







Infection Prevention and Control A Foundation Course

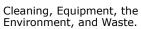












Audit in Primary Care M. Smiddy, UCC



Cleaning and Decontamination

Decontamination is the combination of processes (including cleaning, disinfection and sterilisation) used to render Reusable Invasive Medical Devices (RIMDs) safe for handling by staff and for use on patients.

Cleaning is the process that physically removes soiling, including large numbers of microorganisms and the organic material on which they grow. This is usually carried out using neutral detergent and warm water. Detergent wipes may be used provided they have not dried out.

Disinfection describes a process that eliminates many or all-pathogenic microorganisms from inanimate objects, with the exception of bacterial spores, e.g. disinfection of environmental surface with a sodium hypochlorite solution. **The use of disinfectant wippes is not advised.**

Sterilisation refers to a physical or chemical process that completely kills or destroys **all** forms of viable microorganisms from an object, including spores. This is usually carried out in an autoclave.





Environmental Cleaning

Environmental hygiene is essential to preventing healthcare-associated infection. Pathogenic organisms can survive for long periods in the environment.

The survival of MRSA in the environment h has been demonstrated by Wagenvoort (2000) to exceed one year.

Without adequate cleaning all healthcare environments provide an ideal reservoir for pathogens.





Environment

- Cleaning Schedule: who, what, how and when. Keep records of daily and weekly cleaning schedules.
- Colour Coding
 Area
 Colour Coding
 Area
 Colour Disposable Cloth
 Comeral areas including GP rooms, reception
 carea/offices & public areas.important to use
 new disposable cloth for wash hand basins (
 cave gram negative bacilli e.g. pseudomonas)
 : Blue
 Sanitary (toilets) & washroom floors, sluices:
 Red
- Be practical, remove clutter, safe storage of supplies, chemicals and equipment, washable surfaces (no fabric coverings, carpets).
- Be aware of "touch" areas.
- No need for disinfectant other than for blood / body fluid spillage or infectious patients.



Environment

- ✓ Designated person for cleaning environment
- ✓ Cleaning schedule
- ✓ Fixtures and fittings
- ✓ Toys



What is wrong here?



Chapter 9 2014 Guidelines page 34 - 38

Area	Recommended Method		
Wash with detergent and warm water. disinfection required use a chlorine-releasing yodium hypochlorite1000 ppm concentration in the control of the control o			
Regularly wash with detergent and warm water suspend on holder to dry. If grossly contaminated assess and dispose of accordingly.			
Buckets	Clean with warm water and detergent after use. Dry and store inverted. Equipment in contact with infective material should be cleaned and then disinfected with sodium hypochlorite solution.		
Not recommended in the clinical area. Carpets act reservoir for dust and microorganisms. They shou removed to maintain a safe environment.			
Ceilings	When visibly soiled, wash with detergent and water		
Curtains Should be laundered at least 6 monthly and w visibly soiled Dry Cleaning - Use a vacuum cleaner or dust-attrac mop. Sweeping brushes must not be used in clir			

Management of Blood and Body Fluid Spillages



✓ Blood and body fluid spillages should be dealt with immediately to reduce the risk of exposure.

✓All practices must have a written policy regarding the management of such spillages.

✓An appropriate spill kit must be available and stored in a designated accessible area

- Use a hazard / spillage sign to ensure safety of patients, visitors and staff.
- Don personal protective equipment: gloves and an apron and

Cover spillage with disinfectant solution (1,000 pm. Leave for the recommended contact time according to manufactures' instructions. Remove spillages using paper towels and place into a healthcare risk waste bag. Wipe area with disinfectant solution (2,000 pm. Leave for the contact time according to manufactures' instructions. Remove spillages using paper towels and place towels into healthcare risk waste bag. Wipe area with disinfectant solution (2,000 pm. Leave for the part of the part o

ensuring all traces of blood are removed.

Afte

Remove gloves and apron.

Perform hand hygiene as per the 5 moments for hand hygiene (WHO 2009)

Ensure the area is washed with detergent and water to remove all traces of the disinfectant.

