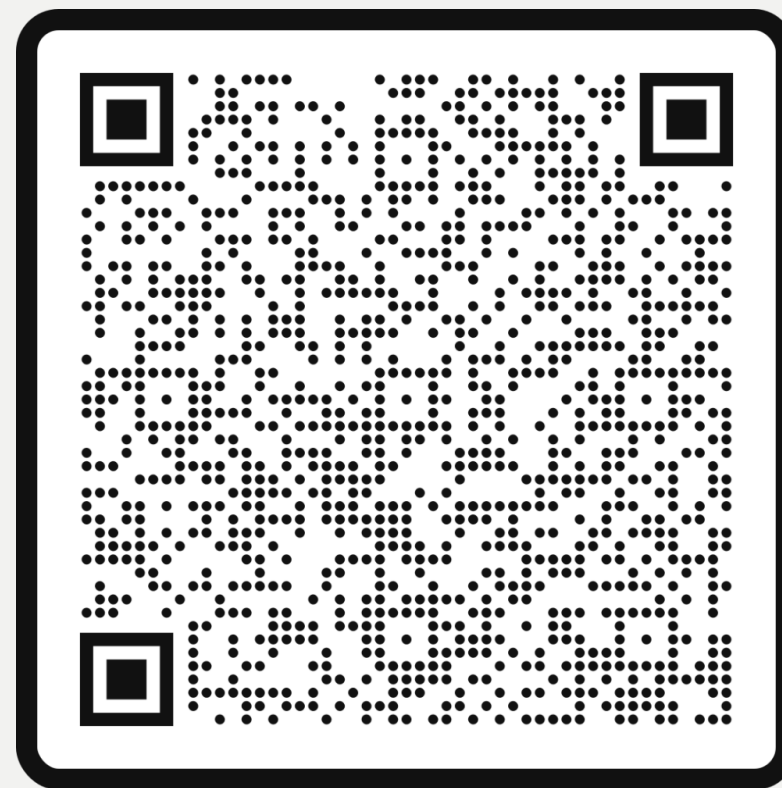




Welcome to Scotland's Medical Device Decontamination Seminar!

Scotland's Medical Device Decontamination Seminar 2025

Tuesday 13th May 2025
8:00am - 4:00pm
Golden Jubilee Conference Hotel



13th May 2025
Golden Jubilee Conference Hotel
Glasgow, G81 4SA



Chair Opening Address

Scotland's Medical Device Decontamination Seminar 2025

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Dr. Sulisti Holmes

Head of Decontamination and Incident Investigation Reporting
Centre
NHS Scotland Assure



Keynote Presentation

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Dr. Matthias Tschoerner

Head of Applications Department and Research and
Development
Chemische Fabrik Dr. Weigert GmbH & Co.



Keynote Presentation

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Alice Miller

Assistant Postgraduate Dental Dean
NHS Education for Scotland

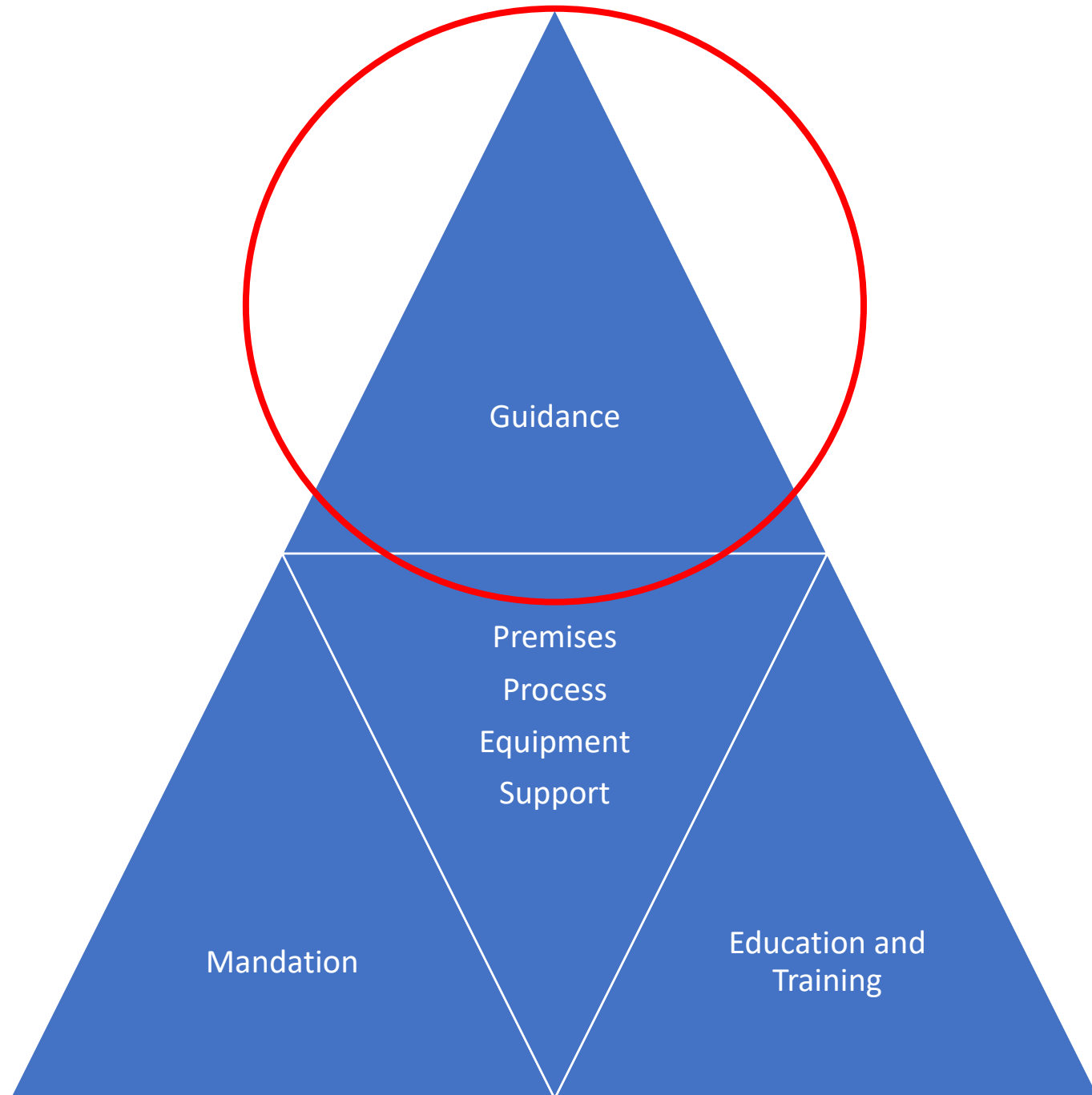
Evolution not Revolution

SHTM 01-05

and

LDUs in General Dental Practice (GDP)







Right Processes - GUIDANCE

Cleaning published March 2007

Sterilisation Published Dec 2011

Management (Online in PSM)
Published October 2014



- DDP DECON ROOM 2011





The Vision

‘To ensure accurate Infection Control / Decontamination information is disseminated widely and consistently in a form appropriate to the target audience and in a way which allows and encourages dentists and their teams to assess what they need to do to change their practices and improve patient safety’.

