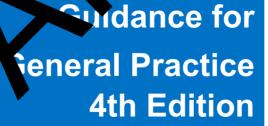




# Preventing Infection Workhook



**Name** 

**Job Title** 



		Contents	Page	sections to
		1. Introduction	4	
	nu 1	2. Infection prevention and control	5	
	Section 1	3. Standard infection control precautions and transmissions based precautions (SICPs and TBPs)	9	
		4. Hand hygiene		
		5. Patient placement and assessment for infection risk	17	
		6. Personal protective equipment	20	
		7. Respiratory and cough hygiene	25	
		8. Safe disposal of waste	27	
	rBPs	9. Safe management of blood and dy fluids		
	s and T	10. Safe management of care equiphent	32	
	Section 2 - SICPs and TBPs	11. Safe management of line sluding orms and workwear	38	
	ion 2	12. Safe management of sharps and sculation ajuries	36	
	Sec	13. Safe manage the care pviron and	42	
	- 8	14. Aseptic technique	45	
	Section 3 - Key topics	15. Sp. collection	49	
	Sec Key 1	16. Ven uncture	54	
	S	17. Clostic pick difficile	57	
	infec	48. MDROs cluding ESBL and CPO	61	
	ecific infec		65	
	4	20.PVL-	69	
	Section	21. Regaratory illnesses	72	
	Sec	22. Viral gastroenteritis/Norovirus	75	
	2	Commentary	77	
		Key references	78	
	Section	Certificate of completion	79	

#### 1. Introduction

As an NHS Community Infection Prevention and Control (IPC) Team based in North Yorkshire, our aim is to support General Practice in promoting best practice in infection prevention and control. This Workbook complements a range of educational infection prevention and control resources which the view at:

#### www.infectionpreventioncontrol.co.uk

This Workbook is intended to be the formulation for best pra for infection prevention and control. By a ving the principles within the Workbook you will dem te co mitment t quality care and patient safety. The He th and ncir Zare Act 2008: Code of Practice on preventil and con. (The ode of Practice). infections and related guidan v 201s res "Good infection Department of Health prevention and control rential ensure that people who use health and social care stavious receiverafe and effective care".

The Workbe specified at all star working in a General Practice, this includes in analyse at the clinical staff, but all staff groups including reception at an arrange staff and is designed to be unto the properties of the complete the 'Test yould now a requestion before moving on to the next section. On complete the 'Question's before moving on to the next section. On complete the 'Question's before moving on to the next section. On completion, you manager will check that you have achieved 100% speciency in your infection prevention and control knowledge and sign the 'Certificate of completion'. You should the porkbook as evidence of learning and as an on-going reference guide to provide you with easily accessible advice for day-to day care of patients.

Workbook is evidence-based using national guidance. Completion of this Workbook also helps your General Practice demonstrate compliance with *The Code of Practice* and Care Quality Commission registration requirements in relation to infection prevention and control training.

#### The chain of infection

**Organism:** Microorganisms, such as bacteria and viruses, e.g. Clostridioides difficile, MRSA, Norovirus

Reservoir: A reservoir for the microorganisms (where the infection somes from), such as people, animals, food, contaminated equipment of arfaces

**Portal of exit:** The way in which microorganisms leave the recroor, such as coughing, sneezing, diarrhoea, exudate (wound dischard), hands touching contaminated equipment or surfaces

Means of transmission: The way in which microorganisms are transmitted, such as hands, equipment, airborne, injection, ingest.

**Portal of entry:** The way in which microorgan, as enter the body, su urinary tract, exposed wounds, broken skin, need tick injury, mucous membranes, e.g. eyes, nose, mouth

People at risk: A person's suscert suity to injuration is described by their age, well-being, level of immunity of they have avasive described or any medical interventions

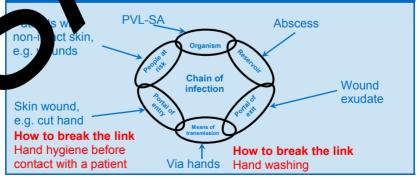
#### Chain of infection show L-SAs can be spread

#### Case study

Mr Green, a 19 year old rug, play has an abscess confirmed to be PVL-SA position. Practice it used to be seen the wound and does not wash her hand. It is eving a gloves and apron.

Her next patient is a rear old. White who has a cut on her hand. The stice Nurse trainits PVL-SA to her when applying a dressing. A week lates white refuse to the surgery with an abscess and substruently be used further abscesses over the next six months, which swall onfirms were PVL-SA positive.

#### Examp of how to break the chain of a PVL-SA infection



N

#### **Transmission based precautions**

In some circumstances, standard infection control precautions (SICPs) may not be sufficient to prevent transmission of specific infections. Therefore, additional transmission based precautions (TBPs) may also not to be taken.

