

DGSV

Deutsche Gesellschaft für Sterilgutversorgung e.V.

WORLD CO

GENTED Disinfection Systems of Semi-Critical Probes

Dr Sulisti Holmes

Who's interested in patient safety?



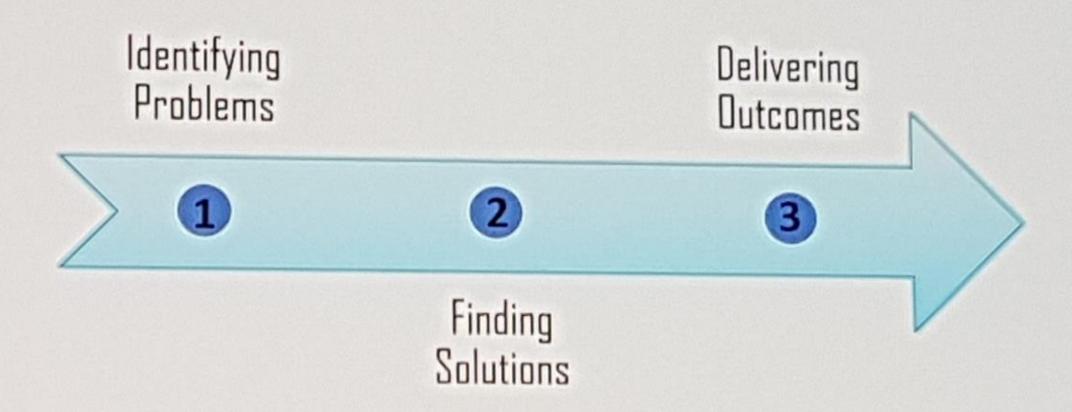
8.1.4. At the time of the surgical procedures in this incident, there were

NO NATIONAL GUIDELINES

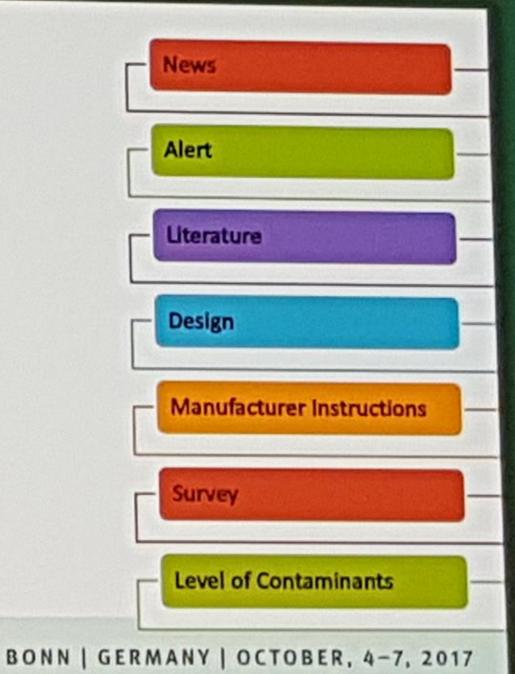
on TOE (Transoesophageal echocardiographic) probe decontamination.'

Source: Independent External Review Panel Report (http://www.wales.nhs.uk/sitesplus/863/news/22465)

Agenda



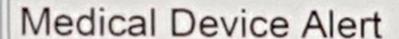
IDENTIFYING PROBLEMS



18TH WORLD STERILIZATION CONGRESS

Mother dies as 150 heart patients told they are at risk from Hepatitis B in NHS hospital outbreak

National Alert



Ref. MDA/2012/037 Issued: 28 June 2012 at 14:00

Device

Reusable transcesophageal echocardiography, transvaginal and transrectal ultrasound probes (transducers).

All models.

All manufacturers.