Irene Black, 2006

The Action Plan

Problem	Goal	Action Plan	Who's responsible		Monitoring Progress	Has the action been achieved					
Wearing watches during clinical sessions	Watches are not worn during clinical sessions	When I change into my uniform then I will take off my watch [may also develop AP for buying and fixing clock to surgery wall]	All staff		e.g. how, who, when	Date_____					
			All dentists	X		Always		Someti mes		Nev er	
			All DCPs	X		Any comments/problems					
			All non-clinical staff								
		Other (names)									
		Reminder (if appropriate) Changing into uniform									

- Decontamination in Dental Primary Care - An RCT of Two Educational Strategies

Research Question

In comparison to postgraduate education alone, does the provision of postgraduate education coupled with theory-based, individualised, practice support visits lead to an effective and cost-effective increase in the implementation of postal guidance on the cleaning of dental instruments in dental primary care?



[Home](#) > [Publications](#)

Guidance

Management, equipment, and process of the decontamination of dental instruments in a Local Decontamination Unit (LDU) in NHSScotland (SHTM 01-05)

Published on 30 April 2024
From: [NHSScotland Assure](#)

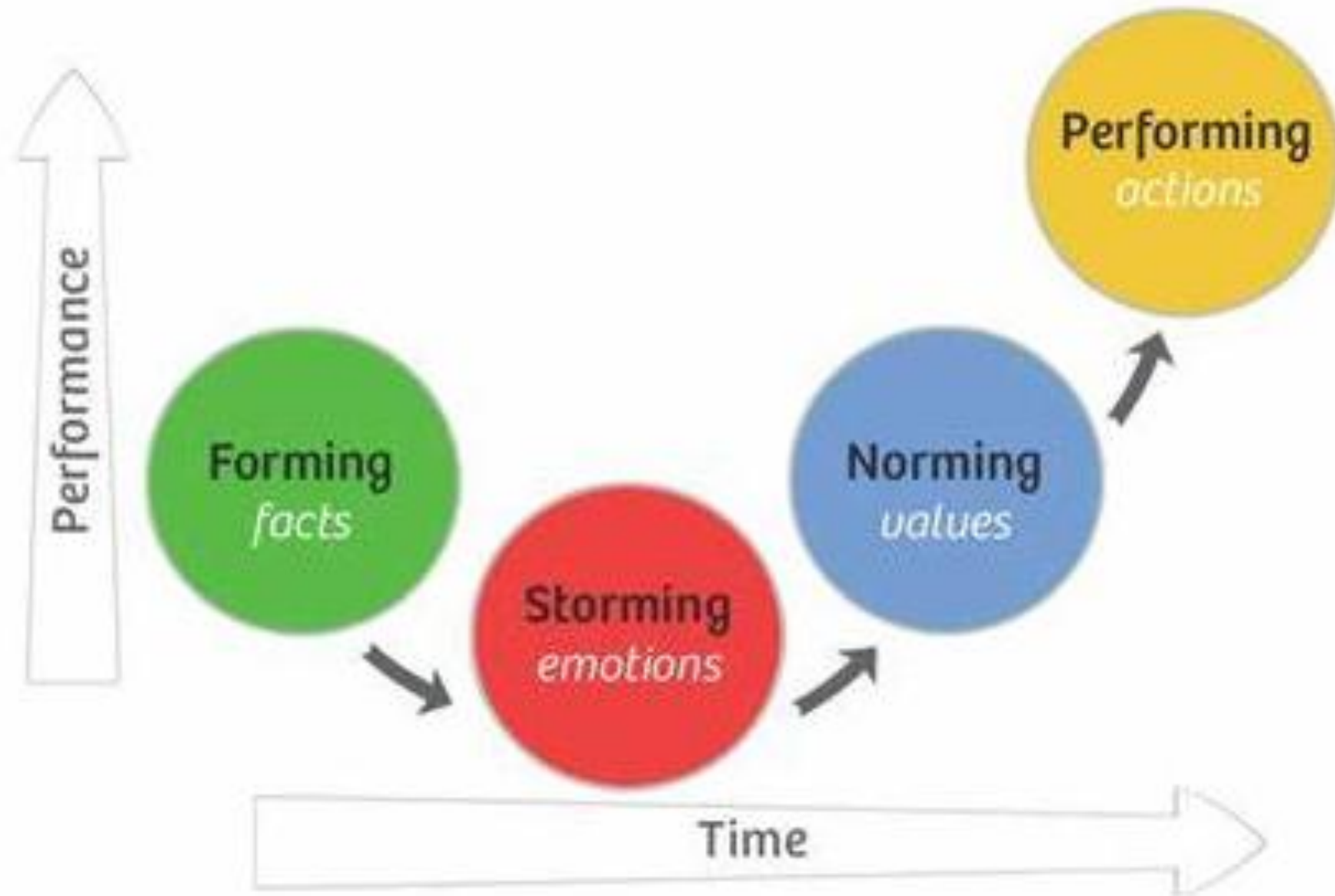
Management, equipment, and
process of the decontamination
of dental instruments in a Local
Decontamination Unit (LDU) in
NHSScotland

Scottish Health Technical Memorandum 01-05

SHTM
01-05
part C

part C - Process
Version 1 - April 2024





Current Challenges

- Staff retention

COVID burnout = high team turnover.

Increased demand for training/keep process quality

- **S**HTM 01-05 getting confused with HTM 01-05

Different content!

