Sharing on UK hospital visit CSSD & Endoscopy cleaning unit

Ms. Jane Leung 17 Nov 2010

HPA: Engineering Aspects of Infection Control



UK- Eastwood park training centre

Topic: Decontamination & CSSD visit







Decontamination

= cleaning

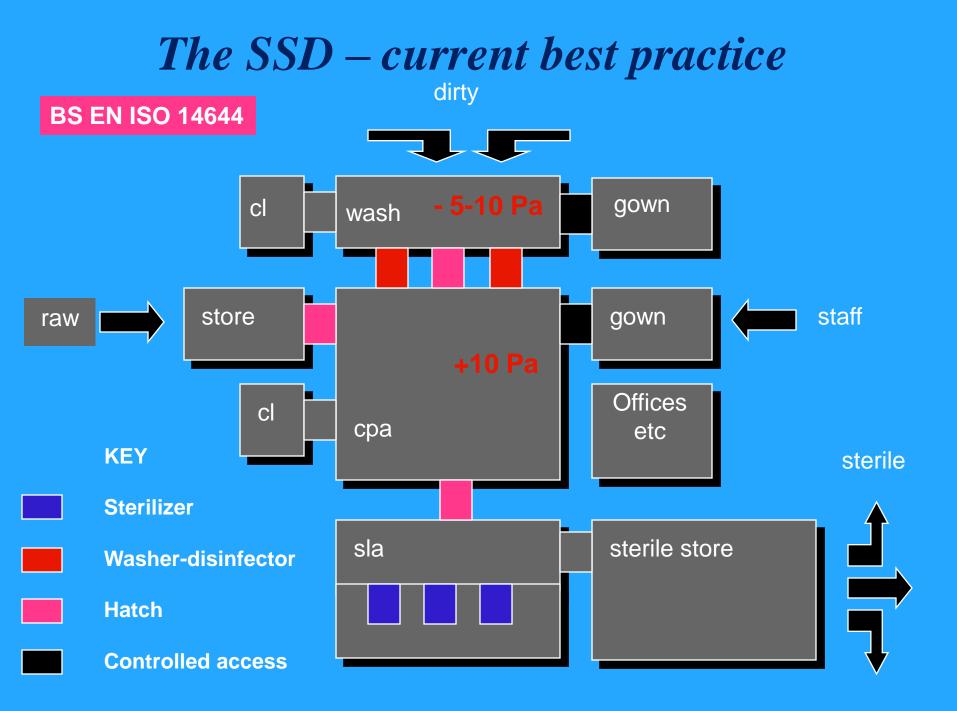
+ disinfection

+ sterilization

Decontamination no longer refers to cleaning only



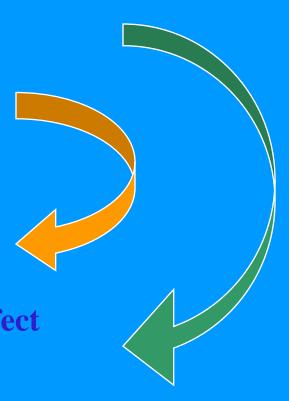




The washer-disinfector

Washer-disinfectors can be:

Thermal Chemical Ultrasonic) Manual) And can: Clean only Disinfect only Clean and disinfect



Classification of washer-disinfectors

by nature of load to be processed Clinical WD

-Human waste containers
 -Surgical instruments
 -Endoscopes
 -Dishwashers
 Aboratory WD
 -Laboratory equipment

-Pharmaceutical equipment



Human-waste	Instruments	Holloware	Anaesthetic	Endoscope	Laboratory	Ultrasonic
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Empty Leak test Flush Flow test Wash Rinse Dry Disinfect Rinse Cool Dry

The washer-disinfector

The washer/disinfector must: clean instruments disinfect instruments dry instruments clean and disinfect itself fully drain between cycles not contaminate the operator environment not damage the instruments

Time/temperature relationships

BS 2745:

HTM 2030:

EN 15883

71 C for 3 mins 80 C for 1 min 90 C for 1 sec 65-70 C for 10 mins 73-78 C for 3 mins 80-85 C for 1 min 90-95 C for 12 secs Ao of 600