Literature

Low level or no disinfectant

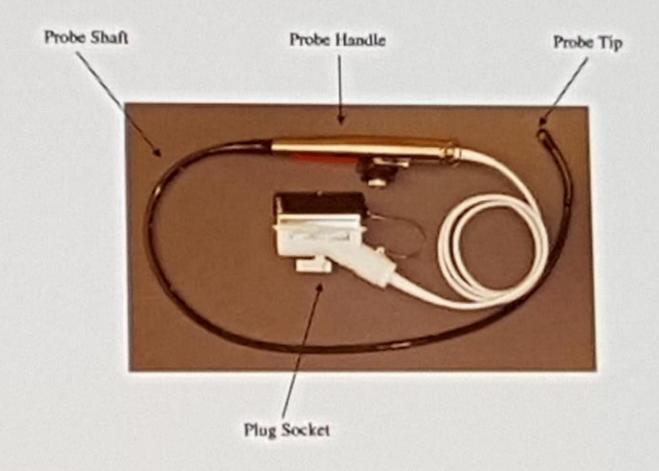
Probe defects

Microbial Contamination

The use of probe sheath

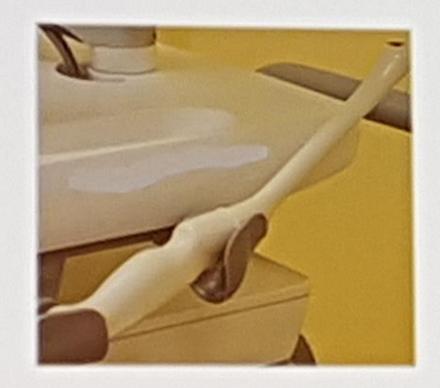
Probe handle

Design



TOE (Transoesophageal echocardiographic) probe

Design & Demands





Transvaginal ultrasound probes (TVUP)
Transrectal ultrasound probes (TRU)

Probe Manufacturer Decontamination Instructions

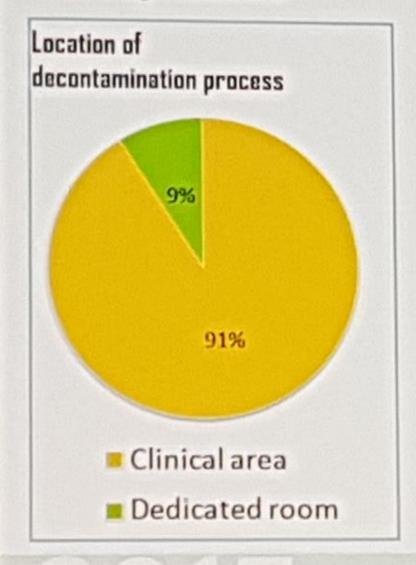
Variation

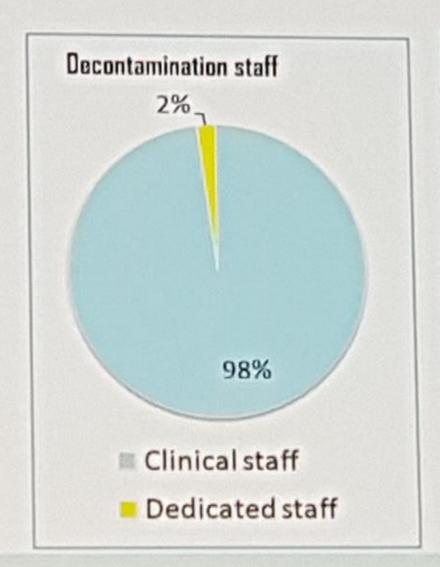
Inappropriate detergents and disinfectants

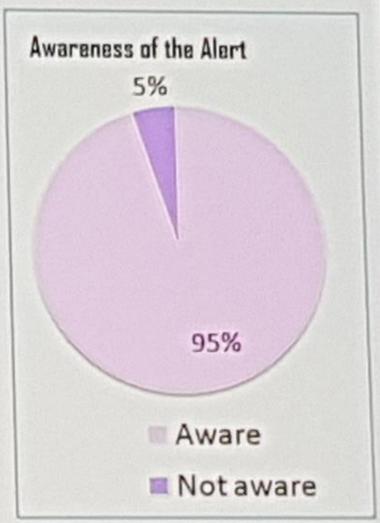
Material compatibility

United Kingdom Scotland. Northern Ireland England Wales

Survey Results







Survey Results

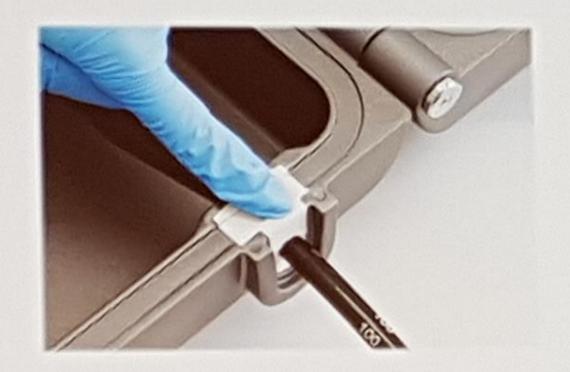
- 60% No Standard Operating Procedures
- Most units did not follow manufacturer instructions
- Variation in decontamination practice
- Inconsistent use of sheath

Protein Test of Probe Surface

- After patient use and removal of sheath
- 38 probes, 5 departments, 3 hospitals
- Use Clean Trace (3M™) as protein test kit



