





Guidar Le for Care Homes

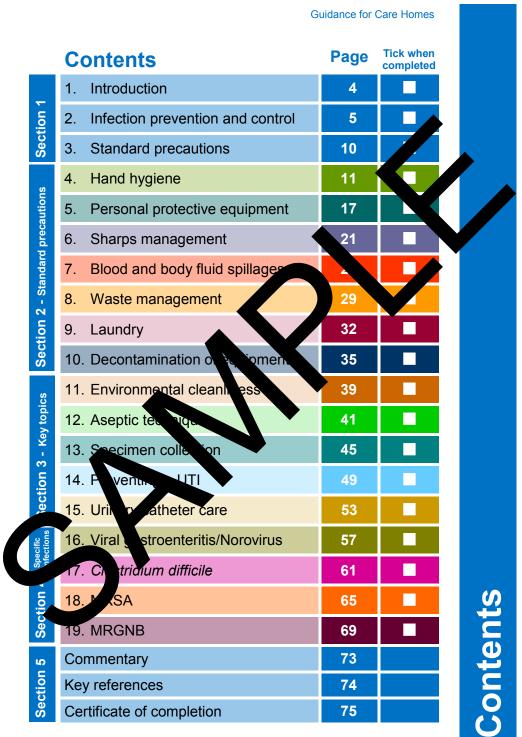
10th Edition





Name

Job Title



Preventing Infection Workbook

1. Introduction

As an NHS Community Infection Prevention and Control (IPC) Team based in North Yorkshire, our aim is to support care homes in promoting best practice in infection prevention and control unis Workbook complements a range of educational infection revention and control resources which can be viewed at www.infectionpreventioncontrol.co.uk.

This Workbook is intended to be the foundation for best prace for infection prevention and control. By apply the principles with Workbook, you will demonstrate commitment high quality care and unaccer ole for patient safety. The Francis Report ates a patient to be injured by contracting certain vpes c fer in as a result of the failure to apply modes of hyperne and interation control accepted by a specified standar petting ody, preferably NICE". ing in a care home, this The Workbook is aimed and staff but all figroups including includes not only clinical receptionists and cleaning tan

The Workborn on been designed the undertaken in stages. This will allow you to compare the next your knowledge' sections before moving on to the next section on completion, your manager will characterize the volume a new of 100% competency in your infection prevention compared to well and sign the 'Certificate of Comparison'. The well design the Workbook as evidence of learning and as a pro-going reference guide to provide you with easily accessible advice for day-to-day care of residents.

guidance. Completion of this Workbook also helps your organisation demonstrate compliance with the *Health and Social Care Act 2008* of the Care Quality Commission registration requirements in relation to infection prevention and control training.

Dr Jenny Child Director of Infection Prevention and Control/ Consultant Microbiologist Harrogate and District NHS Foundation Trust



3. Standard precautions

There are seven control measures known as 'Standard precautions' (see table below). These underpin routine safe practice and break the chain of infection which in the protects residents, visitors and staff. There is often no we of know g who is infected, so by applying standard precautions to residents and at all times, best practice becomes second nature and the risks of infection are minimised.

All care staff in all situations involving the care of residents or contact with the resident's environment, must use inferior prevention and control standary preclutions.

 In most cases, without a aborator dest, it is impossible to tell who has or is corving a pirection. Since every person is a potential infection risk, it is ssential that all staff apply safe systems of wor ing it even, opportunity.

 Safe worker practices take a guesswork out of protecting, visuand there as you provide care.

a. Ind previous

Hand hygiene Personal protective equipment Sharps management

Blood and body fluid spillages

Waste management

Laundry

Decontamination of equipment

4. Hand hygiene

Reside

Evidence and national guidance identifies that effective hand hygiene results in a significant reduction in the carriage of harmful micro-organisms (germs) on the hands. Effective hand hygiene decreases the incidence of healthcare associated infection (HCAI) leading to a reduction in prent morbidity (disease) and mortality (death).

Hand hygiene is the single most important way to prevent the spread of infection. Hands may look visibly than, but microorganisms are always present, some harmful, some not. Removal of transient micro-organisme is the most oportant factor in preventing them from being transferred to other.

Hands may become contaminated by direct contact with a resident, handling equipment and course with the general environment.

Hand hygiene refers to the process of hand-decontamination where there is physical removal of din, clood, body fluids and the removal or destruction. This process from the hands.