The need for TBPs is based on the:

- Infectious agent that is confirmed or suspected
- Severity of illness
- Transmission route of the infectious ent (which may be more than one route)
- Procedures undertaken

TBPs are categorised by the allowing routes of transmission:

#### **Contact precautions**

Used to prevent and control in a tions to smitted via direct contact with the patient or indirectly from the patients immediate environment of equipment. The is the most common route of transmission of faction.

#### Dro t precaution

Use to present and consult infections transmitted over short distances (at least entre via droplets greater than 5 microns, i.e. 0.005 is like stre in size), from the respiratory tract of one person directly to a mucosal surface, e.g. eyes, nose, mouth, of another person. Toplets can penetrate the respiratory system to above the live or least. Droplets fall rapidly onto surfaces due to their weight.

#### Airbo ne precautions

to prevent and control infections transmitted without necessarily having close patient contact via aerosols (less than 5 microns), from the respiratory tract of one person directly onto a mucosal surface, e.g. eyes, nose, mouth, of another person. Aerosols can penetrate deeper than droplets, to the endpoint (alveoli). Unlike droplets, because the size is much smaller, aerosols can travel on air currents for potentially hours before they fall onto surfaces.

#### Hand cleaning methods

The use of liquid soap, warm running water and paper towels, is best practice. This removes dirt, organic matter, e.g. faeces, body fluids, and most transient, but not resident, microorganisms acquired through direct contact with a patient or the environ

With practice, routine hand hygiene should take at least seconds (see technique on page 15). Non-alcohol wipes . be used when it is not possible to perform handwashing visits without adequate handwashing facilities.

The use of an alcohol handrub (minimum \$0% alcohol) is an acceptable alternative to handwashing in hand situations, provide igh alcohol hands are not visibly dirty or soiled Apply e handrub to cover all surfaces usign -8 on de 15

#### Antiseptic hand hygiene

Liquid soap and warm water to alcohol handrub or the use exidine, removes transient as of an antibacterial solu e.g. c. well as resident microol ms. Th Nevel of hand hygiene should be used prior to minor su vasiv ocedures or if patients are immunosimpressed.

#### not effective? When is alco

- nen is alco he subs When hands the visible rty or soiled.
- saring for tients with viral e.g. Norovirus, or a spore stroen ing actend such as Clostridioides difficile.

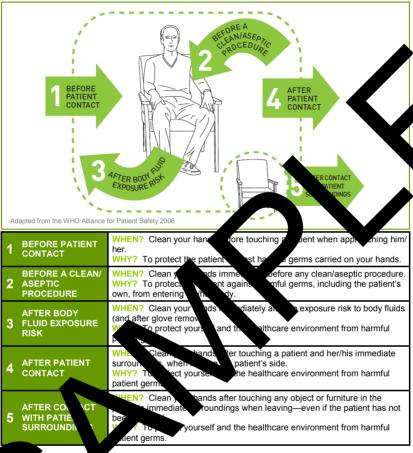


Always se liquid soap and warm running water for hand hygiene these occasions.

#### elow the Elbows

st practice to be 'Bare Below the Elbows' (BBE) to hate good hand hygiene when delivering direct care to patients. BBE has been adopted by the NHS. BBE is about exposing the forearms and being free from wrist and hand jewellery, including dermal piercings, (other than one plain band ring). Nails should be short, free from nail varnish, false or gel nails and nail jewellery. Long sleeves, if worn, should be rolled or pushed up to the elbows.

#### Your 5 moments for hand hygiene at the point of care



Other example of when hand hygiene should be performed:

- Wante and are visibly dirty or soiled
- Before the start of your shift and before you go home
- Pofer putting on and after removal of personal protective equipment (PPE) or domestic gloves
- Before and after having a coffee/tea/meal break
- After coughing, sneezing or blowing your nose
- After using the toilet

5.

of the patient. Documentation, e.g. Inter-Health and Social Care Infection Control Transfer Form or patient passport, should be completed with details of the patient's infectious status, e.g. confirmed risk, suspected risk or no known risk. The form should be given to any person providing further support or nursing/medical care. An Inter-Health and Social Care Infection Control Transfer Form is available to download at www.infectionpreventioncontrol.co

