

Decontamination Policy

Version	V4
Name of responsible (ratifying) committee	Sentinel Board
Date ratified	01.10.2014
Document Manager (job title)	Strategic Director
Date issued	01.10.2014
Review date	October 2017 (unless requirements change)
Electronic location	Governance Policies
Related Procedural Documents	Infection Control
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For assurance that the most up to date policy is being used, staff should refer to the version held on the intranet	

Purpose

The purpose of the policy is to set out the decontamination procedures at Sentinel Healthcare South West CiC. The policy should be read in conjunction with the Infection Prevention and Control policy and the Waste Management Policy.

This policy is relevant to all employers and any one who works at Sentinel Healthcare South West CiC, including non-clinical staff. Individuals on training placements and visitors/observers on the premises must also adhere to this.

This policy will be monitored and reviewed annually by the Cleaning and Decontamination Lead.

Commitment of the organisation

Sentinel Healthcare South West CiC is committed to minimising the risk of infection, injury or contamination to staff, patients and others.

The CD lead for the organisation is: Dr Amanda Harry & Dr James Boorer

These individuals are responsible for the implementation of this policy.

DEFINITIONS

Cleaning

“Cleaning is the physical removal of infectious agents and the dirt and organic matter on which they thrive”. MHRA (2003). Cleaning removes up to 80% of micro-organisms and is an essential part of an infection control programme. Given that organic matter will inactivate disinfectants, all items must be cleaned before disinfection or sterilisation can be achieved.

Contamination

The soiling or pollution of inanimate objects or living material with harmful, potentially infectious or other unwanted material

Decontamination

The process of making a person, object, or environment free of micro-organisms, radioactivity, or other contaminant

Disinfection

Disinfection is the removal or destruction of adequate numbers of potentially harmful micro-organisms to allow the item to be handled or used safely

Sterilisation

Sterilisation is the total destruction and removal of all micro-organisms including spores. Prions are not destroyed in this process.

Medical Device

Any equipment used in the treatment, diagnosis and/or care of patients.

Single Use Items

These are items designated by the manufacturer as being suitable for one use on an individual patient only and then discarded. They must not be reprocessed (cleaned, disinfected or sterilised) for further use as this may damage the item and invalidate product liability. The reuse of single use items contravenes the Consumer Protection Act and will render the user liable to prosecution.

Single Patient Use

These items can be used for more than one episode on one patient only. The device will need to undergo some form of decontamination between each use. The manufacturer must state the number of times that the item can be reused prior to disposal.

POLICY

- 1) All medical devices and equipment used in healthcare environments may become contaminated with biological, chemical or radioactive material and thus can present a risk to patients, as well as to those subsequently handling or using them.
- 2) Inadequate decontamination has frequently been responsible for outbreaks of infection in health care establishments and can result in the transmission of a broad range of micro-organisms.
- 3) Safe and effective decontamination and handling of medical devices / equipment is essential in reducing the risk of cross infection.
- 4) Staff handling used medical devices and equipment should assume they are contaminated and take precautions to reduce the risk to themselves and others.
- 5) The whole process of decontamination should begin at purchasing and acquisition of health care equipment. It is essential to establish methods of decontamination at the earliest stage of acquisition. Suppliers have a responsibility to provide information on safe decontamination methods and chemical compatibility.
- 6) Any instrument which is required to be sterile should be single use only. Where this is not possible, it must be reprocessed by a licensed contractor. They must be transported in a suitable container and must not be rinsed prior to return.

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7) Accumulation of dust, dirt and liquid residues in the environment will increase infection risks and should be reduced to a minimum. This can be achieved by regular and thorough cleaning.

Relevant legislation and guidance

- 1) Health and Social Care Act (2008)
- 2) The Health and Safety at Work etc. Act (1974)
- 3) The Management of Health and Safety at Work Regulations
- 4) Control of Substances Hazardous to Health (COSHH) Regulations
- 5) The National Specifications for Cleanliness in the NHS (2010)

Training

All staff will receive infection prevention and control training as part of the induction and on an annual basis.