- Sustainability/ IPC not happy bed fellows

SHTM 01-05 incorporated some principles





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Carol Colligan

Infection Control Manager / Decontamination Lead
NHS Shetland



MICROBIAL CONTAMINATION OF FINAL RINSE WATER FOR ENDOSCOPE WASHER DISINFECTORS

CAROL COLLIGAN, INFECTION CONTROL MANAGER/ DECONTAMINATION LEAD, NHS SHETLAND

SULISTI HOLMES, HEAD OF DECONTAMINATION AND INCIDENT REPORTING, NHS NATIONAL SERVICES, SCOTLAND

ROBERT ALLAN, AUTHORISING ENGINEER DECONTAMINATION, NHS NATIONAL SERVICES, SCOTLAND

PROFESSOR PETER HAWKEY, CONSULTANT MICROBIOLOGIST/ INFECTION CONTROL DOCTOR, NHS SHETLAND



THE BASICS

- FLEXIBLE ENDOSCOPES CANNOT WITHSTAND THERMAL PROCESSING
- HIGH LEVEL DISINFECTION & RINSING TO REMOVE CHEMICAL RESIDUES
- FINAL RINSE WATER NEEDS TO BE TESTED AS PER GUIDANCE AND STANDARDS

MICROBIAL TESTING

- TOTAL VIABLE COUNT (TVC) - LESS THAN 10 CFU/100 MLS
- ABSENCE OF *PSEUDOMONAS SP*

SOURCES

- SHTM 01- 06 – WEEKLY TESTS
- BS EN ISO 15883-4: 2018

POOR QUALITY RINSE WATER CAN REINTRODUCE CONTAMINANTS WHICH ADVERSELY AFFECT PATIENTS

THE INCIDENT - DEC 2019 SUDDEN RISE IN TVC LEVELS

HIIAT RISK ASSESSMENT UNDERTAKEN BY IPCT  **RED**/ HIIORT SUBMITTED TO HPS

THEATRE'S BCP PUT IN PLACE – REPROCESSING SUPPORT PROVIDED BY NHS GRAMPAN

PATIENTS AFFECTED REVIEWED TO IDENTIFY ANY HIGH RISK FACTORS

PROBLEM ASSESSMENT GROUP (PAG) THEN INCIDENT MANAGEMENT TEAM (IMT) MEETINGS HELD

FIRST ACTION

ANOTHER SCOTTISH HOSPITAL WITH SAME MACHINES HAD RESOLVED THESE ISSUES BY INCREASING THE TEMPERATURE AND TIMING OF THE INCOMING RO WATER FEED FOR THE MACHINE SELF DISINFECTION CYCLES

SYNCHRONISATION OF CYCLES IMPLEMENTED  IMMEDIATE REDUCTION IN TVC LEVELS

MACHINES RETURNED TO SERVICE FOLLOWING AGREED SCHEDULE OF ACCEPTABLE TEST RESULTS

INCIDENT REVIEW SCHEDULED FOR MARCH 2020



FROM 30TH MARCH 2020

THREE SPIKES (50 -100 CFU/ 100MLS) OVER A PERIOD OF 16 WEEKS

PATTERN OF RESULTS FROM BOTH EWD WATER SAMPLES ALMOST IDENTICAL

FURTHER HIIORT SUBMITTED TO HPS (ARHAI)

PAG/ IMTS HELD – ALL RELEVANT PERSONNEL ATTENDED PLUS HEALTH FACILITIES SCOTLAND (HFS), EWD MANUFACTURER, UK REPRESENTATIVE FOR THE EWD MANUFACTURER & MANUFACTURER OF REVERSE OSMOSIS WATER SYSTEM

THEATRE'S BCP PUT IN PLACE – REPROCESSING SUPPORT PROVIDED BY NHS GRAMPIAN

PATIENTS AFFECTED REVIEWED TO IDENTIFY ANY HIGH RISK FACTORS



HFS CARRIED OUT A COMPLETE SITE AUDIT IN JULY 2020 TO DETERMINE ROOT CAUSE OF PROBLEM

OBJECTIVES

EXAMINE MAINTENANCE & SAMPLING OF COMPLETE SYSTEM

IDENTIFY CRITICAL POINTS WITHIN THE SYSTEM

PROVIDE PROPOSED CORRECTIVE ACTIONS

METHODOLOGY

SAMPLING IN THE HOSPITAL – SAMPLING & SANITATION PROCEDURES FOR SAMPLING PORTS/POINTS ETC.

CLEAR SCHEMATIC OF WHOLE SYSTEM & SAMPLING POINTS PREPARED TO UNDERSTAND INTERACTION OF EWDS WITH RO WATER SYSTEM

OFF ISLAND ACCREDITED LABORATORY– SAMPLE TRANSPORT/ HANDLING (COLD CHAIN/ PACKAGING), SAMPLE METHODOLOGY

RO AND WATER DISTRIBUTION SYSTEM – RO MANUFACTURER MAINTENANCE REPORTS, LOCAL MAINTENANCE RECORDS, SANITATION PROCEDURES, FILTER GRADES/ CONDITIONS, FREQUENCY OF FILTER CHANGES, POTENTIAL DEFICIENCIES/AREAS TO BE INVESTIGATED IN THE SYSTEM.

WEEKLY TVC WATER SAMPLES WERE TAKEN FROM BOTH EWDS, FROM DISTRIBUTION SAMPLING POINTS FOR THE COMPLETE RO WATER SYSTEM AND FROM EWDS BREAK TANKS

EWDS – MAINTENANCE REPORTS BY UK REPRESENTATIVE FOR EWD MANUFACTURER, PERIODIC TEST RECORDS, FILTER GRADES/ CONDITIONS, FREQUENCY OF FILTER CHANGES, POTENTIAL DEFICIENCIES/AREAS TO BE INVESTIGATED IN THE SYSTEM

WATER TEST RESULTS

Area Examined	Compliant
SOP including all routine tests	√
Staff training	√
Transport conditions – cold chain/ packaging	√
Laboratory Accredited for EWD water testing	√
Maintenance contract - EWDS / RO system	√
Water testing for RO water system	√

FINDINGS

- **ALL COMPONENTS IN CONTACT WITH WATER HAD BEEN SUBJECTED TO REGULAR DISINFECTION PROCESSES APART FROM THE BREAK TANKS & TUBING LEADING TO TANKS**
- **HIGH TVCS DETECTED IN SAMPLES FROM EWD RINSE WATER & BREAK TANKS**
- **DESIGN OF THE PIPE AND BREAK-TANK WITHIN THE EWD WAS FOUND TO BE AN OPEN CIRCUIT EXPOSED TO AIR - POTENTIAL FOR BACTERIAL INGRESS & GROWTH**
- **NO WAY TO INSPECT LEVEL OF CLEANLINESS OF BREAK TANKS OR TO CHECK IF RESIDUAL WATER WAS LEFT IN THESE**
- **DRAWING HOT WATER FROM THE WATER TREATMENT & DISTRIBUTION SYSTEM DURING SYNCHRONISATION MIGHT NOT ALWAYS BE EFFECTIVE IF COLD WATER OR HIGH LEVELS OF BACTERIAL CONTAMINATION PRESENT IN PIPES OR BREAK TANKS**

**INCIDENT REPORTED TO INCIDENT REPORTING INVESTIGATION CENTRE (IRIC) ON 30TH JUNE 2020
- REF INV1817 OCC2151 / MHRA – REF 2020/006/023/487/014**

