul style="list-style-type: none"> Water (or food) source has been identified and/or eliminated No new cases for 2 weeks
Norovirus (viral gastroenteritis)	12-48 hours	Nausea, vomiting, abdominal cramps watery large-volume diarrhoea, fever rare.	24-72 hours	Person to person; food or water borne	<ul style="list-style-type: none"> No new cases for 3 days (72 hours) after cessation of symptoms in last case
Rotavirus	24-72 hours	Vomiting, watery diarrhoea, low-grade fever. Infants and children, elderly, and immunocompromised are especially vulnerable.	3-7 days	Person to person	<ul style="list-style-type: none"> No new cases for 7 days
<i>Salmonella</i> spp.	6-72 hours	Diarrhoea (may be bloody), fever, abdominal cramps, nausea and vomiting, headache, loss of appetite.	4-7 days	Foodborne; person to person	<ul style="list-style-type: none"> Food source has been identified and/or eliminated No new cases for 3 weeks
<i>Shigella</i> spp.	1-7 days	Abdominal cramps, fever, vomiting and diarrhoea (may be bloody or mucous).	4-7 days	Person to person; foodborne	<ul style="list-style-type: none"> Food source has been identified and/or eliminated No new cases for 2 weeks
Shiga toxin producing <i>Escherichia coli</i> (STEC)	3- 8 days	Diarrhoea (may be bloody) abdominal cramps. Vomiting can occur but fever is rare. Young children and the elderly are especially vulnerable.	2-10days	Foodborne; person to person	<ul style="list-style-type: none"> Food source has been identified and/or eliminated No new cases for 2 weeks
<i>Staphylococcus aureus</i> (toxin)	1-8 hours	Sudden onset of severe nausea and vomiting, diarrhoea, abdominal cramps, and fever.	24-48 hours	Foodborne	<ul style="list-style-type: none"> Food source has been identified and/or eliminated No new cases for 12 hours

Appendix 2 Gastroenteritis outbreak management guide



Appendix 3 Infection prevention and control (IPC) measures checklist

The information as below is a brief overview guide only and the person or team managing the outbreak should refer to guidelines and internal policies and procedures. Consider the following actions as part of the Outbreak Management Plan.

- Inform all staff, visitors, and residents of the situation and what they need to do
- Ensure all staff with symptoms compatible with gastroenteritis are excluded from work until at least 24 hours* (or 48 hours for food handlers) after resolution of their symptoms
- *Ensure all staff with known or suspected norovirus are excluded from work until at least 48 hours after resolution of their symptoms
- Allocate dedicated staff to care for unwell residents, wherever possible
- Provide all staff with information and training in infection control precautions
- Ensure that all residents have their hands washed after going to the toilet, before meals, and after any episode of diarrhoea or vomiting
- Separate well residents from ill residents, wherever possible, for at least 48 hours after resolution of symptoms
- Increase the frequency of cleaning and disinfection of bathroom facilities and frequently touched surfaces
- Avoid transferring residents from affected areas to other institutions whilst cases of gastroenteritis are occurring, or, if a transfer is necessary, ensure receiving institution has been notified of the outbreak
- Post relevant signs at appropriate locations throughout the facility
- Request visitors who report any symptoms to avoid visiting at least 24 hours after symptoms cease
- Ensure all staff and visitors can access facilities and equipment to wash their hands before and after all resident contact
- Ensure sufficient soap and/or alcohol-based hand rubs or gels, and hand-drying facilities are available
- Provide sufficient gloves, gowns, aprons, masks, eye and/or face protection and ensure that they are easily accessible
- Ensure cleaning and other relevant staff are aware of the correct cleaning procedures and the importance of handwashing
- Ensure catering staff are aware of the precautions required in the food service area and the importance of handwashing
- Ensure all staff are aware of the precautions required when handling soiled items including linen
- Ensure laundry staff are aware of the correct laundering procedures and the importance of handwashing
- Advise staff on how to collect clinical specimens during an outbreak, refer to the [Appendix 3: CDNA Guidelines for the public health management of gastroenteritis outbreaks due to norovirus or suspected viral agents in Australia](#)

Appendix 4: Alert notices and posters

See examples of notices and posters on the following pages:

Notices

- > [Front door of facility alert](#)
- > [Staff alert](#)
- > [Visitor alert \(for entrance of facility\)](#)

Posters

- > [Visitor/contractor reporting](#)
- > [Hand washing poster \(general\)](#)
- > [Hand washing poster \(entering a room\)](#)
- > [Hand sanitiser poster](#)
- > [Designated restroom poster](#)

Example: Front door of facility alert notice



ATTENTION

Our facility currently is experiencing a gastroenteritis outbreak.