	fection Control Transfer Form
The Health and Social Care Act 2008: Code of Practice on guidance (Department of Health 2015), states that "suitable person concerned with providing further support or running developed to help you share information with other health the patient and, where possible, a copy filed in the patient?	s accurate information on infections be provided to imedical care in a timely fashion". This form has be and social care providers. The form should accome
Patient Name:	GP Name and contact details:
Address:	
NHS number	
Date of birth:	
Patient's current location:	1
Receiving facility, e.g., hospital ward, hospice:	
If transferred by ambulance, the service has been notified.	Yes D N3
Is the patient an infection risk: Please tick most appropriate box and give details of the confirme	for suspected consolers
Confirmed risk Organisms:	
Suspected risk Organisms:	
No known risk	
Patient exposed to others with infection, e.g., D&V, Influer	Die No 🗆 Unaw
If yes, please state:	
If yes, please state: If the patient has a dianhous! liness, please indicate bowe	
If yes, please state:	en, (based on Bristol I
If yes, please state: If the patient has a dianhous! liness, please indicate bowe	en, (based on Bristol I
If yes, please slate: If the patient has a dianhoeal liteas, please indicate bowe Form Scale): Is dianhoea thought to be of an infectious nature? Refevant specimen results if available	en, (based on Bristol I
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Fyes, please state  The galant has a Canthousi Biness, please indicate howe Form Scales, in distribute blooght to les of an infection notation?  Reference speciment institute analysis Specimen  College Report Report Litterature d'administration  In the patient aware of their diagnostations of infection?	vs. (based on Bried of New Control Brief of New Con
Fire, there sale:  Fire patient has a directional those, places included boxer Form Scaley.  Fire patient has a directional those places a violated boxer Form Scaley.  For patient has a direction or patient by the second of the patient by the second of the patient by the pati	vs. (based on Bried of New Control Brief of New Con
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If you please shells  The property has a destroyed to be of an indicate boom from Scale, to be otherwise booking to be of an indicate boom from Scale, to be one of the indicate and the indicate and indicate an indicate and indicate an	vs. (based on Bried of New Control Brief of New Con
If you have solde  Typ in price you are placed to be a proper to be a format limited to me from facility.  The price of the a format limited to be a price of the	vs. (based on Bried of New Control Brief of New Con
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#### Note

- Prior to transfer, always a tyre the any leaking wounds are covered with an appropriate dressing.
- A copy of the completed transfer ocumentation should be filed in the same motes.

	est year knowles e ase tick to conserswer	True	False
1.	Patient with sees inspections should be isolated recessionated room or area.		
2.	The isolation room/area requires cleaning infering after use.		
<b>.</b>	Fabric Irtains should be removed and laung ed and disposable curtains aced.		
4.	When transferring a patient to hospital, it is not necessary to inform the patient's infectious status to the ambulance service and hospital department.		

19

#### **Aprons**

Disposable aprons should be worn as single use items for one procedure or episode of patient care.

All healthcare facilities are recommended to adopt the national colour code for aprons, such as:

White	Clinical tasks, e.g. wound dressing	
Yellow	Cleaning of treatment and minor operation re-	
Blue	Cleaning of general areas, e.g. consulting rooms	
Red	Cleaning of sanitary areas	
Green	Cleaning of kitchen are	<b>)</b>

### Correct order for putting on and reving Person protective pment (PPE) Order for putting on PPE rder for removing PPE



Ensure you are the Below the Elbo hair is tied back. The your hands. Pull wron over your head and be albo of your waist.



Grasp the outside of the glove with opposite gloved hand, peel off, holding the removed glove in the gloved

hand. Slide the fingers of the ungloved and under the remaining glove at the wast and peel off. Discard. Clean hands.



Elastic d mask Position behind ears.

d masks: F ion aps on the crown wer straps the nape of your neck.



With both ands, mould the flexible band over the blace of your nose.



Break apron strap at the neck, allow the apron to fold down on itself. Break waste straps at your back and fold apron in on itself. Fold or roll into a bundle taking care not to touch the outside surface. Discard. Clean hands.



Holding the eye protection by the sides, place over your eyes.



Handle eye protection only by the headband or the sides. Discard disposable eye protection. Reusable eye protection must be decontaminated. Clean hands.



Put on gloves and extend to cover your wrists.



Elasticated masks: Pull loops over ears.
Tied masks: Untie or break lower straps followed by upper straps.

**Both masks:** Holding only by the loops or straps, discard. Clean hands.

16

#### 7. Respiratory and cough hygiene

Good respiratory and cough hygiene by everyone is essential to reduce the risk of spreading respiratory illnesses, e.g. COVID-19, flu, TB and more commonly, coughs and colds In vulnerable people, this can cause more severe illness ach as pneumonia.

Viruses such as measles and chickenpox are also transmitted through respiratory secretions.

Respiratory illnesses are spread by droplet has mission. When a person with a respiratory illness cough, a sneezes millions of viral or bacterial particles as a cough and contaminate the surfaces on which they land this can added hands and food.

The virus is spread from promoto-poton by an infected person sneezing or coughing at the virus lands on the mucous membranes of the eyes, have or houth, of a susceptible person

It can also be spread in a core direct route, such as hands and contact with contact nated so laces, e.g. door handle, touch sole so lossk, a person can then transfer the virus to their eyes, lose of buth.