Equipment - Single Use Only

Many items of equipment are "designated as single use only". This means the item can be used once only on a single patient and is then discarded. "Single Use Only" is denoted by the following symbol:



'A device designated for "single-use" must not be reused. It should only be used on an individual patient during a single procedure and then discarded' (MHRA, 2011)



Equipment	- Single	Patient	Use
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A medical device that is intended for single use means that the device may be used for more than one episode of use on one

The device can be reprocessed between each use as per manufacturer's instructions e.g. nebuliser tubing. Single patient should be used for one patient and not reused on a different individual under any circumstances.

patient only.





Equipment: What are Reusable Invasive Medical Devices?

"Reusable invasive medical devices (RIMD) include items such as scalpels and scissors are fundamental to all surgical procedures and many medical procedures.

Patients undergoing treatment have a right to expect that the RIMD used will be clean, free from infectious agents and in good working order" (Code of Practice for Decontamination of Reusable Invasive Medical Devices, 2007).

RIMDs are used in many healthcare activities including in general practice and dentistry.



Equipment: RIMD Management

 $\begin{tabular}{ll} \textbf{Multidisciplinary management} & of RMID's is essential to safety. This involves; \end{tabular}$

 production and revision of policies, procedures and guidelines with education and training regarding same;
 provision of a suitable environment for decontamination and storage;

 \bullet investigation of incidents and validation of the processes involved.

The management of RIMDs includes selection, specification and purchasing of the instruments, transport and storage, validation, maintenance and disposal. Involvement of maintenance, testing and validation of the decontamination systems involved is also essential.

Can this be achieved in Primary Care?



Decontamination: How do I risk assess?

Item, patient, risk of infection?

Risk	Application Recommendations Examples of Modevice			
Critical	Items in close contact with a break in the skin or mucous membrane or introduced Into a sterile body area	Requires sterilisation	Surgical instruments, needles for injection, stitch cutter, speculum used to insert an IUD	
Semi critical	Items in close contact with non intact skin or mucous membranes ⁷² or body fluids, particularly After use on infected patients or prior to use on immunocompromised patients	Requires high level disinfection (Sterilization preferred where practicable)	Speculum used for cervical smear, pessary and dlaphragm fitting ring, nasal speculum, ear speculum and ear syringe nozzle, endoscopes and thermometers (in contact with mucous membrane)	
Non- critical Items in contact with healthy skin but not mucous membranes 72.		Can be processed by cleaning (and low level disinfection where necessary)	Stethoscope, blood pressure cuffs, 24 hour BP monitor, examining table, baby scales, Doppler	



Equipment - Examples

Item	Risk	Method
Ear Piece for ear syringe	Non-critical	Single use disposable or as per manufacturer's instructions
Examination Couch	Non-critical	Cover with clean disposable towel and change after each patient. Clean with a neutral detergent or detergent wipe at regular intervals and after \uparrow risk procedures
Examination Couch after patient with known MRSA carriage and suspected norovirus	Non-critical	Clean and then disinfect with the appropriate dilution of a hypochlorite solution
Dressing scissors	Critical	Ideally disposable. Clean with detergent and water and sterilise in accordance with manufacturers instructions
Glucometer	Non-critical	As per manufacturers instructions

For more specific information access the 2014 guidelines for Primary Care Chapter 8 pages 28-33.



Clinical Waste

B0% of healthcare waste
 Includes the majority of waste and can be disposed of into a clear / black toag dependant on local policy.

Healthcare
Non-risk
Waste

Body of the disposed in this waste stream provided the source patient is not suspected of or infected with a transmissible disease.

Disposed of to landfill usually.

Healthcare Risk Waste 20% of healthcare waste

*Any waste which consists wholly or partly of human or animal
tissue, blood or other body fluids, excretions, drugs or other
pharmaceutical products, swabs or dressings, syringes, needles or
other sharp instruments, being waste which unless rendered safe
may prove hazardous to any person coming into contact with it*
(Controlled Waste Regulations 1992).

Disposed of via heat treatment and pulverisation prior to landfill or y incineration.