BREAK-TANK



ACTIONS

- **ROOT CAUSE FOR INCREASED TVC LEVELS COULD POSSIBLY BE LACK OF SANITATION OF THE INTERNAL BREAK TANKS**
- **BREAK TANK SANITISATION WAS NOT INCLUDED IN THE MANUFACTURER'S INSTRUCTIONS FOR THESE MACHINES/ NOT PART OF THE DAILY THERMAL DISINFECTION CIRCUIT**
- **EWD MANUFACTURER DEVELOPED A CHEMICAL SANITISATION SOP FOR BREAK TANKS**
- **FOLLOWING IMPLEMENTATION TVC LEVELS REDUCED TO LESS THAN 10 CFU/100ML**
- **CHEMICAL SANITISATION WAS A RISKY PROCEDURE FOR ESTATES STAFF**
- **BOTH EWDS REPLACED IN 2023 – GREATER ASSURANCE OF PATIENT/STAFF SAFETY, NO BREAK TANKS**

LESSONS LEARNED

NHS SHETLAND UNAWARE ANY OTHER HOSPITALS WERE EXPERIENCING SIMILAR PROBLEMS

**IMPROVED COMMUNICATION NEEDED BETWEEN BOARDS ABOUT ANY ISSUES & ACTIONS
TAKEN TO REMEDY THESE**

SUBSEQUENT ACTIONS TAKEN BY NHS SHETLAND

**PILOT PROJECT COMMENCED TO TEST TVC'S FOR FINAL RINSE WATER AT GILBERT BAIN HOSPITAL LABS,
NOT ACCREDITED FOR WATER TESTING**

NSS OVERSIGHT & SUPPORT FROM NHS SHETLAND ICD/ MICROBIOLOGIST

WEEKLY TEST SAMPLES STILL SENT SOUTH TO ACCREDITED LAB

WILL CONTINUE UNTIL ASSURANCE THAT LOCAL TESTING IS AS RELIABLE AS OFF ISLAND TESTING



ACKNOWLEDGEMENTS

**SULISTI HOLMES, HEAD OF DECONTAMINATION AND INCIDENT
REPORTING, NSS**

ROBERT ALLAN, AUTHORISING ENGINEER DECONTAMINATION, NSS

**PROFESSOR PETER HAWKEY, CONSULTANT MICROBIOLOGIST/ICD NHS
SHETLAND**





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Q&A



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Refreshments & Networking



Chair Morning Reflection

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Head of Decontamination and Incident Investigation Reporting
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Vanda Plecko

Consultant Microbiologist & Infection Control Doctor
NHS Highland



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Anne Campbell

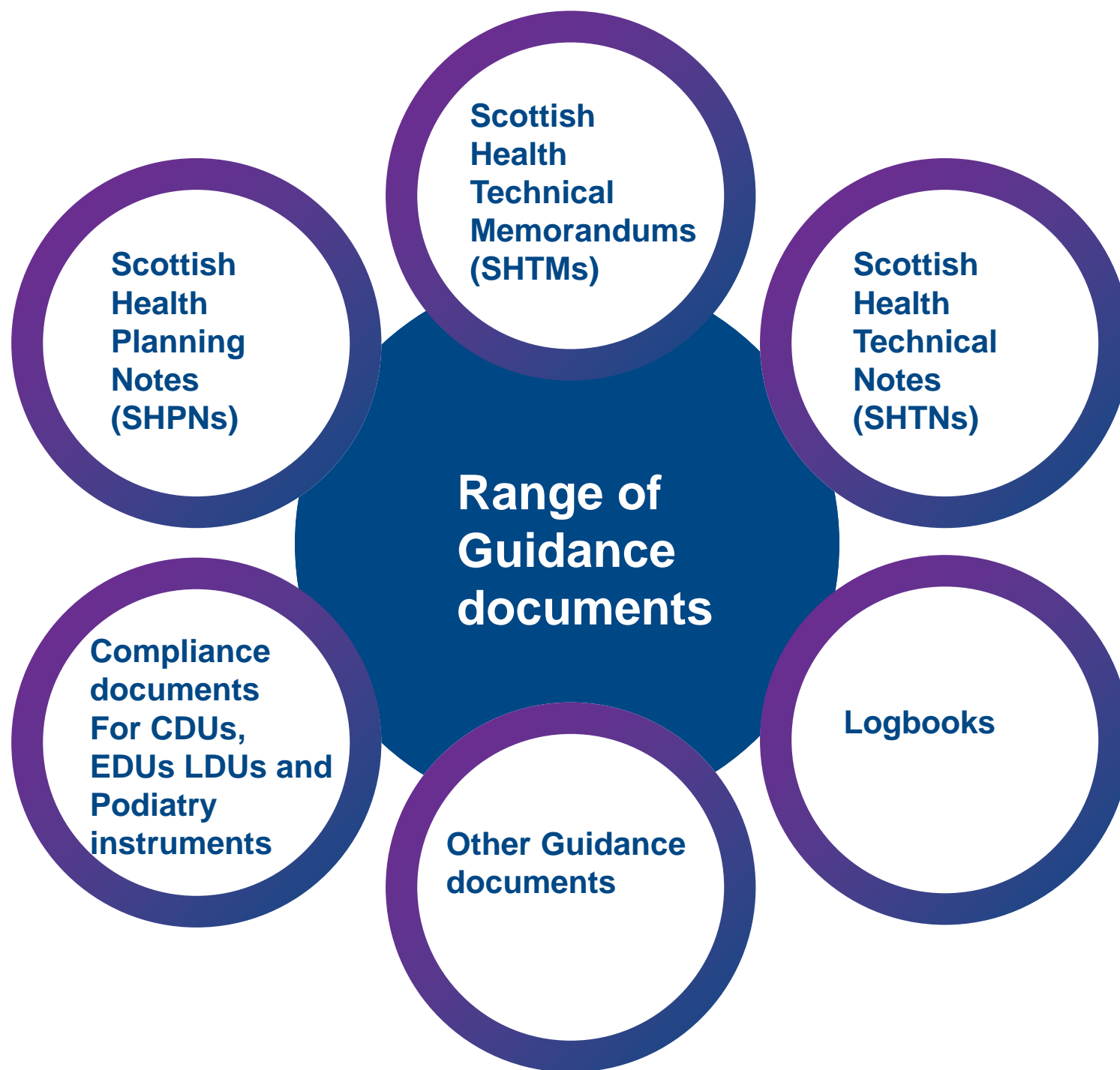
Technical Advisor (Decontamination)
National Services Scotland