Viruses are control to survive well in the environment, e.g. flurion to 24 hours, COVID-19 up to 72 hours.

#### Good and iratiny and cough hygiene

sneezing, ping or blowing the nose, staff, patients and virture ould:

- Have access to and use disposable tissues (not cloth handkerchiefs)
- Cover the nose and mouth with a disposable tissue when sneezing, coughing, wiping and blowing the nose

Waste stream guide for General Practice (continued)				
Colour *	Description			
Orange stream	Waste classified as infectious Waste contaminated with body fluids from a patient with a confirmed or suspected infection, but no contamination wi medicines or chemicals. Examples are: Contaminated PPE (gloves, aprons, etc.) Contaminated dressings that do not contain an active pharmaceutical Very small pieces of tissue Syringe bodies contaminated with body file medicines			
Purple stream	Waste classified as hazardous Waste consisting of, or contart atted with, cotoxic acceptostatic medicines. Examples are:			
	<ul> <li>Medicine containers with restance of cotoxic or cytostatic medicines (bottles, conton bags a syringe barrels)</li> <li>Items contaminated to har lotoxic a cytostatic medicines, e.g. swabs</li> <li>Used sharps from treath intus a cytotoxic or cytostatic medicine</li> </ul>			
Yellow and black stream	Waste classing as the site (non-hazardous) Waste from paties with he wan or suspected infection which the contaminate with body fluids. Examples are:  Nove cons  essings are the blood stained)  Entry n-medicated infusion bags			
stream	Wast classified as non-hazardous medicinal waste (non-cytoto), or cytostatic). Examples are:  quate medicines in original packages  It empty containers containing residues of medicines  hpty medicine bottles			
stream	ncludes items normally found in household waste. Examples are:  Newspapers Food waste Paper towels			

Notes:  $^{\star}$  Colour waste streams may vary depending on waste contractors - check with your local contractor before implementing the above guidance.

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#### 9. Safe management of blood and body fluids

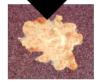
A spillage of blood or body fluids, e.g. urine, vomit, diarrhoea, may contain microorganisms and expose staff, patients and visitors to infection, so should be dealt with promptly. Staff dealing with spillages should wear appropriate personal protective equipment (PPE) and use standard infection introl precautions, including colour coded cleaning equipmer (see National Colour coding scheme on page 43).

#### Spillage kits

Always use the appropriate spillage kit for the type of spillage e.g. blood, urine or vomit.

#### Always ensure:

- The manufacturer's instruction are followed
- The spillage kit is in date as exped contents may not be effective



- The spillage kit is suitable by se on surfaces if required
- Waste is disposition in the liquid state (see page 29)

If the spillage kit is use vitable are se on a surface, e.g. soft furnishing carpet, cleans e surface with pH neutral detergent and water a surface carpet shampooer.

If a mop is sed, the head should be disposed of, the bucket wash duried, then disinfected with 1,000 ppm chlorine pased disinfectant and stored upside down to air dry.

Te k bwledge rect answer	True	False
1. It is prehecessary to deal with spillages of or body fluids promptly.		
Spillage kits with an expired date are effective.		
3. If a mop is used, after use the mop head should be disposed of.		

#### 10. Safe management of care equipment

Cleaning, disinfection and sterilisation is known as decontamination. Safe decontamination of reusable modical equipment and care equipment before its first use are after each use is an essential part of routine infection or afrol to prevent the transmission of infection.

There are 3 levels of decontamination				
1. Cleaning	Is a process which physically removes blood, body fluids and any microorganis.			
2. Disinfection	Is a process to remove of all pathogen (disease causing) microorga arms using an antimicrobin agent.			
3. Sterilisation	Is a process or the complete destruction or remove of all accorganisms.			

## 1. Cleaning - for item and on pact skin and non-infectious patients

Deterger cases or ph neutro detergent, warm water and single use atins a ballo be used for the cleaning of any reusable medical or call quipment, e.g. examination and pillow cases stethoscope, doppler, that has been in distance intacts in (for example skin which has no brooks, recizes at ts). Cleaning is essential before distance on or sterilisation is carried out.

2. Disinaction - follows cleaning, for items used on the inact skin, mucous membranes, body fluids, confirmed or suspected infectious patients. Prainfectants are not effective if dirt or visible soiling is present.

Disinfectants can be in the form of a wipe, e.g. Azo wipes, or as chlorine releasing tablets, such as Haztabs, Presept, or liquids.

Some disinfectant products are '2 in 1', which contain both

# 11. Safe management of linen, including uniforms and workwear

Best practice in General Practice settings is to use disposable paper products, e.g. paper towels, couch rolls, to prevent the spread of infection.