There are two categor in of micro-organisms present on the skin in the bands

Transient but a pare found on the surface of the skin. The are called 'transient' as they do not routine flive on the hands. They are transferred to hands a per contact with residents or the environment and receasily removed by routine handwashing with liquip soap and warm running water.

Pudent bacteria are found on the hands in the deep rayers and crevices and live on the skin of all people. They play an important role in protecting the skin from harmful bacteria and are not easily removed by routine handwashing with liquid soap and warm running water.

Glove selection guide		Sterile		Non-sterile		
Procedure and type of contact	Latex	Nitrile	Latex	'trile	Vin	 Domestic
Aseptic technique	✓	✓				
Blood/blood stained body fluids			\checkmark			
Body fluids, e.g. urine, faeces			✓	•		
Decontamination of equipment			✓	✓		
Domestic tasks					7	✓
Sorting soiled laundry			N	X	✓	
Urinary catheterisation	~	✓				
Urine drainage bag et being			✓	✓	✓	
Do not w∩ar glov∈ ; fc						
Feeding Sturts						
× Routine bed hking						
x inswe, the telephone						
× V V g records						

Anrons

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when ver there is a risk of exposure to blood and r body fluids, non-intact skin, mucous membranes or a known infection.



Aprons should also be worn when there is a risk of soiling to the front of uniforms or workwear and before an episode of direct 'hands on' care with a resident. Aprons should be disposed of as soon as the activity is completed.

Sharps containers

- Should be the correct size according to usage.
- Must be assembled correctly as per manufacturer's instructions, ensuring the lid is snapped firmly in place all around the rim to avoid spillage or injury.
- Must have the label dated and signed on as a pbly for traceability purposes.
- Must be located in a safe position that avoids spiller, and are at a height that allows the safe risposal of sharps. They should not be placed on the flor
- Must be away from public are used out, the reason of children, to avoid accider.
- Must have the lid temporary closure in position after each use, to prevent the lisk of subject.
- Should not be shaken in the custents pressed down to make room for more shaken or all apts to move or retrieve active from the shakes container.
- Must be do loss of when the fill line' is reached, to avoid sharps protrolog from the opening, or every 3 months if not full, he ccordance with NICE Guidance.
- Containe, consisting disposal should be stored in a secure location they hadst be locked, dated, signed and the location put on the label.

Must ly be used for the disposal of sharps.

The use of a needlestick or sharps injury nowchart is good practice.

For further details visit: www.infectionpreventioncontrol.co.uk.



Not

Guidance for Care Homes

Use of disinfectant

- Always use the appropriate personal protective equipment (PPE), e.g. disposable apron and gloves, and wear facial protection if there is a risk of splashing to the face.
- Some disinfectants supplied as tablets must be made up with the specified amount of water using a diluter bottle in order to achieve the correct concentration



- If the dilution of the chlorine-based, the fectal dis incorrect and a weak solution is used, any bood-barne view exhepatitis B, hepatitis C and His will not be killed. Note dilution is too strong, the equiption to rearfaces may be damaged.
- Diluted chlorine-based distriction statistics become less effective after 24 hours. We enablight the solution is made, the date and time and the recorded and the solution disposed of after the hour
- To ensure that micro inganisms are killed, always leave chloring by the disinfect of solutions for 5-10 minutes contact one or projectified on the container.
- Do not us a more based disinfectant solution directly on urine as pxic fumes will be released.
- *Charge-based disinfectants may damage soft furnishings and carpets. Detergent and warm water, carpet cleaning machine br steam cleaner, should be used.

Note

 Regularly check spillage kits, wipes and chlorine-based disinfectant products to ensure they are within the expiry date.

Waste stream guide note

* Colour waste streams may vary depending on waste contractors - check with your local contractor before implementing the waste stream guidance.

Note

- Waste bins should be foot pedal operated with a lid. Always use the foot operated mechanism to open the h prevent hand contamination.
- Waste bins in non-clinical areas, e.g. office should have a liner, but do not need to have a lid.
- Sharps containers awaiting collection should not here of a sinside a waste bag.

Remember

 Offensive/hygiene waste: it is instructed with urine, faeces, vomit, is in pus of would exudate, from residents with not isk to known or suspected infection.