NHSScotland Assure Decontamination Services Guidance



2025 Guidance
update



Reasons for change



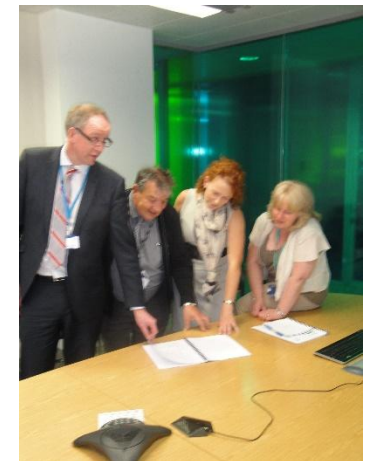
Number of challenges since 2019

– Some External

- Exit from European Union
- New legislation
- New British standards

– Some internal

- Creation of NHSScotland Assure
- Introduction of accessibility requirements
- **Evidence and Lesson learns**
- **Technology and Innovation**
- **Stakeholder feedback**



Guidance currently under review

Scottish Health Technical Memorandum (SHTMs)

- SHTM 01 - 01: 2018 CDUs V1.0 - [high priority](#) - [consideration of new technologies revised standards](#)
- SHTM 01-02: Laboratory sterilizers: 2020 V1.0 – [low priority](#)

Scottish Health Planning Notes (SHPNs)

- SHPN 13 - 1 CDUs for publication 2025 - [consideration of revised standards, BS 13485: 2021, BS EN 17141: 2020, detailed guidance on management/ planning of new build projects and new design layouts](#)
- SHPN 13 - 3 EDU for publication 2025 - [consideration of revised standards and updated BSG guidance](#)



Guidance currently under review cont.

Other guidance

- SHTM 01-03 Carriage of Dangerous goods in relation to used RMDs (previous reference GUID 5006 – [Updated regulations - UK transportation of dangerous goods](#)):
- SHTN 01-08 On Loan RMDs - Roles and responsibilities - [Changes to timelines](#)
- Dental LDU, GUID 5005: 2019 – [Updated references including SHTM 01-05](#)
- Compliant Podiatry instruments, GUID 5007: 2020 – [consideration of net Zero policy](#)

All guidance to be evidence based and where available:

- include lessons learned from reported Incidents
- consideration of new technologies



Current published guidance not for review in 2025-2026

- Requirements for compliant CDU, GUID 5014: 2024
- Requirements for compliant EDU, GUID 5013: 2024
- SHTM 01-06: 2023 – Guidance for Decontamination of endoscopes and TOE probes V 1.0
- SHTM 01-05 Decontamination of dental instruments in a Local Decontamination Unit (LDU) in NHSScotland V 1.0: 2024
- SHPN 13 - 2 LDU: 2008



In summary

Several new publication have been released in the last 2 years

- Requirements for compliant CDU, (GUID 5014: 2024), EDU, (GUID 5013: 2024), SHTM 01-06: 2023 –Decontamination of endoscopes and TOE probes V 1.0
- SHTM 01-05 Decontamination of dental instruments in a Local Decontamination Unit (LDU) in NHSScotland V 1.0: 2024
- **What will be published soon?**
 - SHTM 01-03 Carriage of Dangerous Goods Regulations with respect to used Medical Devices – **May 2025**
 - SHTM 01-08 Decontamination Guidance Management of on Loan RMDs Roles & Responsibilities – **June 2025**
 - Requirements for compliant Dental LDUs and Podiatry instruments - **Public consultation – June 2025**
 - SHPN 13 -1 and 2 for CDUs and EDU design – **Autumn 2025**
- **What next? UK collaborative approach**
 - Greater collaboration with the other 3 nations in the UK to provide a consistent approach to Guidance and Technical Requirements

Thanks for Listening!

Thanks for
all the fish



The answer
to everything
is 42





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Case Study

WASSENBURG
medical



Case Study

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James Doherty
National Sales Manager
Wassenburg Limited



Case Study

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Case Study

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Ellie Wishart

Senior Medical Affairs Manager
Nanosonics



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Q&A



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Lunch & Networking



Chair Afternoon Reflection

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Vanda Plecko

Consultant Microbiologist & Infection Control Doctor
NHS Highland



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Gillian Cairns
Global Head of Microbiology
BSI



New PMS requirements for Great Britain

Gillian Cairns
Global Head of Microbiology

Jenifer Hannon
Post-market Surveillance Regulatory Lead

Vishal Thakker
Head of Approved Body

May 2025



Information presented within this presentation is based on our current understanding of the applicable legislations and information available



Agenda

01

Introduction and overview of the PMS regulations

02

Timelines for implementation

03

PMS requirements relating to the QMS

04

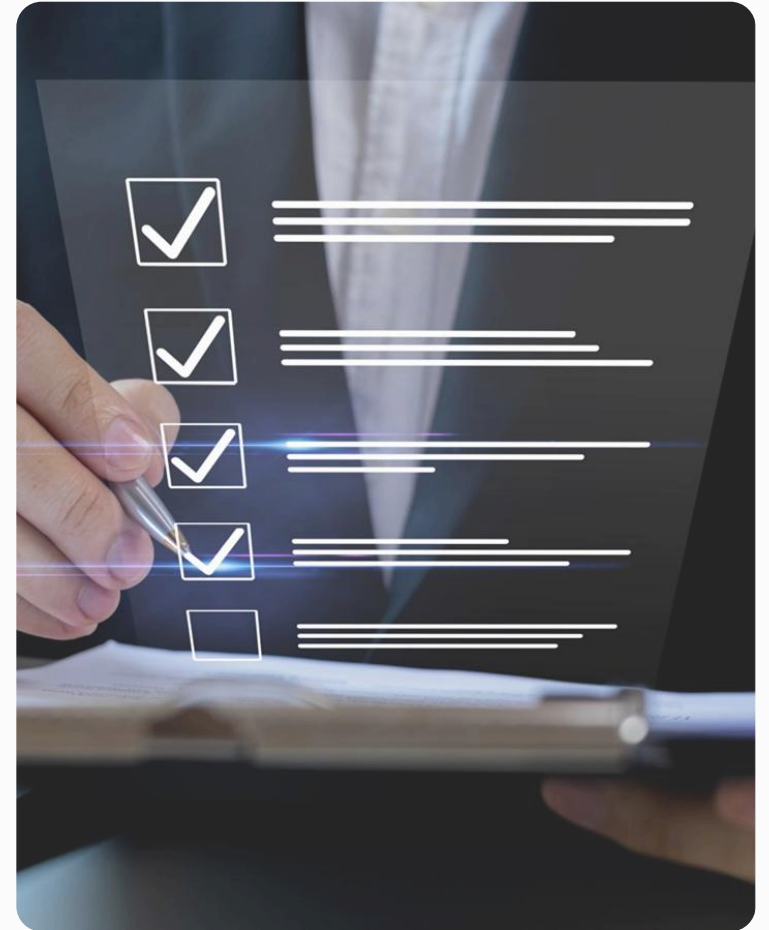
Periodic safety update reports

05

A look to the future for the core UK MDR and HIE

06

Q&A session



Introduction

01

MHRA seeks to introduce regulatory reform in response to recommendations made by the Independent Medicines and Medical Devices Safety review (IMMDS review, 2018-2020)