TOE Probes





Compatible cover for non-immersible parts Endoscope Washer Disinfector

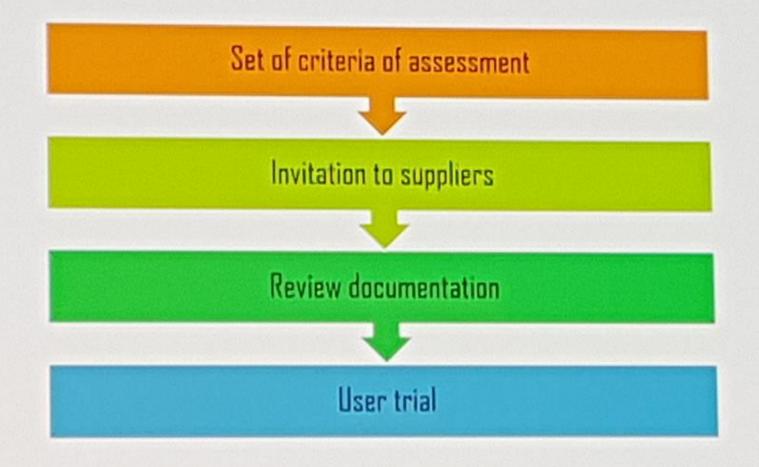
Evaluation of Disinfection Systems for TRUS and TVUS



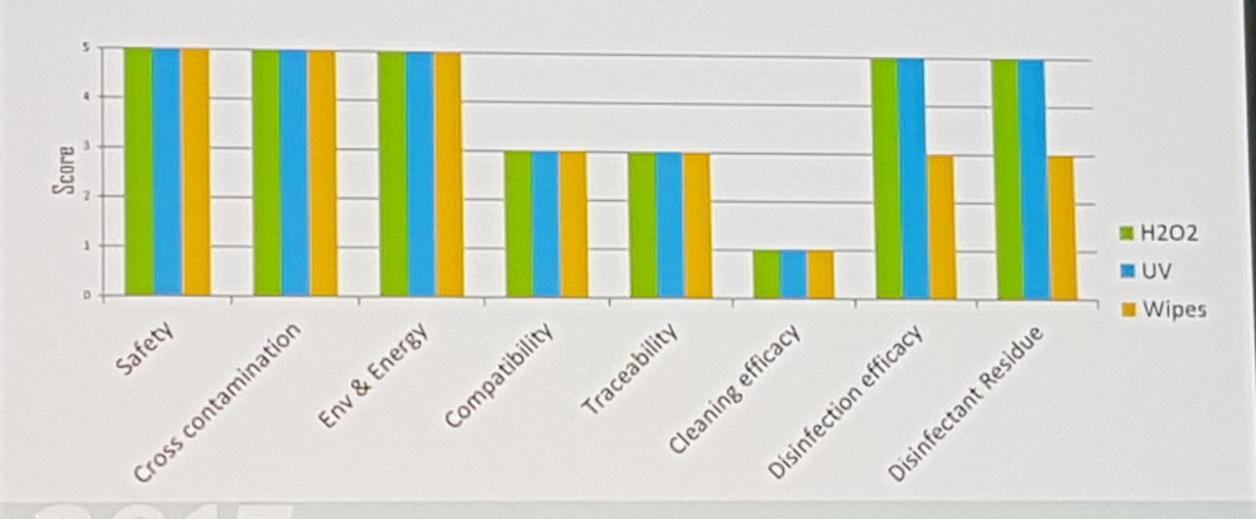
Project team

- Microbiologists
- Infection control team
- Occupational health
- Medical physicist
- Decontamination lead
- Sonographer
- Decontamination engineer

Evaluation Methodology



Assessment Results of Disinfection Systems



User Trial Feedback - Hydrogen Peroxide System

Training Size Safety Ease of use Reliability Traceability manual Adequacy of manual Cycle time Replacing the canister Purging

User trial feedback - Ultraviolet system

Rapid cycle time Easy to use



Bulky Poor Power plug



Reliability and confidence
Training
Label supply



User Trial Feedback - Three Wipe System

Training
Speed of use
Small footprint
Manufacturer
instructions



Traceability – not linked to the hospital IT system



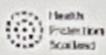
DELIVERING OUTCOMES

Solutions

- · Decontamination after each use despite the use of the sheath
- TOE probes compatible Endoscope Washer Disinfector in dedicated Endoscope Decontamination Units
- TRUS and TVUS 3 different disinfection systems (preferably validated), locally by trained staff. Cleaning is still manual, not ideal but an improvement

NHSScotland Guidance Decontamination of Semi-critical Ultrasound Probes

http://www.hps.scot.nhs.uk/haiic/decontamination/reso urcedetail.aspx?id=1703





NHSSectiond Guidance for Decontamination of Semi-Critical Ultrasound Probes; Semi-treasive and Non-invasive Ultrasound Probes

Nach STH

