

Level 2 Certificate: Infection Prevention and Control (IPC) Lead <u>Module 2</u>

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Aim:

To gain further knowledge on the processing of instruments

Module 2 Objectives

Objectives

By the end of the module, students will be able to:

- Describe in detail the correct sterilisation process;
- Explain how to complete manual sterilisation;
- Demonstrate understanding of how to use the ultrasonic bath and washer disinfector;



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Module 2 Objectives

Objectives Continued

- Explain the process of bagging instruments effectively, working towards best practice;
- State how to correctly store instruments;
- Demonstrate the knowledge to set up a decontamination room;
- Create an Implementation and Improvements Plan.



Sterilization Process

All clinical members of staff should be aware of this.





Sterilization Process

Three ways of cleaning reusable dental instruments are:

- Washer Disinfector
- Manual cleaning combined with ultrasonic cleaning
- Manual Cleaning

Effectively cleaning before sterilization reduces the risk of transmitting diseases



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Sterilization Process

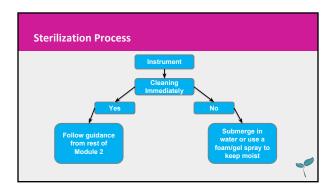
- When manual cleaning avoid using this as the only way of cleaning instruments
- Manual cleaning is preferably only used for emergencies

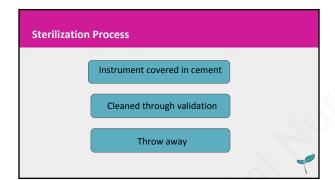


Sterilization Process	
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Validation: 'When the entire process is verified, tested and documented' All instruments should be cleaned using a validated process such as washer disinfector or ultrasonic bath.

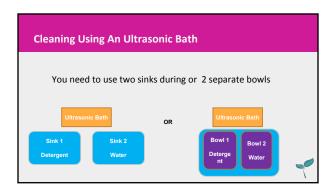
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Cleaning Using An Ultrasonic Bath Information on the Ultrasonic bath: Clean and free from debris Maintained by completing Foil test, Protein Test and Soil tests You can use ultrasonic bath before a washer disinfector Test the ultrasonic bath Instruments are in a fit for use state Instruments are dismantled and all hinges are opened

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Cleaning Using An Ultrasonic Bath Place all reusable instruments in cold water with detergent Leave to soak for a few minutes Handpieces are not to be submerged in water

Place in basket ensuring they are submerged, not overloaded or overlapped Never be place on the floor of the bath

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Process Continued • Close the lid to the bath and apply the timer Remove the basket and allow to drain **Process Continued** Inspect the instruments under a magnifying If debris present the cycle should be repeated • If free from debris they should be dried with a non lint cloth **Cleaning Using An Ultrasonic Bath** Put through the steriliser as soon as possible to avoid air-drying

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Ultrasonic Bath Errors Common errors with Ultrasonic baths: Sound - when the vibrating plate fails the noises will change. Hot after 1 or 2 cycles **Protein Test** Keep a record to prove completion If you have a washer disinfector this test should also be completed on that machine and recorded separately. As stated in HTM 01-05 this test is to be completed weekly by the user , quarterly and yearly by a competent person or engineer. **How To Complete The Protein Test** 3m Clean-Trace Protein Test Remove the swab and dampen with distilled water. Swab the instrument (tweezers, mouth mirror, scissors, XLA Forceps)

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How To Complete The Protein Test

- Place the pen back into the tube and press down so the bud end enters the fluid
- Collect your incubator and select the time and temperature.(
 55 degrees for 15 mins)
- When the incubator has reached the temperature a light will appear saying 'Insert Test' Place the 3M pen in and press start



How To Complete The Protein Test

- When the cycle has finished and the light says 'Finished' you can remove the pen and check the colour of the swab.
- If your test is green this is a pass, if However, it is purple or grey this is a fail
- All details should be recorded on the correct form and the test can be disregarded.



When a Test Fails

Methods of Cleaning

- Check that you haven't changed the detergent but not changed the level of dosage
- Have the instruments been over handled during testing
- The machine may in fact be broken and you may be required to contact an engineer to look at it



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When The Test Fails

Methods of testing

- Has the test past its expiry date
- How was the swab moistened (Tap water should never be used.)
- Gloves should always be worn when completing the test as this reduces the amount of contamination



Soil Test

- Quarterly and yearly basis by a competent person or engineer
- Manufacturer may state a weekly or monthly basis by the



How To Complete A Soil Test

- Place the Test Strip into the holder
- Place the holder into the machine
- Start a routine cycle



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How To Complete A Soil Test

- Inspect the test strip to see if the artificial soil has been removed
- If this fails you will need to re test and then enquire further assistance from an engineer.



Cleaning With A Washer Disinfector

A washer disinfector is designed to carry out the process of cleaning and disinfection. It uses 5 different stages to do this

- Flush
- Wash
- Rinse
- Thermal disinfection
- Drying



How To Use The Washer Disinfector

- Load the machine
- Open all hinges and joints
- Attach instruments to the irrigation system correctly were required.
- Inspect the instruments for wear or damage prior to sterilization



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Handpiece Maintenance

Kavo have suggested the following method to cleaning handpieces.