To protect yourself and others, please wash and dry your hands when entering and leaving the premises.

Thank you for your cooperation.

Example: Staff alert notice



ATTENTION STAFF

Our facility is currently has experiencing a gastroenteritis outbreak.

If you are unwell, please let your manager know immediately.

Stay away from work until at **least 24 hours** after symptoms have stopped (or longer as advised by your manager).

Thank you for your cooperation.

Example: Visitors alert notice

ATTENTION VISITORS



**We are experiencing
an outbreak.**

Please speak with a staff member
prior to your visit.

Seek advice about recommended
infection control precautions including
hand hygiene and Personal
Protective Equipment (PPE)

Example: Visitor/contractor visiting during gastroenteritis poster



**ALL
VISITORS
PLEASE
SIGN IN
HERE**

Thank you for your cooperation.

Example: Hand washing poster (general)

Please wash your hands



We are experiencing an outbreak.

To protect yourself and others please
wash and dry your hands thoroughly
and often.

Thank you for your cooperation.

Example: Hand washing poster (entering a room)



**Please wash your
hands
before and after
entering
the room**

Thank you for your cooperation.

Example: Hand sanitiser poster



Please use hand
sanitiser before and
after entering the room.
Thank you for your
cooperation.

Example: Designated bathroom facilities

This toilet/bathroom has been reserved for residents who are experiencing symptoms of gastroenteritis



Thank you for your cooperation.

Appendix 5: Forms and fact sheets

See supporting forms and fact sheets are on the following pages

Notices

- > [Resident outbreak register \(Line list\)](#)
- > [Staff outbreak register \(Line list\)](#)

Fact sheets

- > [Viral gastroenteritis frequently asked questions](#)
- > [Gastroenteritis visitor information sheet](#)

Gastroenteritis outbreak register: Resident line list recording of cases

[Please record the summary for monitoring progress of the outbreak and record keeping purposes]

Facility details

Facility name:

Address:

Facility contact

Facility manager:

Telephone: **Email:**

Outbreak details

Outbreak start date: / / **Form completion date:** / /

Name of unit / house / area	Type of unit	Total number of residents in unit
	<input type="checkbox"/> Low care <input type="checkbox"/> High care	
	<input type="checkbox"/> Low care <input type="checkbox"/> High care	
	<input type="checkbox"/> Low care <input type="checkbox"/> High care	
	<input type="checkbox"/> Low care <input type="checkbox"/> High care	
	<input type="checkbox"/> Low care <input type="checkbox"/> High care	
	<input type="checkbox"/> Low care <input type="checkbox"/> High care	

Please complete table below for all areas of your facility and send to:

Recording of unwell resident details on the next page

Gastroenteritis outbreak register: Staff line list recording of cases

[Please record the summary for monitoring progress of the outbreak and record keeping purposes]

Facility details

Facility name:

Address:

Facility contact

Facility manager:

Telephone: **Email:**

Outbreak details

Outbreak start date: / / **Form completion date:** / /

Staff category	Total number of staff currently employed in your facility	Staff category	Total number of staff currently employed in your facility
Registered nurse		Maintenance	
Enrolled nurse		Cleaner	
Carer/nurse assistant		Volunteer	
Agency staff		Other (<i>please specify</i>)	
Kitchen			

Please complete table below for all areas of your facility and send to:

Recording of unwell staff details on the next page

Frequently asked questions

Viral gastroenteritis

What is viral gastroenteritis?

- > Viral gastroenteritis is an infection of the bowel caused by one of a number of viruses (e.g., rotaviruses, astroviruses, adenoviruses and noroviruses).
- > Symptoms are usually mild including fever, nausea, vomiting, stomach cramps and diarrhoea lasting 1 or 2 days.
- > Spread is through contamination of hands, objects, or food with infected faeces. The virus is then taken in by the mouth. Viral gastroenteritis may also be spread through coughing and sneezing.

What are noroviruses?