Test your Howledg Please tick the prrect ar	True	False
When having tied bags only hold by the neck.		
waste om a resident with a known or susper id infection is 'offensive' waste.		
3. Waste bins in clinical areas and toilets should be foot operated with a lid.		
4. Clear or opaque waste bags can be used for domestic waste.		

Ce management (Standard precau

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A disinfectant product should be used that is bactericidal and virucidal for the disinfection of equipment that has been in contact with a resident with an infection, non-intact skin, body fluids or mucous membranes, e.g. areas the body producing mucus, such as inside of the norm or mouth.

Disinfectant products can be wipes, tablets or solutions, e.g. Clinell Universal Wipes, Chlor-Clean tablets, solution solution. Some of which are chlorine-based, e.g. Mark

If a chlorine-based disinfectant solution is used it should be at a dilution of 1,000 parts and pillion from).

Chlorine-based disinferrant solution 1,000 ppm available of prine

When to use	Our guipment of contact with an infected
1,000 ppm	respect non-sect skin, body fluids (not
	bloc) ou succus sembranes.

What to be solver hypechlorite 2%, e.g. Milton (as per filler of 1 in 20, e.g. 50ml of Milton in manufacturer 1 http://water).

If quiple entries contaginated with blood or blood stained flue a chromosocial disinfectant solution at a dilution of 10,0 0 arts per million (ppm) should be used.

Sport dal disinfectant

respents with *C. difficile* it is **extremely important** that a spricidal disinfectant is used, e.g. Milton, Chlor-clean, to clean equipment, as other non-sporicidal disinfectants will s ineffective at killing the bacteria.

3. Sterilisation

Sterilisation is a specialist means of decontamination of equipment. Items requiring sterilisation must be sent to an accredited Decontamination Services Department.

- Inserting an invasive device, e.g. urinary catheter.
- If a resident is immunosuppressed, diabetic or at high risk of infection.

Procedure for dressing a wound

- Be 'Bare Below the Elbows' and wash hands or use alcohol handrub.
- Decontaminate the dressing trolley with detergent and warm water or detergent wipes.
- Collect dressing pack and equation, cluck all iterative in date and packaging is inact. Phase on the bottom shelf of the dressing trolley.
- Put on a disposable aprox
- Loosen the adhesic tape of the existing dressing.
- Decontaminate hand ag
- Open structuressing mack. And any extra items without compromising the therite field.
- Put on non-stell gloves
- A monotone soiled pessing carefully, as a large amount of mono-orceant scan be shed into the air, and dispose of the transing appropriately.
- Remue gloves and decontaminate hands.
 - on terile gloves.
 - Perform the procedure, including cleaning of the skin dere applicable.
- Maintain a sterile field throughout the procedure.
- Dispose of all used items in a sealed bag and dispose of appropriately.
- Remove PPE and decontaminate hands.

Guidance for Care Homes

	Colours 1-3 suggest normal urine				
	 Clear to pale yellow urine suggests that you are well hydrated. 				
	 Light/transparent yellow urine suggests an ideal level of hydration. 				
	3. A darker yellow/pale honey coloured urine sugges that you may need to hydrate soon.				
Colours 4-8 suggest you need to rehydrate					
	4. A yellow, cloudier urine colour suggests that are ready for a drink.				
	5. A darker yellow urine suggest you an utarting become dehydrated.				
	6. Amber coloured urine is non-nealthy, your body really needs more liquid. All fluids count, a certaicohol).				
	 Orange/yellow urine these systems becoming severely dehydrated. 				
	8. If your urine is this dark dark, than this or red/ brown, it may not write to dehye ation. Leek advice from your GP.				

When to send a sp

For residents who are ver 65 years, consider sending a specimer in the are two to more symptoms of a UTI.

For cathet ised as the second second

ollection

I collect a ma-stream or 'clean catch' specimen. If the resident is catheterised a sample should be a more the sample port not from the drainage tap. Send a sample **before** starting antibiotics. Use a specimen container with



boric acid (red top) as it preserves bacterial numbers for up to 72 hours. Fill with urine to the 'fill line' on the container.

