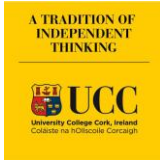




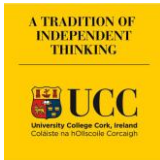
Infection Prevention and Control A Foundation Course 2014





Cleaning, Equipment, the Environment, and Waste.

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 wipes 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 has been demonstrated by Wagenvoort (2000) to exceed one year.

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



Staphylococcus aureus



Environment

• Cleaning Schedule: who, what, how and when. Keep records of daily and weekly cleaning schedules.

• Colour Coding

Area	Colour Disposable Cloth
General areas including GP rooms, reception areas/offices & public areas. Important to use new disposable cloth for wash hand basins (save gram negative bacilli e.g pseudomonas) : Blue	Blue
Sanitary (toilets) & washroom floors, sluices : Red	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?



Equipment - Single Patient Use

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 patient only.

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.



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

Multidisciplinary management of RIMD's is essential to safety. This involves;

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



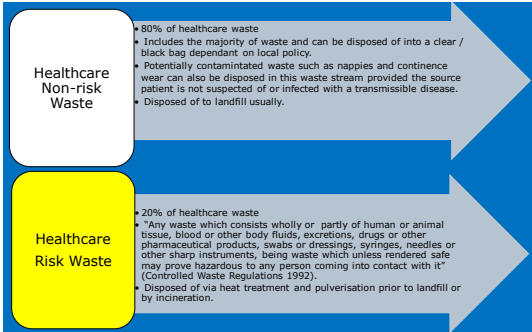
Equipment - Examples

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 ↑ 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



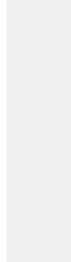
For more specific information access the 2014 guidelines for Primary Care Chapter 8 pages 28 – 33.

Clinical Waste



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 area.
- 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

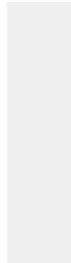
- Ensure the safe disposal of waste they have generated according to "Segregation and Packaging of Healthcare Risk and Non-Risk Waste"
- Undertake training which should be provided for all those who generate, segregate, packaging, collect, transport and store waste.
- Ensure that waste is correctly and 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 breach of guidelines.
- Any incidents that occur in relation to waste are reviewed and appropriate action taken to prevent a recurrence in the future.

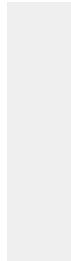
Confidential Material:

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).



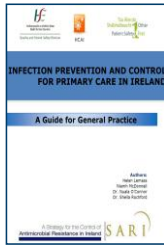
Stage 1: Preparation

- What are you going to audit?
- Why?
- Where and when is the audit being done?
- How will you do the audit?



Stage 2: Criteria Selection

- How are you going to do the audit?
 - What tool are you going to use?
 - The tool MUST be based on Best Practice recommendations / guidelines / legislation for Ireland e.g. Primary Care Infection Prevention and Control Guidelines



http://www.hpsc.ie/A-Z/Microbiology/AntimicrobialResistance/InfectionControlandHAI/Guidelines/File_14612_en.pdf



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.



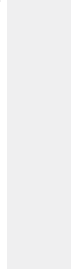
Stage 4: Making Improvements.....

.....**Feedback**

Consider how are you going to provide feedback?

Who will you provide feedback to?

Suggestions?

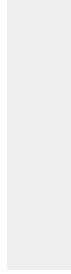


Stage Five: Sustaining Improvements

- 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



Deming 1990

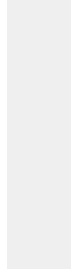


Activity

View the following images and assess compliance with Best Practice. The audit is structured under the following headings;

1. Hand Hygiene
2. Waste Management

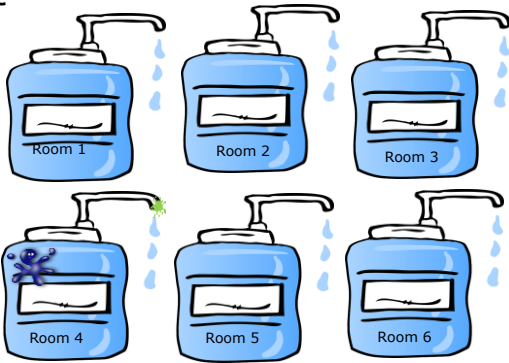
Complete the audit tool provided.



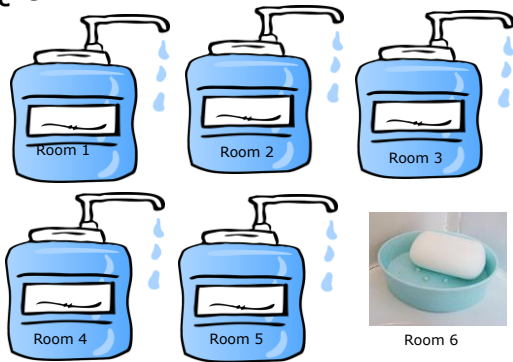
Q 5.



Q 6 & 7.



Q 8.



Q 9.



Q 10 & 11.



Q 12.



Q 13.



Q 14.



SARI Infection Prevention and Control Audit tool

Date: _____ Practice: _____
 Practice Manager: _____ Audit Undertaken By: _____

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

Section 5: Waste

Standard: *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				
5. Yellow bags are used for disposal of clinical waste				
6. There is evidence that risk waste bags are less than 3/4 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)				
10. The storage area is clean and there is evidence of a cleaning schedule				
11. The storage area is cleaned immediately following a spill				
12. 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				

Q 2.



Q 4.



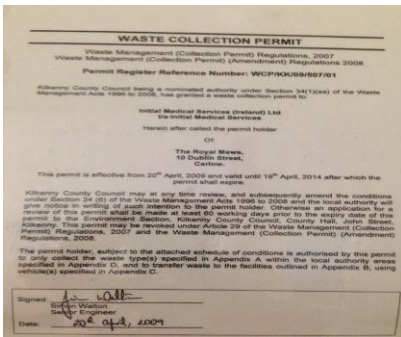
Q 8.



Q 9.



Q 10.

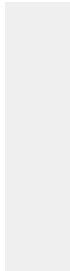


Calculate % Compliance

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

Example

- 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?
- What action should be taken?
- Use Audit Outcome Tool



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: _____ Auditor: _____

1. Summary of strengths evident from the Audit

2. Improvements required evident from the audit

Improvements required	Actions necessary for improvement
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.