- > Noroviruses are a group of viruses that can cause gastroenteritis. The illness can also be referred to as “winter vomiting”, “stomach flu”, “gastro”, “gastric flu” and “viral gastroenteritis”.
- > Other names historically used for noroviruses are “Norwalk-like viruses” (NLVs) or human caliciviruses or small round structured viruses (SRSVs).

Noroviruses are thought to be the most common cause of gastroenteritis in residential care facilities

What are the clinical features of norovirus infection?

- > Symptoms usually include nausea, vomiting, stomach cramps, and diarrhoea. General body aches, tiredness, headache, and mild fever can also be present.
- > Vomiting and diarrhoea generally last 1 to 2 days.
- > Laboratories can often detect the virus in a faecal (stool) specimen.

Where are noroviruses found?

- > Noroviruses are only found in humans.
- > All age groups can be affected.

How are noroviruses spread?

- > Noroviruses are easily spread from person to person.
- > Noroviruses are often associated with outbreaks that frequently occur in aged care homes, cruise ships and community settings. Single cases of the infection can also occur.
- > Spread is mainly through contact with vomitus (including air borne particles) or diarrhoea (faeces, stool) from an infected person. Hands, objects, or food can become contaminated, and the virus is then transferred to the mouth from the hands.
- > Food and drink may be contaminated by infected food handlers who do not practise good personal or hand hygiene.

What is the incubation period of norovirus infection (time between becoming infected and developing symptoms)?

- > Usually, 24 to 48 hours but can appear as early as 12 hours after exposure.

What is the infectious period (time during which an infected person can infect others)?

- > During the illness and for at least 24 hours after symptoms have disappeared.

Can a person who has had norovirus infection be re-infected? (Susceptibility)

- > Yes, it is likely that immunity or protection lasts only a few months therefore people may be repeatedly infected during a lifetime.

Do staff need to be excluded from work?

- > Yes, all staff with vomiting and/or diarrhoea should stay at home for at least 48 hours after vomiting and/or diarrhoea have ceased. If the person is a food handler, they should stay home for at least 48 hours.
- > If the gastroenteritis is known or suspected to be caused by norovirus, the exclusion period is 48 hours.

What measures should apply to infected residents and visitors?

- > Separate residents with symptoms from well people for the duration of the illness and for at least 24 hours until after vomiting and diarrhoea have ceased.
- > Relatives or friends with vomiting and/or diarrhoea should be advised to stay away from the aged care home for at least 24 hours after vomiting and diarrhoea have ceased.
- > Relatives and friends should be advised of the consequences of contact with an infected person, and a suggestion made to reschedule the visit.

What other measures prevent the spread of norovirus?

- > Practice good personal hygiene, especially frequent and thorough hand washing with soap and water.
- > Clean visibly contaminated environmental surfaces with a detergent and then disinfect with a household bleach product.
- > Handle soiled clothing with care and wash in detergent and hot water.
- > Observe safe food handling practices.

For more information

Communicable Disease Control Branch
Telephone: 1300 232 272
www.sahealth.sa.gov.au

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**Government
of South Australia**
SA Health

Fact sheet

Gastroenteritis

Visitor Information Sheet

Background

There have been several cases of gastroenteritis in this facility. We have implemented the Guidelines provided by SA Health to control any further spread of the disease.

Infection prevention and control measures

Staff have put several measures in place to minimise the impact of this outbreak, and some of these include:

- > special cleaning in some areas
- > the use of gloves and gowns
- > restricting some activities of affected residents
- > special staffing allocation
- > education.

The illness is self-limiting but, in the meantime, we are asking for your assistance to help us control and prevent further spread of the illness. You can help by following these basic instructions:

Please wash hands before and after visiting

This should be done in the following manner:

- > use an alcohol-based hand rub (if hands are visibly clean)

OR

- > wash hands for a minimum of 20 seconds, ensure all surface of the hands are thoroughly washed, use the soap provided, thoroughly rinse hands under running water, pat hands dry with paper towel, then discard, turn the taps off with a fresh paper towel, and then discard.

If you develop symptoms

If you experience any symptoms of gastroenteritis, we ask that you do not visit until at least 24 hours after your symptoms have resolved.

We appreciate your concern and cooperation regarding this problem; please feel free to discuss any queries you may have with facility staff.

For more information

Communicable Disease Control Branch

Telephone: 1300 232 272

www.sahealth.sa.gov.au

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Gastroenteritis outbreak management information for SA residential environments v2.4
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