Note

- If a care home does not have a bed pan washer and a re-usable container is used for emptying the urine into, it should be washed with detergent and warm water aried thoroughly with paper towels and disinfected with a chlorine-based disinfectant solution (see page 36).
- Catheter straps should be used to secure the cather tube to the leg to prevent trauma to the urethra. En re the straps are positioned behind the tube on the leg ba

Remember

- When changing a cathetroog, to sevent contradination and infection, do not too by the encoof the catheter or tube.
- Night drainage bachare singulase.
- Wear a disposable on and groves when emptying a catheter or overnight transition base

Test your tool do Please tick the correct of swer	True	False
1. When expering a matheter bag the chinage 2, should not touch the inside of theory ainer.		
2 When removing a cap from a new catheter g the, the end of the catheter should n be touched.		
Night bags are re-usable.		
 An apron and gloves are not required when emptying a catheter bag. 		

2. Hand hygiene

- Liquid soap and warm running water should be used by staff as alcohol handrub is not effective at killing viral gastroenteritis.
- Handwashing facilities including liquid soap and paper towels should be available in each resident's room for staff to use
- Encourage residents to wash their hands or use detergreen and wipes to clean hands after using the toilet and before mean
- Visitors should wash hands on entering and leaving.

3. Isolation

- Where possible, infected residents should be call for in single room accommodation until symptom for the 8 hour. If the resident is unable to be isolated, end due to domentia, the should, where possible, ensure the resident' stands are tashed or detergent hand wipes are used the learn ands frequently.
- Disposable aprons and global should a worn when in direct contact with a resident who is should a worn when dealing with diarrhoea and vomit. PP should be removed, disposed of and hands washing of releaving the som.
- Affected care home can appen to new admissions when all the residents are (a) a apptorn at our 48 hours and (b) a deep clean an affected and ammunal areas has taken place.

4. Decontinination

It is essent for environmental cleaning to be undertaken ouring an or preak at least twice daily to include all communal iteme regular stouched by residents, e.g. hand rails, tables, our Krices. These should be wiped with a hypochlorite solution, e.g. Milton (see page 36). A fresh solution should be made sorry 24 hours.

- have symptoms and cleaned after each use with a chlorinebased disinfectant solution.
- Wash laundry from an infected resident as infected linen.
- Open windows to help remove the virus from the air.

17. Clostridium difficile

Clostridium difficile (C. difficile) is a spore-forming bacteria. It is an important cause of infectious diarrhoea. *C. difficile* is present in the bowel (gut) of 3-5% of people. Our 'good' bacteria (normal flora) keep the growth of *C. difficile* in check. However, when antibiotics are given for an interior, the antibiotics can kill off some of the good bacteria which leaves room for *C. difficile* to multiply rapidly. The rapid growth of *C. difficile* produces poisons (toxic) that cause inflammation of the bowel and diarrhoea. Diagnasis can be confirmed by laboratory testing of the antibiotics are be confirmed by laboratory testing of the antibiotics and the spore of the spore.

Risk factors for C. difficile

People most at risk of *C*. difficile a usure, those over the age of 65 years and who have had a user the following:

Recent antibiotic treatmen (which in 3 muths)

icile cause?

- Recent hospital dmissions
- Previous history
 Control
- Bowel surgery or lax ives
- Proton Run, inhibitor in Vication, such as omeprazole

What does d

may have bloch in it, abdominal pain or tenderness, fever. The nest can have serious consequences, including death.

How is **C** ifficile spread?

Outbreaks in care homes. It is spread mainly by:

- Contaminated hands of residents and staff
- Contaminated surfaces and equipment, C. difficile spores can survive on surfaces for months or even years



Preventing Infection Workbook

infection (bacteraemia). Signs of infection include fever, redness, pain and increased wound discharge. Urgent medical advice should be sought. If infection is present, antibiotic treatment will be prescribed and suppression treatment may be given.

MRSA screening

In accordance with Department of Health guidance or being is routinely undertaken by hospitals. Screening is not sually required in a care home.

If a MRSA positive result is diagnated after a resident was been discharged from hospitatione Growill be aformed, and if appropriate will prescribe suppression reatment

Suppression treatm

The aim of suppression atments to reduce the number of MRSA bacteria to a less that aful level.

Treatment to be consist of a blay course of an antibacterial betwww. as well as a nasal ointment. At the end of the 5 day curse, success to check for MRSA clearance are not shally required.

Management of Sident with MRSA

It is impound to refer to your local policy for guidance. To help reduce the spread of MRSA, standard precautions d always be followed together with the following four key principles:

1. mmunication	3. Isolation
z. Hand hygiene	4. Decontamination

1. Communication

There is no justification for refusing to admit residents with MRSA into any health and social care setting.

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