02

Initial public consultation launched in 2021, other consultations are ongoing

03

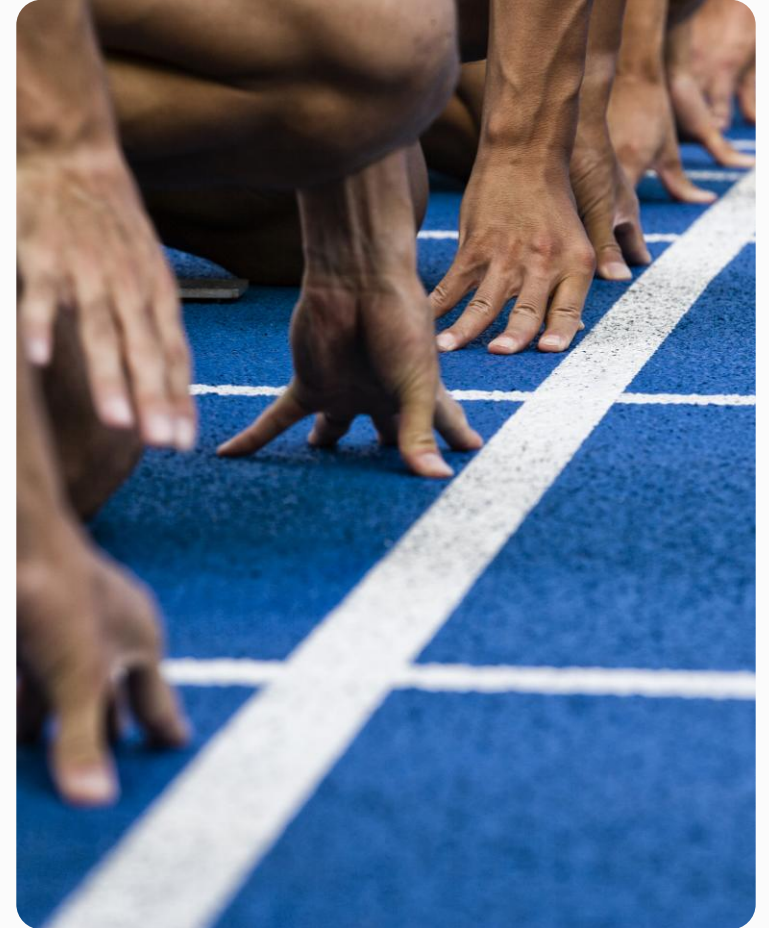
Post-market Surveillance Regulations are the first stage of strengthening regulatory requirements and aim to improve patient safety in Great Britain

04

Applies to all devices placed on the GB market or put into service, regardless of whether this is under the UKCA or CE scheme

05

Broadly mirrors the EU MDR/IVDR, some differences



Medical Devices (Post-market Surveillance Requirements) (Amendment) (Great Britain) Regulations 2024 [SI 2024/1368](#)

Part 4A PMS

- Interpretation (definitions) (44ZC)
- Scope (44ZD)
- PMS System (44ZE)
- PMS Plan (44ZF)
- Prevention of harm
- Reporting
- FSCA and
- Post-market
- Periodic
- Trend R
- Reports received by Secretary of State (44ZO)
- Analysis of information received under Part 4A (44ZP)
- Retention of PMS documentation (44ZQ)
- Requests for PMS documentation (44ZR)

CE-marked devices must also comply!

Custom made devices are exempt from:

- FSCAs outside of Great Britain
- Post-market Surveillance Report
- Periodic Safety Update Report
- Trend Reporting

Complete exemption for:

- Devices for Clinical Investigation
- Devices for Performance Evaluation
- Device subject to an Exceptional Use Authorisation

Stakeholder responsibilities



Key new requirements

Preventive and Corrective Actions: Notify UKRP, AB and MHRA and monitor

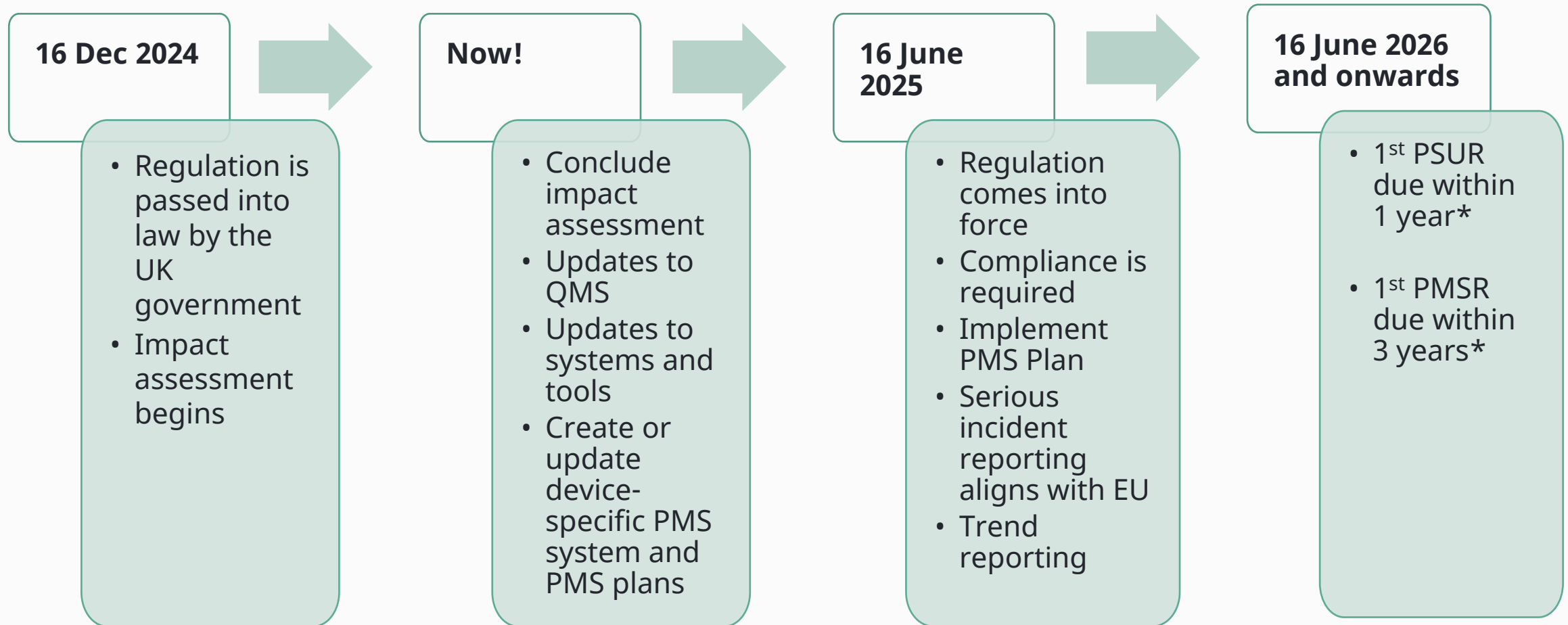
Serious Incident Reports: 2 days, 10 days, **15 days**, defined content for initial and final

PMSR or PSUR: Risk class dependent, updated regularly, defined content

Trend Reporting: **all incidents** with significant increase in severity or frequency



Timelines for implementation



Impact assessment

01 Device

- Type
- Risk classification
- Lifetime

03 Geography

- Where am I placing the device on the market?