General Waste Storage and Management Guidelines

- Waste containers and bags must be UN approved to ensure a sufficient standard of quality.
- · Do not overfill bags or containers.
- All waste bags and containers must be stored out of public access in a locked
- All containers should be labelled with area specific details to ensure they are fully traceable to the area of origin.
- · All bags must be sealed securely prior to disposal

Responsibilities

All Personnel

- Il Personnel

 Ensure the safe disposal of waste they have generated according to
 "Segregation and Packaging of Healthcare Risk and Non-Risk Waste"

 Undertake training which should be provided for all those who generate,
 segregate, packaging, collect, transport and store waste.

 Ensure that waste is correctly and safely segregated and prepared for
 collection.

- General Practice Manager/GP

 Structures are in place so that waste is generated into the appropriate containers at the point of generation.

 Adequate supplies of approved bags/containers and individual tag ties are

 - available.

 Training is available for staff and staff are facilitated to attend.

 Measures are taken to correct hazards identified or breech of guidelines.
- Any incidents that occur in relation to waste are reviewed and appropriate action taken to prevent a recurrence in the future.

Confidential Material:

This is not Healthcare-risk waste but must be shredded prior to disposal in non-risk waste



What is Audit?

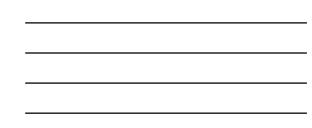
- An audit is a systematic method of examining current or past practices against agreed standards with the aim of improving practice through feedback of meaningful results to stakeholders.
- An audit is "a quality improvement process that seeks to improve patient care and outcomes through systematic review of care against explicit criteria and the implementation of change" (2002, NICE/CHI).



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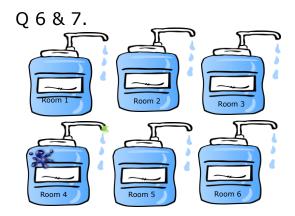
Stage 1: Preparation •What are you going to audit? •Why? ·Where and when is the audit being done? •How will you do the audit? **UCC** Stage 2: Criteria Selection •How are you going to do the audit? \bullet What tool are you going to TION PREVENTION AND CONTR FOR PRIMARY CARE IN IRELA • The tool MUST be based on Best Practice on best Practice recommendations / guidelines / legislation for Ireland e.g. Primary Care Infection Prevention and Control Guidelines http://www.hpsc.ie/A-Z/MicrobiologyAdminicrobialResistance/InfectionControlandHAI/Guidelines/File, 14612_en.pdf **UCC** Stage 3: Measure Level of Performance · How are you going to do the audit? • Audit of paperwork / documents? · Interview? • Environment? · Objects? · Knowledge? • People? Observational audit requires specific training to ensure quality and consistency of reported results. **UCC**

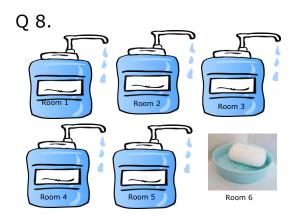
Stage 4: Making		
ImprovementsFeedback		
Consider how are you going to provide feedback?		
Who will you provide feedback to?		
Suggestions?		
	UCC Selection (Makes David, Str. par. Collaborate of Cinc. or Company	
Stage Five: Sustaining		
Improvements		
 Vital part of the audit cycle. Unless you have conducted the audit as part of your clinical work this will more than likely not be possible. 		
Feedback of the results with consequent re- auditing is the first step in this process		
Plan		
Act		
Study Deming 1990	UCC Search Codes Cod, by Ser College of Code of Consess	
Activity		
View the following images and assess compliance		
with Best Practice. The audit is structured under the following headings; 1. Hand Hygiene		
Waste Management		
Complete the audit tool provided		
Complete the audit tool provided.		
Complete the audit tool provided.		