Linen or fabric items are not recommended for use as it is not practical to launder to between each patient. Couch roll should be used for modesty cover rather than a blanket

A new disposable couch roll seet shald be red cover couches and pillows after such patier use.

Pillows, if used, show the entire of an undamaged, sealed wipeable plastic covers. Indeed, minated after each use.

It is recommended that risplan ble covains and screens are used. They all do be changed a per local cleaning schedule or hanged, all it is is bly soiled, e.g. with blood, body fluids, dirt or star.

If far its stains or seens are used, they should be professional and dered as per local cleaning schedule or immediate, if visibly soiled.

## Washing uniforms or clothing worn at work

- Clange in and out of uniform at work, or completely cover iform when travelling to and from work
- Wear a clean uniform at the start of each shift and have enough uniforms to facilitate this
- Use personal protective equipment, e.g. disposable apron, to prevent contamination of uniform and workwear

# 12. Safe management of sharps and inoculation injuries

Sharps are items that could cause cuts or puncture worlds, including needles and sharp instruments. It is the responsibility of the user to dispose of sharps safe, into a sharps container.

#### Good practice to prevent a needlestick/sharps in

- Consider, where appropriate, using needle safety denotes to provide a safer system of working
- Never recap needles due to the hard risk injury.
- Dispose of the needle an syring as one unit into a sharps antaine.
- If it is necessary to see that the redle, great care must be taken, preferably using the levice on the sharps container.
- Sharps such the displaced on at the point of use by the person using the same
- ter pass use tharps from person-to-person as it is read the risk a injury.
- Re jest ssiste to when using sharps with reluctant or control patients.

#### Select the correct colour coded sharps containers

Purple lid with matching purple labelled container: for the disposal of sharps contaminated with cytotoxic and ostatic medicines, e.g. hormone and cancer drugs

Orange lid with matching orange labelled container: for the disposal of sharps **not** contaminated with medicines

Yellow lid with matching yellow labelled container: for the disposal of sharps contaminated with medicines

## Procedure following a splash or inoculation injury In the event of a splash injury to eyes, nose or mouth

 Rinse affected area thoroughly with copious amounts of running water.

#### In the event of a bite or skin contamination

1. Wash affected area with liquid soap and warm running water, chand cover with a waterproof dressing.

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**ORT IT** 

#### In the event of a needlestick/sharps injury

- 1. Encourage bleeding of the wound by squeezing under running water (do not suck the wound).
- Wash the wound with liquid soap and writing water and dry (do not scrub)
- 3. Cover the wound with a water of do sing. In all cases
- 4. Report the injury to your manager impediately.

# If the injury is caused a use of a por sharp of unknown origin, splash to non-it spekin of succous membrane or a bite has broken the skin

- 5. Immediately contact you GP Occupational Health department.

  Out of noting fice hours attend the nearest Emergency

  Department (2).
- 6. If you have had speedles or sharps injury from an item which en used on spatient (source), the doctor in charge of their case may be a blood ample from the patient to test for hepatitis B, spatific or a SV (following counselling and agreement of the stick).
- 7. At the Practice/Occupational Health/ED:
  - valuation ample will be taken from you to check your hepatitis B valuation/antibody levels and you will be offered im unoglobulin if they are low. The blood sample will be stored to all results are available from the patient's blood sample. If the source of the sharps injury is unknown, you will also have blood samples taken at 6, 12 and 24 weeks for hepatitis C and HIV
- If the patient (source) is confirmed or suspected to be HIV
  positive, you will be offered Post Exposure HIV Prophylaxis (PEP)
  treatment. This should ideally commence within 1 hour of the
  injury, but not recommended beyond 72 hours post exposure

# Red Sanitary areas including sinks in sanitary areas Green Kitchens Blue General areas, e.g. waiting/consulting rooms and sinks in general areas Yellow Treatment and minor operation rooms

- Cleaning cloths should be single use.
- Cleaning equipment should be stored clean, dried or leading dry after use and not left to soak overpight.
- Reusable mop heads should be replaced in planty depending on the frequency of use the last inverse visibly stained.

#### **Cleaning products**

When using cleaning products, always at the appropriate personal protective equipment (PPE), and disposable apronant gloves, and wear facial potentian if there is a risk of splashing to the face.

#### **Detergents**

Use pH neutral detergent, e.g. pec, and warm water and single us ploths or determined by the photosistic per single use ploths or determined by the photosis pec, and warm water and single use ploths or determined by the photosis pec, and warm water and single use ploths or determined by the pec.

#### **Disinfecta** ts

Disinfectan are of requed for routine cleaning.

treatment with patient who has a confirmed or suspected information, should also be used following contamination with proof or by fluids (refer to the 'Safe management of blood and body sids', page 31).

Cleaning is essential before disinfection is carried out, unless a '2-in-1'cleaning and disinfecting product is used.