Procedures

Risk assessment for decontamination of medical devices

- 1) All equipment must be adequately decontaminated in between use and between patient use
- 2) Decontamination methods must be chosen according to the risk of infection associated with the use of a particular piece of equipment
- 3) Decontamination must always be carried out in accordance with this policy and with the manufacturers' instructions
- 4) Devices, which are not used on a regular basis, will still need to be cleaned
- 5) Equipment that cannot be adequately and safely decontaminated should not be purchased
- 6) Appropriate Personal Protective Equipment must be worn.
- 7) Thorough cleaning must always be the first step in the decontamination process.

Infection risk to patients from contact with an item of equipment

RISK	USE OF ITEM	MINIMUM DECONTAMINATION REQUIRED
High	<ul style="list-style-type: none"> In close contact with a break in the skin or mucous membrane For introduction into sterile body areas 	Single use item or sterilisation. To be carried out by registered contractors only
Medium	<ul style="list-style-type: none"> In contact with intact mucous membrane Contaminated with particularly virulent or readily transmissible organisms Prior to use on immunocompromised patients 	Thorough cleaning followed by disinfection
Low	<ul style="list-style-type: none"> Items in contact with healthy skin, or Not in direct contact with patient 	Thorough cleaning is usually adequate (disinfection if infection risk is present)

Stages of decontamination

1) Cleaning

- i) Thorough cleaning of the item with a general purpose neutral detergent and hot water
- ii) The item must be cleaned thoroughly using neutral detergent and hot water, rinsed and dried. Alternatively detergent wipes may be used. Where wipes are used the cleaning process must be as thorough as with neutral detergent and water.
- iii) Wipes must be disposed of in accordance with the organisations policy on waste management.

2) Disinfection

The most common method of disinfection is with liquid chemicals e.g. alcohol, chlorine-releasing agents.

Safe use of disinfectants

- i) When handling disinfectants wear appropriate protective clothing i.e. plastic aprons, gloves and goggles
- ii) Work in a well ventilated area with easy access to running water and eye wash solution
- iii) Staff handling disinfectants must be trained in their use
- iv) Disinfectants should be used and stored in compliance with the COSHH Regulations

Some bacteria can grow in disinfectants. To prevent this from happening the following should always be observed:

- i) Replace container caps securely after use
- ii) A sterile solution, once opened, should be regarded as non-sterile
- iii) The expiry date on each solution should be checked before use
- iv) Water must never be left standing in clean buckets, even if it contains a disinfectant
- v) All mop heads should be colour coded disposable or launderable, stored clean, with head upright
- vi) Partially full bottles of disinfectant should never be 'topped up'
- vii) Expiry dates should always be checked
- viii) Staff should report to their line manager immediately any suspected reactions to products used for decontamination. The manager will refer the staff member to Occupational Health.

If it is necessary to dilute a disinfectant, remember:

- i) They work best at the right dilution. Always follow the manufacturer's instructions
- ii) Diluted disinfectants rapidly become inactive, use the same day and dispose of any left over via the correct disposal route.
- iii) Always mix them in a clean separate vessel with fresh tap water
- iv) Always use personal protective equipment as appropriate

v) Products should never be decanted into an unlabelled bottle

Chlorine-releasing agents

Chlorine-releasing agents are relatively cheap and effective disinfectants which act by releasing available chlorine. They are rapidly effective against viruses, fungi, bacteria and most spores. They are particularly recommended for use where there is a hazard of viral infection, such as hepatitis B virus or HIV. However, chlorine-releasing agents are inactivated by organic matter. They should not be mixed with other chemicals, unless directed by the manufacturer.

i) Care is necessary with metals as chlorine is corrosive

ii) Hypochlorites such as Milton will lose their efficacy once opened and any remainder must be discarded.

iii) The concentration of hypochlorite solutions is expressed as parts per million of available chlorine.

Alcohol

i) Alcohol is available as a gel for hand decontamination.

ii) Alcohol has a variable efficacy against viruses and is ineffective against spores. (See hand hygiene policy)

iii) Ethyl alcohol 70% (ethanol) and 60% isopropyl alcohol (isopropanol) are both effective and rapidly acting disinfectants, with the advantage of evaporation, leaving the treated surface dry. However, they have poor penetrative powers, therefore must only be used on clean, dry surfaces.