SARI Infection Prevention and Control Audit tool Date: Practice:	
Practice Manager:	
Section 2: Hand Hygiene	
Standard: Systems are in place in order to facilitate performance of Hand Hygiene. Y N NA Comments	
There is a designated clinical hand hygiene sink in the clinical room (i.e. desiclated only for hand hygiene) and hygiene (i.e. desiclated only for hand hygiene) and is clean and itsert (check 2. Hand hyaine sith is clean and itsert (check)	
sealant, taps, splash back) 3. Hand hygiene sith meets the standard HTM 64 Sanitary assemblies (2006) Le. no plugs, no overflows, water from taps not directly situated	
There is a designated clinical hand hygiene sink in hygiene sink in hygiene (or own i.e., dedicated only for hand hygiene). Hand hygiene sink in clean and intact (orbeit). Hand hygiene sink meets the standard NTH 64 somethy assembles (1000) i.e. no play, no designated and the second of the seco	
Seap dispensers are in good working order Seap dispenser nozzles are clean Adequate amount of liquid handwarb soap is	
Depot seapleand not but seaply is available at all Depot seaple and in a savalable at all Depot depotence are in good working order Depot depotence are in good working order Depot depotence are clean Depot depotence are depotence Depotence are depotence are clean Depotence are depotence	
Towel dispenser is in good vorking order and adequate amount of disposable pages towels in a second or disposable page towels a smallell expensed indiced water bin for paper towels is a variable and in good working order. In a variable and in good working order.	
Hand hygiene poster is displayed at each sink Access to hand wash sink is not obstructed	
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Q 2,3,4.	
B 8 / 2	
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Q 5.







Q 9.	
Q 10 & 11.	
Q 12.	

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Q 13.



Q 14.



SARI	Infection	Prevention	and	Control	Audit	tool

١		
	Date:	Practice:
	Practice Manager:	Audit Undertaken By:

Answer Yes, No or Not applicable – please tick a box for all question

Section 5: Waste

That waste segregation and management is complies with The Segregation, Packaging and Storage guidelines for Healthcare risk waste (DOHC, 2010)

		Y	N	NA	Comments
1.	There is evidence that the practice waste policy is available and staff are aware of its contents				
2.	All clinical areas have foot operated bins				
3.	Foot operated bins are in working order				
4.	Clinical and household waste is correctly segregated	Г	Г		
5.	Yellow bags are used for disposal of clinical waste				
6.	There is evidence that risk waste bags are less than % full when closed				
7.	There is evidence that risk waste bags are closed using a "swan neck" method				
8.	There is evidence that risk waste bags are tagged for traceability				
9.	There is a dedicated area for the safe storage of clinical waste (inaccessible to the public)				
	The storage area is clean and there is evidence of a cleaning schedule	Г			
11	The storage area is cleaned immediately following a spill.				
	 Appropriate protective clothing is available for staff handling clinical waste bags. 				
13	. There is evidence that the waste contractor is registered with a valid licence	Г	П		

Q 2.	
Q 4.	

Q 8.



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Q 9.



Q 10.



Calculate % Compliance

- · Use a calculator.
- Divide the total number of correct or compliant answers and divide by the total number of questions asked. Example

- EXAMIPIE
 There were 7 compliant or correct answers out of 10.
 Divide 7 by 10 and x 100 = 70% compliance.
 Record and feedback the result. Indicate where there were problems e.g. sinks cluttered, difficult to access
- When you repeat the audit next time using the same audit tool, compare the results.
 Are they improved or poorer?
 Why?
 Why?
 What action should be taken?
 Use Audit Outcome Tool

Г		
-		



SARI IPC Audit Outcome Standard 1: Clinical Practice Standard: Practices will reflect infection prevention and control		
guidelines and reduce the risk of cross infection to patients, while providing appropriate protection to staff. Date:		
1. Summary of strengths evident from the Audit		
Improvements required evident from the audit Improvements required		
1. 2. 3.		
4.		
Signature of auditor: Date: Signature of practice manager: Date:	-	
Key Messages		
Ensure you have policies to cover Decontamination, Waste and Audit. Use the new Guidelines to support this.		
Record everything you do, including keeping cleaning records, this is essential for quality inspections.		
When you audit ensure you record it, feedback		
the results, make changes and re-audit. Keep all results and prove continuous quality improvement in your practice.		
	UCC Character of the control of	