Disinfectants which are virucidal and bactericidal should be used for disinfecting surfaces after dealing with a patient with a confirmed infection, e.g. MDRO, MRSA, or suspected viral

dress significant wounds that are less than 48 hours old, cavity wounds or wounds of patients who are significantly immunosuppressed, diabetic or at high risk of infection.

#### Aseptic technique competency

- Only staff trained and competent in an aseptic technical should undertake the procedure.
- An 'Aseptic technique competency assessment record and 'Aseptic technique procedure audit tool' for both urinary catheterisation and wound dressic should be completed on an annual basis. Available to wilload at www.infectionpreventioncontrol.com
- Training records and audit too should be available inspection.

Summary fo	. <b>''</b> S	
Description	Aseptic te uniq	Clean technique
Gloves	, Silve	Non-sterile
Dressings	Ste	Sterile
Cleansil solution	Sterile W. cer/	Tap water (drinking quality)

# 2023-10-31 Use by date, i.e. use by 31 October 2023 Do not reuse, Single use, use only once 2021-10 Date of manufacture, i.e. manufactured during October 2021 LOT ABC123 Batch code

#### 15. Specimen collection

A specimen is a sample of tissue, organ or body fluid, e.g. blood, urine, faeces, pus or sputum, taken from a patient for the purpose of analysis to identify microorganisms that caudisease and to provide medical direction for appropriate treatment.

All specimens are a potential infection risk to staff and shape be handled and transported safely. Therefore, all specimens must be collected using standard infection of trol precautions.

Microscopy, culture and sensitivities of C& Lis the roces on which microorganisms and their substituties are identical. Sometimes, specimens are obtained for mailtoring purposes, e.g. checking for blood and soney a second.

Specimens for MC&S should be taken if there are indications of a clinical infection (see table) page 51). This helps to reduce the set of inappropriate antibiotic prescribing.

Wherever possible, to take the specimen. As much relevant clinical information, e.g., amptoms, current antibiotic treatment to the travel as ad, should be included on the speciment rm to the speciment to the sp

#### Obtaining spaimens in the Practice or community

- Was and after specimen collection.
- Wear ar propriate personal protective equipment (PPE).
- Care should be taken not to contaminate the specimen, its outer container or label.
- Ensure the lid is securely closed and container placed in the plastic transport bag.



# 16. Venepunctu ? (K. · topic)

#### Remember

- Venepuncture poses a risk of infection to both the patient and staff member performing the procedure.
- Use safer sharps incorporating a protection mechanism, where possible.

#### It's a fact

In 2010 WHO highlighted the most da perous practices known to increase the risk of needlestic. Fiury and transmission of disease as being

- Recapping used needles sing two ands.
- Recapping and disassen ling value containing tubes and holders
- Reusing tourniquets in vacuus tube holders that may be contaminated with basten. and sometimes blood

_			
	Test your kn vleas	True	False
1	st one and answed to air dry prior to vell suncture.		
٠	Weal g gloves whilst undertaking repuncture reduces the risk of you a quiring a blood borne virus if you sustain needlestick injury during the procedure.		
(3)	Fabric tourniquets can harbour more microorganisms.		
4	When taking multiple blood samples from a patient, they can be taken in any order.		

#### 17. Clostridioides difficile

C. difficile is a bacteria that is present in the gut of around 66% of children and 3% - 5% of adults. Our 'good' bacteria (normal flora) keep the growth of C. difficile in check. However, wher antibiotics are given for an infection, the antibiotics can disc to the balance of bacteria in the gut and C. difficile can mustly rapidly producing toxins (poisons) that cause diarrhoea of inflammation of the bowel.

C. difficile produces microscopic spores, who are invisible to the naked eye, and are hard to kill, these are the passed in diarrhoea. The spores are resistant all, ving and heat and can survive in the environment for months and expears.

#### Risk factors for C. difficil

The risk factors associated with a ruiring a difficile are:

- Age: incidence such higher in the se aged over 65 years
- Underlying disease: the two chronic renal disease, underlying gastroints final contains and oncology patient
- Antibio ther stients who are receiving or recently received the stic treatment (within 3 months), especially boad-special um antibiotics
- Respectos tal stay: patients who are frequently in ospital who have had a lengthy stay in hospital
- Bowel urgery: those who have had bowel surgery
- Orner medication: patients receiving anti-ulcer medications, including antacids and proton pump inhibitors (PPIs), for treating reflux (heartburn and indigestion)
- Nasogastric tubes: patients with a nasogastric tube in situ





Multidrug-resistant organisms (MDROs) are microorganism that have become resistant to the drugs normally used to treat them. MDROs include bacteria, fungi, viruses are parasites, however this section will focus on bacteria of

Antimicrobial resistance is the ability of bacteria to resist the effects of antibiotics normally used to treat them, so the bacteria are not killed, this is known as 'antibiotic resistance'.