Decontamination of items sent for repair, replacement or return

Those who inspect, service and repair or transport medical equipment have a right to expect that equipment has been appropriately decontaminated in order to remove or minimise the risk of infection. In order to comply with MHRA DB 2006(05) all such items must be accompanied by a declaration of contamination statement or decontamination form.

Environmental cleaning products

A neutral detergent and hot water, (made up to the dilution stated by the manufacturer) is recommended for general environmental cleaning. Where disinfection is required, then a chlorine releasing agent in the dilution of 1000 parts per million of available chlorine should be used. A COSHH assessment should be completed prior to use.

Maintaining good standards of environmental hygiene

1) Ensure clinical areas are visibly clean and free from clutter

- 2) A cleaning plan and schedule should be in place based on NPSA's "The National Specifications for Cleanliness in the NHS: Guidance on setting and measuring performance outcomes in primary care medical and dental premises (April 2010)
- 3) The cleaning schedule should be available in all areas and visible to staff and public.
- 4) The cleaning plan schedule must be monitored and evaluated regularly.
- 5) Staff should be trained in correct cleaning procedures and the use of cleaning products

Spillages

Sample leakages

If the leak is contained within a plastic hazard/specimen bag the bag should not be opened but should be inserted within another plastic bag, which should then be sealed and the whole disposed of in an approved sharps box.

If the leak is not contained within the bag and contaminates either the outside of the bag or external objects the following action is to be taken:

- 1) Using protective gloves, avoid any further contamination by containing the sample within another plastic bag.
- 2) Dispose of the entire protected sample within an approved sharps box.
- 3) Ensure hand washing

Body Fluid Spillages

Vomit can contain infective organisms and is thus a risk to personnel. Always assume that it is infected. Patients will usually have time to obtain a bowl or find their way to the toilet. Bowls should be emptied into a toilet and washed out immediately after being emptied. They should then be sterilised using an antiseptic solution.

Occasionally patients will vomit or deposit other bodily fluids on the floor or furnishings. In this event, scrape or blot up all excess soiling and dispose. The area will then need to be prepared for cleaning by applying the appropriate solution directly to the affected area with sprayer and blot with disposable towels or tissue. Repeat until there is no further improvement. Do not rub.

Clean the affected area with the supplied carpet cleaning equipment using the appropriate solution in the correct dilution.

Dispose of all towels or tissue as clinical waste.

Decontamination and disposal of Materials contaminated with biological substances

Clothes

Protective clothing (e.g. aprons) should be worn to avoid contamination whenever appropriate when contamination of clothes with biological material occurs:

- 1) Use gloves and a wipe to remove surplus material
- 2) If there is a risk to staff or patients then the individual should change into clean clothing
- 3) Take all soiled clothing home and wash or dry-clean immediately.
- 4) On rare occasions, items may need to be disposed of as clinical waste.

Linen

The disposal of soiled linen used by the organisation in the course of caring for patients will depend on the extent of soiling and the cause of the illness. In certain circumstances it may be decided to destroy linen if the risk to laundry personnel is too great. In this circumstance's destruction of the linen would be by incineration by double bagging in 'yellow bags' and sending with all other clinical waste.

A – Z of decontamination of equipment

This is not intended to be an exhaustive list of all items of medical equipment used within the organisation.

Please note the following points carefully

- 1) The manufacturer’s instructions must always be followed in regards to decontamination of a product. Where manufacturer’s decontamination instructions are unclear, or alternative disinfection agents to those described above are recommended, the Infection Prevention and Control Team should be contacted.
- 2) Items should always be cleaned before disinfection.
- 3) In the event of recommended one -stage disinfectants being unavailable, and where an item is used by an identified or suspected infected patient, decontaminate by thorough cleaning with a neutral detergent and hot water, or detergent wipe, followed by wiping with a solution of 1000 parts per million of available chlorine, unless contraindicated by manufacturers instructions.
- 4) Ensure items are decontaminated and dried before storage.
- 5) No local thermal reprocessing should take place. e.g. Autoclaving