02 Certification

- CE
(MDR/IVDR/Directives)
- UKCA (UK MDR 2002)

04 QMS

- Gap analysis to requirements 44ZE

05 Systems, procedures and documents

- Update
- New



PMS requirements related to the QMS

UKCA certified devices:

- PMS System which is device-specific and based on a PMS Plan
- Evidence of procedures which cover the requirements listed in Regulation 44ZE (3)
- **Evidence that the PMS System outputs feed into the technical and clinical documentation of the device as described in Regulation 44ZE (4)**

CE (Directives or MDR/IVDR) certified devices:

- PMS System which is device-specific and based on a PMS Plan
- Evidence of procedures which cover the requirements listed in Regulation 44ZE (3)



Periodic Safety Update Reports (PSURs)

Risk of device	Frequency of update under SI 2024/1368	Review by Approved Body?	For UKCA-devices: Standalone review or during ongoing surveillance?	Same as EU MDR/IVDR?
Class III device	Annual	Only if the device has undergone UKCA conformity assessment by the approved body!	Stand-alone	✓
Active Implant	Annual		Stand-alone	✓
Class IIb (implantable)	Annual		Stand-alone	✓
Class IIa (implantable)	Biennial		It depends!	✗
Class IIb (non-implantable)	Annual		Surveillance	✓
Class IIa (non-implantable)	Biennial		Surveillance	✓



Sterile procedure packs (Regulation 14)

All PMS requirements apply to those manufacturers (e.g. hospitals) assembling the sterile procedure packs **except** for PMSR or PSUR obligations (Regulations 44ZL and 44ZM). However, under **certain** circumstances those regulations must be applied:

- If the system or procedure pack incorporates a medical device which does not bear a UKCA marking or a CE marking; or
- the chosen combination of medical devices is not compatible in view of their original intended use

In these cases the procedure packs shall be classified in line with accepted classification guidance, (e.g. intended use, highest classified device), and the PMSR/PSUR requirements apply.

In the case of system or procedure packs, the manufacturer placing these on the market or putting them into service should ensure they focus on gathering and analysing PMS information relating to the safety and performance of the **combined use of the devices** in the pack.



Future look at UK MDR 2002- Roadmap

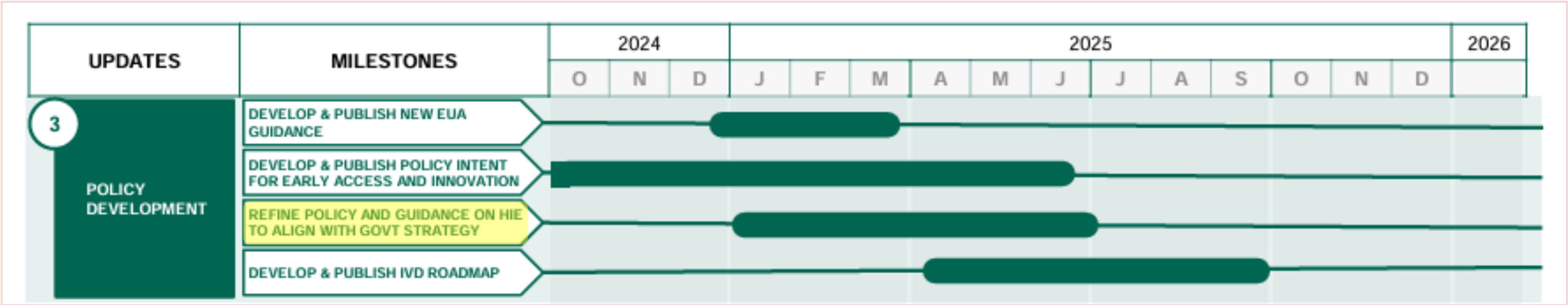


Key Dates:

- 1. PMS SI- **In Force June 16th 2025**
- 2. New Updated regulations- **Draft- Q3 2025 In force- Q1 2026**
- 3. Current legislation to be accepted beyond July 2025



Future look at UK MDR 2002- Roadmap



HIE Policy currently under review



Future look at UK MDR 2002- Dec 2024 Consultation

International Reliance

- 4 Routes to market
- Covering EU MDR/IVDR, US FDA, CAN and AUS

Removal of UKCA Marking

- Physical UKCA Mark removed
- Introduction of UDI

IVD Reclassification

- Class B IVDs incl. self-test, Self-Declared + QMS certification

Assimilated EU Law

- Removal revocation dates for:
 - 2002/364- IVD Common Specs
 - 207/2012- eIFU
 - 722/2012- Tissues of Animal Origin
 - 920/2013- Designation and Supervision of ABs



Key Take Away Messages

01

PMS Regulation applies to the Great Britain market.

MDR & IVDR applies in Northern Ireland

03

Applies to all devices placed on the market or put into service in Great Britain, regardless of whether device is certified under the UKCA scheme or has CE certification

05

BSI will be looking to confirm manufacturers have updated their QMS to address the new PMS requirements during surveillance audits

02

Following a 6-month transition period, compliance with the regulation is required from 16 June 2025

04

New reporting requirements for manufacturers:

- Shorter timelines to report serious incidents
- Trend reporting
- PMSR or PSUR for most devices



Any Questions?

Further Reading

MHRA Publications

- [Statutory Instrument laid in Parliament sets out first steps in delivering Medical Device Regulatory Reform and strengthening patient safety - GOV.UK](#)
- [Implementation of the future regulations - GOV.UK](#)

Draft Legislation

- [The Medical Devices \(Post-market Surveillance Requirements\) \(Amendment\) \(Great Britain\) Regulations 2024](#) (Draft being debated in UK Parliament)
- [https://hansard.parliament.uk/Lords/2024-11-28/debates/C0F23A0F-30D3-4C40-A26F-06FD5282493B/MedicalDevices\(Post-MarketSurveillanceRequirements\)\(Amendment\)\(GreatBritain\)Regulations2024](https://hansard.parliament.uk/Lords/2024-11-28/debates/C0F23A0F-30D3-4C40-A26F-06FD5282493B/MedicalDevices(Post-MarketSurveillanceRequirements)(Amendment)(GreatBritain)Regulations2024) (Transcript of the debate of the legislation in the House of Lords – UK Parliament)

Other publications

- [the Independent Medicines and Medical Devices safety Review](#)



Thank you for
your Attention!