Antibiotic resistance makes infection and to be at. It makes increase the length of severity of illness the per at infection, adverse reactions (due to the negation use less safe alternative drugs), length of hospital drugsion and overall costs.

Numerous bacteria are normally and in a bowel. Not all are resistant to applications and not as will cause serious illness. Species of the ria commonly aund include Escherichia coli (E. C. 1), knowisch, Proteus, Pseudomonas Enterobarter and Acine Lacter. Collectively these bacteria are referrable. Gram-ne Live bacilli (GNB). These bacteria, under cere irreumstances, can become resistant to antibiotics are may require infection control management. The are referred to as multidrug-resistant organisms (MDROs), formerly known as multi-resistant Gram-negative bacteria (NROs).

Some MDT Ds contain beta-lactamases (extended spectral beta lactamases or ESBL's) which can destroy/inactivate even broad spectrum antibiotics, such as cefuroxime and cefotaxime.

Newer recently identified MDROs known as MDRO CPO (carbapenemase-producing organism), formerly known as CPE (carbapenemase-producing *Enterobacteriaceae*), are





#### Routes of transmission

MDROs can be spread by:

**Direct contact:** person-to-person, e.g. contact with an infected persons body fluids

**Indirect contact:** medical devices, care equipment or environment that has not been appropriately decontaminate

MDRO colonisation: means that MDRO is resent on or in the body without causing an infection. Colonis for with a MDRO may be long term

MDRO infection: means that the MDRO is desent of an in the body and is multiplying causin relinicatingns of infection, e.g. urine infection, pneumana, or several site infection

#### Management of a patient clock ad/inhated with a MDRO

- Always use standard infection could precautions (SICPs) and, where require transmission is sed precautions (TBPs) should be red of a rit transmission is particularly where the ris a presence of wound drainage, diarrholar frecal incompence. In these situations, there is increased por a lifer environmental contamination and subsequent risk of transmission.
- Patients all inding for a wound dressing, where possible, should be sureduled at the end of the session to allow the for invironmental cleaning and disinfection.
- A long seved fluid repellent gown should be worn if there of extensive splashing of body fluids to the uniform, e.g. dealing with an ileostomy.
- If the patient has attended for an examination or procedure, reusable devices, care equipment, the treatment couch and the immediate area, should be cleaned and disinfected (see sections 10 and 13).





bacteria. Colonisation may be long term and usually does not require antibiotic treatment.

#### **MRSA** infection

Usually occurs in health and social care settings and particularly in vulnerable patients. MRSA can caus infections ranging from wound infections to pnear onia an bacteraemia. Clinical infection occurs either from a prients own resident MRSA (if they are colonised) or by transaction from another person with MRSA. If infection is present, antibiotic treatment should be prescribe and suppression treatment considered.

#### **MRSA** screening

#### How to take a nasal swab r MR? screening



- Vision bands, only apron and non-sterile globs.
- Plact a few trops weither sterile 0.9% sodium chlory or sterile water onto the swabing one not to contaminate the swab.



- Place the up of the swab inside the nostril at angle shown.
- It is not necessary to insert the swab too far and the nostril.



- Gently rotate the swab ensuring it is touching the inside of the nostril.
- Repeat the process using the same swab for the other nostril.



- Place the swab into the container.
- Remove and dispose of gloves and apron and clean hands.
- Complete patient details on the container and specimen form. Request 'MRSA screening' under clinical details on the form.

recommended unless the patient is particularly vulnerable to infection, poses a special risk to others, e.g. healthcare worker, or spread of infection is continuing in close contacts.

 Communicate PVL-SA status to any receiving health social care providers (see page 19).

#### **Note**

 An advice sheet 'PVL-SA Information for pervice users' is available to download at www.infectionpreventioncontrol.co.

#### It's a fact

◆ Panton and Valentine w two a swho discovered this toxin which kills whith the discovered center (eukocytes), and is known as 'leucocidin'.

Test your know sas			False
1.	PVL- A dominantly guses skin and soft tis te interes		
2.	PVL-SA he d be suspected if a patient was had it current boils, abscesses, or there is a it tory of symptoms.		
	is present on or in the body without an infection.		
4.	Patients attending for a wound dressing, where possible, should be scheduled at the end of the session to allow time for environmental cleaning and disinfection.		



#### 21. Respiratory illnesses

Viral and bacterial infections can be transmitted by the respiratory tract in respiratory secretions.

Respiratory tract infections (RTIs) are mainly cause by viruses and can affect the upper respiratory tract or the low respiratory tract.

Upper respiratory tract infections (URTIs), e.g. sore to at, Rhinovirus (common cold), sinusitis, it volve the throat, or sinuses. usually get better without at treatment.