Baby Changing Mat	Cover with paper roll Clean and disinfect	Change between each baby. Use wipes at the end of each clinic session, when visibly soiled and /or contaminated with bodily fluids
Baby Scales	As for changing mat	As above
Blood Glucose Monitoring Pen and Machine	Single patient use only – only use for one patient or alternatively, use single use retracting needles. Clean /disinfect	Wipes Between each patient
Blood pressure sphygmomanometer and cuff	Wipeable Clean and disinfect	Wipes After each patient
Carpets	Carpets should be avoided wherever possible in appropriate clinical areas (not including admin areas, waiting rooms or corridors). Carpets may be used in GP consulting	Daily When soiled

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	rooms Vacuum Shampoo Spillages of bodily fluid	
Crockery and Cutlery	Machine wash with rinse temperature above 80oC and air dry. Or hand wash in hot soapy water, using neutral detergent. Rinse and dry with a disposable paper towel.	After use
Curtain rails	Clean using a high damp dusting mop	Chlorine-releasing agent Daily, between patients Care must be taken not to scatter dust.
Chairs/Cushions	Frame and wipeable cushions Fabric chairs are not recommended due to the fact that they cannot be adequately decontaminated.	Chlorine-releasing agent or wipes. Cushions should be inspected regularly and discarded if damaged or evidence of strike through.
Cervical Diaphragms and Caps	Follow manufacturer's guidance. Single use only	
Doppler Ultrasound Probe	Remove gel from the probe after use with disposable paper towel. Then clean/ disinfect.	Wipes After each use
Dressing scissors	Use sterile disposable scissors for sterile procedures. Single use only.	
ECG Equipment leads Machine	Electrodes -Single use only Clean/ disinfect	Wipes or follow manufacturers instructions
Examination Couches	Cover with disposable paper roll. (Paper roll ideally should be attached to either a holder on couch or a wall-mounted dispenser). Avoid linen. Clean/disinfect	Change paper between each patient Wipes or Chlorine-releasing agent. At the end of each session, if visibly soiled or contaminated with bodily fluids, or after a patient with a known or suspected infection. (For blood or blood stained fluids see 9 above)
Mops and cloths for cleaning	Mops – should be colour coded and mop heads changed daily. Cloths- disposable	
Peak flow mouthpiece	Disposable - single patient use	Discard after use

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Pillows	<p>Always ensure that pillows are completely enclosed in an impermeable plastic cover with welded seams.</p> <p>On examination couches, the pillow clean/ disinfect</p>	<p>Wipes or Chlorine-releasing agent. At the end of each session and if visibly soiled.</p> <p>Wipes or Chlorine-releasing agent. When visibly dirty</p>
Pulse Oximeter	Clean/ disinfect	Wipes Between patients and at least weekly.
Specula (Vaginal)	Single use - discard into appropriate waste stream.	
Suction Equipment	<p>All new suction machines purchased must be of a type that uses disposable collection bottle liners. Change liner. Discard into appropriate waste bag.</p> <p>Accessories e.g. suction catheters – single use. Use once and discard into appropriate waste stream.</p> <p>Filters – disposable</p> <p>Tubing - single patient use</p>	<p>Wipes</p> <p>Daily when in use, or weekly.</p> <p>Change every three months or when wet or visibly soiled or as per manufacturers instructions.</p>
Tympanic thermometers	Disposable tips Thermometer - clean/disinfect	Change after each patient. Wipes daily and when visibly soiled
Toilet seats (raised)	Clean/ disinfect	Chlorine-releasing agent. Daily and more frequently if D&V/outbreaks.
Toys	<p>Soft toys and those made of wood are not recommended. Only plastic toys that are in good condition and easy to clean are suitable for the clinical environment.</p> <p>Clean/disinfect</p>	<p>Wipes</p> <p>At the end of each clinic or when visibly dirty. Those in waiting areas must be cleaned at least weekly and when soiled.</p>
"Vacutainer" Needle Holders	Single-Use – discard after each procedure.	
Vomit Bowls / Kidney Dishes	Single use only. Discard into macerator or dispose of contents into toilet and then dispose of receptacle in appropriate waste bag.	
Weighing scales (Clean/ disinfect	
Work surfaces	Clean/ disinfect	Chlorine-releasing agent or wipes Daily and when visibly dirty.