- Flush water through the handpiece for 20 seconds before removing it from the chair
- Remove the burr
- Place handpiece under running water and scrub with a long handled brush to remove all debris. Do not submerge in water!



Handpiece Maintenance

- Remove head from attachment if applicable
- Place into the lubricating nozzle and wrap a disposable cloth around the end to stop spray
- Purge the lubricant through the handpiece for 2 seconds until it is visibly expelled through the body



Handpiece Maintenance

- Connect the handpiece to an air source and purge for 30 seconds or alternatively leave to stand upright on a hand piece base to allow excess lubricant to drip
- Wipe away any excessive lubricant
- Place in the steriliser at 134 for 3 minutes



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Manual Cleaning Process

- Dirty to clean workflow to be maintained
- Two sinks or two bowls to be used one for cleaning and one for rinsing
- Separate setting down area for dirty instruments and for clean instruments



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Effectively Packaging Instruments

You should only be preparing the instruments for sterilisation after the following has been completed:

- Soaked prior to ultrasonic bath
- Ultrasonic bath/washer disinfector or both
- Checked through a magnifying glass
- Dried using a non lint cloth



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Effectively Packaging Instruments Non Vacuum steriliser Place all instruments on a perforated tray Select a cycle on the steriliser that reaches 134 degrees for the holding time of 3.5 minutes at pressure 2.2 Remove instruments from steriliser Effectively Packaging Instruments Non Vacuum steriliser Dry using a non linting cloth Clearly mark with the expiry date and users initials Sealed along the dotted line

Effectively Packaging Instruments

Vacuum steriliser

- Place an expiry date on the package of 1 year and your initials
- Dry and then pouch



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Effectively Packaging Instruments

Vacuum steriliser

- Seal the sterilisation pouch along the dotted line
- Not overlapped or overloaded
- Select a wrapped cycle which will reach 134 degrees for 3.5minutes with pressure bar of 2.2



Effectively Packaging Instruments



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Storing Instruments Wrapped Instruments Vacumed steriliser - 1 year Non Vacuumed (Packed immediately after cycle) - 1 Year **Storing Instruments** Unwrapped in a Clinical Area - 1 Day Dry Protected from contamination Not stored on open work surfaces Instruments repossessed at the end of the working day **Storing Instruments** Unwrapped in a Non Clinical Area - 1 week Dry Protected from contamination Not stored on open work surfaces System in place to ensure instruments do not exceed storage time

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Storage Area

- Strict rotation of stocks
- Easily cleanable cupboards used in conjunction with sealed pouches or covered/sealed trays
- Stored above floor level in a dry and cool environment
- Where possible the air flow should be from clean to dirty

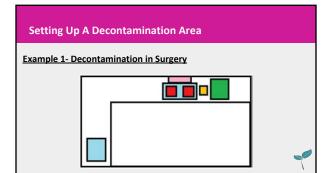


Setting Up A Decontamination Area

Decontamination process in surgery

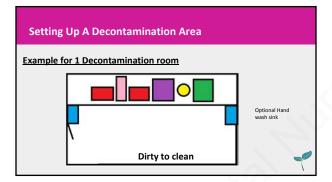
- No manual washing
- Not to use the ultrasonic bath without a lid
- Not to open the decontamination equipment

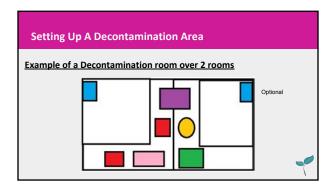




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Setting Up A Decontamination Area Two separate rooms One room for cleaning and inspecting One room for Inspection, sterilization and wrapping





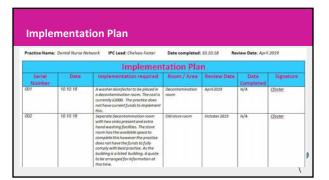
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Implementation And Improvement Plans HTM 01-05 states that we must use a Improvements plan and also an Implementation plan to show how we will achieve best practice. Improvements plan - Identify what we need to improve Implementation plan - Explain how we can Implement the

Improvement



improv	rovement Plan					
ractice Name: Den	ital Nurse Network	IPC Lead: Chelsea Foster Date co	mpleted: 10.10.18	Review Date: A _j	oril 2019	
		Improvements	Plan			
Serial Number	Date	Improvement Identified and Reason	Room / Area	Review Date	Signature	
101	10.10.18	Instrument Cleaning with a validated washer disinfector	Decontamination	April 2019	Cfester	
02	10.10.18	Separate Decontamination room with two sinks present and extra hand washing facilities	Old store room	October 2019	Cfoster	
103	21.11.18	Separate instrument storage room	Notknown	November 2019	Cfoster	



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Summary
Sterilisation Process
Manual Sterilisation
Ultrasonic Bath and Washer-disinfector
Bagging and Storing of Instruments
Setting up a Decontamination Area

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