Lower respiratory tract infection (15.3), a pneuro dia, bronchitis, tuberculosis, involve the labe airway in the lungs.

Respiratory viral and acterial factions, which cause more serious illness include

- Influenza (flu) type. A, I.
- Human programmers and respiratory syncytial via (Re-
- mps and me les
- ◆ M cobac tuberculosis (TB) and Multidrug-resistant TE MP (B)
- ◆ SAF (Cov-2 (COVID-19) discovered in 2019, causing more virious illness in some people. For confirmed or specied cases, follow national IPC guidance

Res latory illnesses may all have similar symptoms ading runny nose, sore throat, cough, wheeze, lethargy, body aches and fever.

RTIs caused by bacteria, e.g. pneumonia, tuberculosis, usually require antibiotic treatment and in some cases, admission to hospital.

#### 22. Viral gastroenteritis/Norovirus

Viral gastroenteritis is usually caused by a virus known as Norovirus, other less common causes include Rotavirus and Sapovirus. The incubation period for viral gastroenteritis ranges from 24-48 hours, but cases can occur within 12 ours of exposure.

Viral gastroenteritis is highly infectious and can spread es from person-to-person, therefore, it is important to use standard infection control precautions.

#### What does viral gastroenteritis car Symptoms include:

- Sudden onset of vomiting with can be projectile
- Watery non-bloody diarri
- Abdominal cramps
- Nausea
- Headache, low grad fever



The illness asts 2.72 hours with no long term effects.

#### Pautes of the mission

Noroviruses a transmitted primarily through the faecel/oral route

ct: person-to-person, e.g. hands that have not been was a d thoroughly

Induced contact: medical devices, care equipment or environment, that has not been appropriately decontaminated. Faecally contaminated food or water

Also, via the droplet route: infectious droplets in vomit

#### **Key references**

Association of healthcare cleaning professionals (2013) Revised Healthcare Cleaning Manual

British Medical Association (May 2012) CQC Registration—What you need to know, Appendix B Policies and Protocols Guidance for GP

Care Quality Commission Homepage [online]

Department of Health (July 2015) The Health and Social Care Act 2008: Code of Particle on the prevention and control of infections and related guidance

Department of Health (2013) Health Technical Memorandum 07-01: Safe memorandum of health waste

Department of Health (January 2009) Clostridium difficile infection: How to deal we siblem

Department of Health (2008) HIV post-exposure prophylaxis: Guidance from the UK of Medical Officer's Export Advisory Group on AIDS

Department of Health (1998) Guidance for clinical healthcare vers: protection against infewith blood-borne viruses

Harrogate and District NHS Foundation Trust (July 20 Sommurity Section Prevention and Control Policies for General Practice

Health Protection Agency (November 2008) The ence on the gnosis and enterned of PVL-associated Staphylococcus aureus infection (VL-SA) in English d 2nd Edition

Healthcare Commission (October 2007) Internation into a preaks of Clostridium difficile at Maidstone and Tunbridge Wells NHC Trust

Terrence Higgins Trust [online]

Loveday HP, et al, epic3: National Later Based Granines for Preventing Healthcare-Associated Infections in NHS Hospitals in Englat Vol. of Hospital Section 86S1 (2014) S1–S70

Medicines and Healthcare Products Regulator, ency (Apr. 2015) Managing Medical Devices Guidance for health and social serves organizations

Mid Staffordshire No. 2002. Trust (v. 13) The Sport of the Mid Staffordshire NHS Foundation Trust Public Inquiry vo. 2: An experience and lessons learned (part 2), Chaired by Robert Francis QC 2013

Natio Audit Office [online]

Natio Ins. St. Health and Excellence (April 2016) Antimicrobial stewardship QS121

Nation: stitute for search Care Excellence (2012 updated 2017) Infection: prevention and control a galthcare ssocial fections in primary and community care Clinical Guideline 139

NHS Engl NHS Improvement (April 2021) National Standards of Healthcare Cleanliness 2021

Public Heal angland (June 2015) Toolkit for managing carbapenemase-producing Enterobacter are in non-acute and community settings

alth be and (2013, updated September 2021) Immunisation Against Infectious Disease (The Grant Book)

Royal Conge of Nursing (May 2018) Tools of the trade: RCN guidance for health care staff on glove use as the prevention of contact dermatitis

Proceedings of Nursing (February 2018) Freedom of Information Follow up Report on Management Waste in the NHS

Royal College of Nursing (November 2017) Essential practice for infection prevention and control Royal College of Nursing (April 2014) The Management of waste from health, social and personal care RCN guidance

Royal Marsden NHS Foundation Trust (March 2020) The Royal Marsden Hospital Manual of Clinical Nursing Procedure 10th Edition

WHO (2010) Guidelines on drawing blood: Best practices in phlebotomy



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