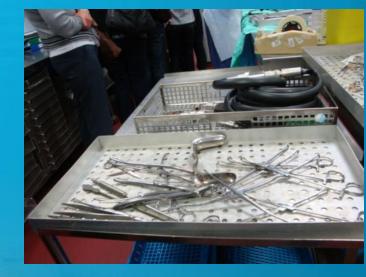
Royal Gwent Hospital SSD

Cleaning area: PPE & HH facilities



Cleaning area: Used instruments & equipments





Wards / OT Instruments



OPD

Instruments



Cleaning area: Washer-disinfectors







Sterilizer loading area





Sterile store & items



Hospital visit: Chelsea & Westminster Hospital





Dr Berge Azadian, Director of Infection Prevention & Control

Roz Wallis (Nurse Consultant, Infection Control)

Sterile Services Department (SSD)

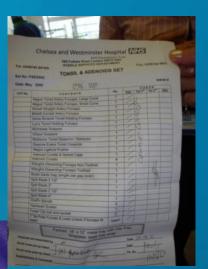


Implemented a Quality Management System ISO 13485:2003 for processing of Medical Devices Since 2004.

Expansion to accommodate Centralized Endoscope Decontamination Unit, open in 2008 Cleaning area:



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Checking: Used & non-used instruments





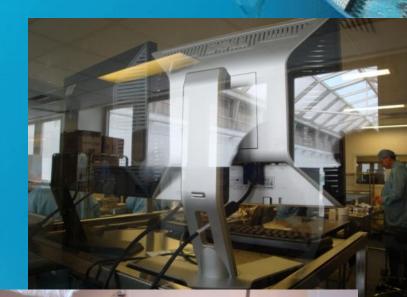


Central packing area



Central packing area







Sterilizer loading area







Sterile store & items







Endoscope Decontamination Unit



Used endoscopes Record in tracer system



Record in tracer system





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BSG Guidelines

Thorough manual cleaning with a compatible enzymatic detergent, including the brushing and flushing all accessible channels, must be undertaken before automatic endoscope decontamination.....

BSG: British Society of Gastroenterology

Manual cleaning

- At point of use air/water channel
 External surface
 Suction channel
- At the sink in dedicated decontamination room
- Single use brushes for cleaning
- ♦ Ensure
- Access all channels (used or not used), e.g. forceps raiser channel, auxiliary water channel
- Irrigate all channels that cannot be brush

Manual cleaning

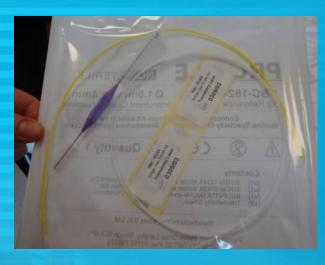
Follow manufacturer instructions

(Users should seek advice from manufacturer for most suitable method of decontamination)

• By Trained staff







Single use brush



Leak test





Endoscope WD







Endoscope WD operating cycle

- Leak test
- Flushing <35 °C
 - (to minimize the coagulation of protein)
- Flow test
- Washing with detergent
- Rinsing to remove detergent residues
- Drying
- Chemical disinfection
- Rinsing
- Drying

Load handling equipments



Endoscopes and accessories











Clean area & Store







Different types of fibre-optic endoscopes



Dry by compress air

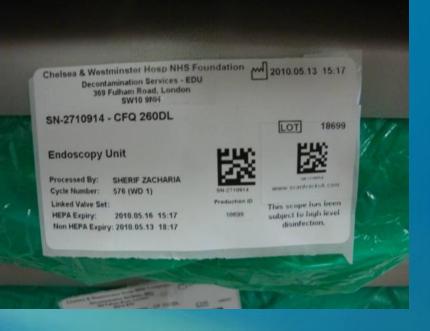






Endoscopes ready for use







•Tracing of the decontamination cycle, personnel and patient is undertaken using manual or electronic methods

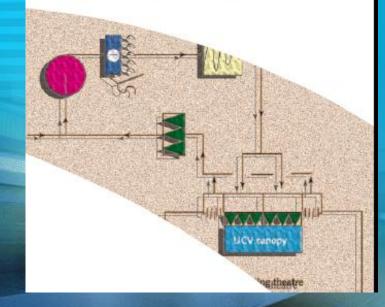
•Each endoscope has a unique identification no.

•Valves and removable parts are kept with endoscope to confirm a unique set of equipment



Heating and ventilation systems Health Technical Memorandum 03-01: Specialised ventilation for healthcare premises

Part A: Design and validation



Recommended Air-change rates

Application	Ventilation	AC/hr	Pressure (Pascals)	Supply filter	Noise (NR)	Temp (°C)	Comments (for further information see Chapter 6)
Endoscopy room	S	15	+ve	F7	40	18–25	
Endoscopy cleaning	E	>10	-ve	-	40	-	