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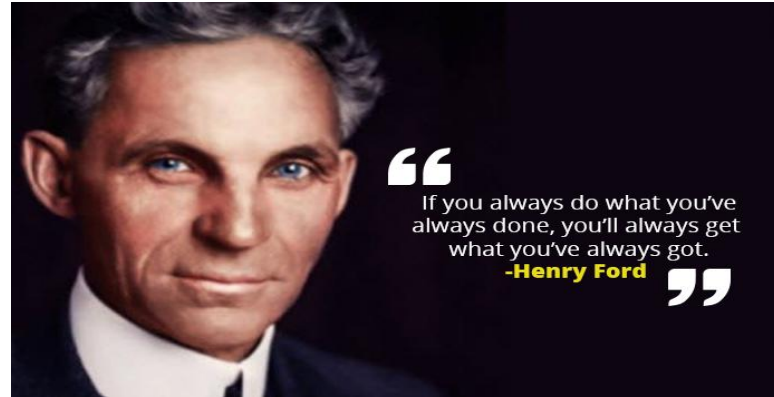


John Prendergast

Principal Engineer

NHS Wales Shared Services Partnership/Specialist

Decontamination Challenges – Pioneering The Future



John Prendergast AE(D), MIHEEM, IDSc (Chtd)
Medical Device Decontamination Seminar
NHS Scotland
May 2025

John Prendergast

Principal Decontamination Engineer

NHS Wales Shared Services Partnership – Specialist Estates Services
(Cardiff UK)

Short Bio:

- Member Institute of Healthcare Engineering and Estates Manager (UK)
- Chartered Member Institute of Decontamination Sciences (UK)
- Chairperson – Central Sterilising Club (Commenced 2024)
- Chairperson – All Wales Decontamination and Sterilization Advisory Group
- Chairperson – Board of AE(D) Registration – IHEEM
- IHEEM Registered AE(D)



GIG
CYMRU
NHS
WALES

Partneriaeth
Cydwasaethau
Shared Services
Partnership

Disclaimer

This presentation is my personal interpretation for education purposes only and not related to any policies of my employment.

This presentation is to promote continual improvement, discussion, education and is delivered in the best interests of patient safety.



GIG
CYMRU
NHS
WALES

Partneriaeth
Cydwasaethau
Shared Services
Partnership

Objectives

- Where we have been
- Medical Device Evolution
- Advancement in Reprocessing Methodologies
- Single Use v Re-usable?
- Sustainable Practises
- Validation/Testing

There are many challenges ahead. Several obstacles and directives that we may not have encountered previously.



GIG
CYMRU
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Background

[illegible]

Hospital exposes 18 patients to risk of human form of 'mad cow' disease because surgical tools were not sterilised properly

- Tools had been used on man suspected of having Creutzfeldt-Jakob Disease
- Not subjected to enhanced sterilisation procedures in possible cases of CJD
- North Carolina hospital apologises to patients and their families over blunder
- Brain disease causes blindness and kills 90% of sufferers within one year

By **SIMON TOMLINSON**
PUBLISHED: 16:05, 11 February 2014 | **UPDATED:** 16:44, 11 February 2014

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Eighteen patients in North Carolina may have been exposed to a fatal brain disorder similar to 'mad cow' disease after undergoing surgery with instruments that had not been properly sterilised.

THE DECONTAMINATION OF SURGICAL INSTRUMENTS AND OTHER MEDICAL DEVICES

**Report of a Scottish Executive Health Department
Working Group**

February 2001





Department of Health

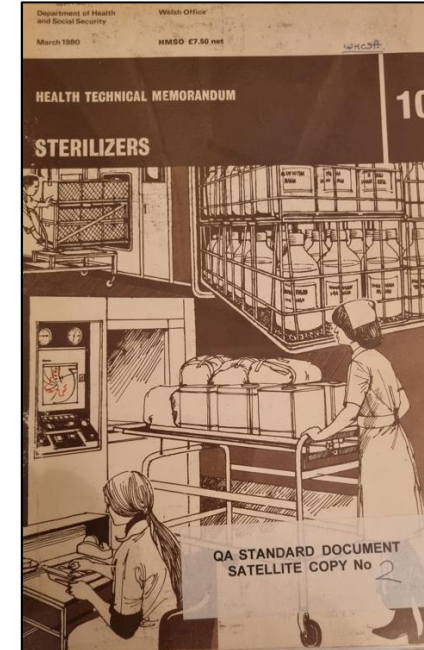
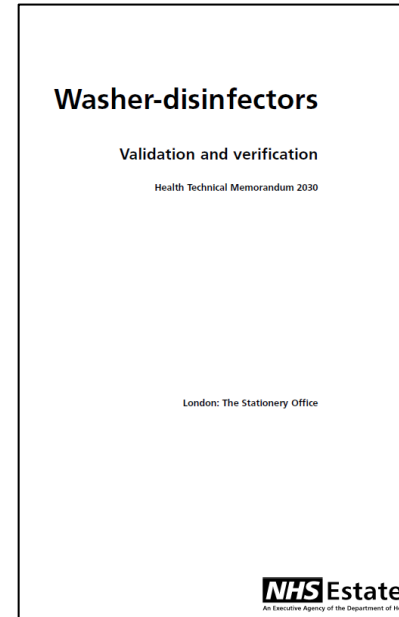
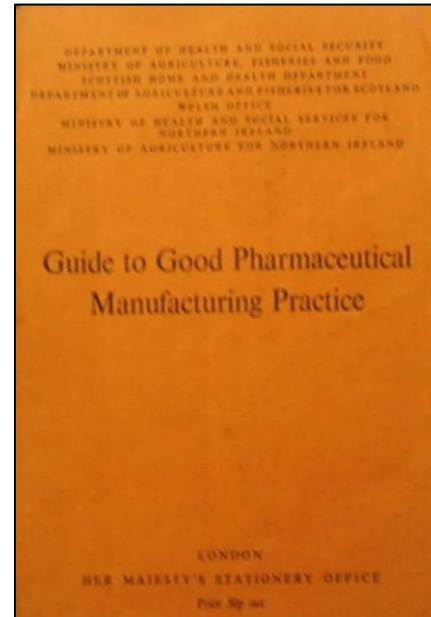
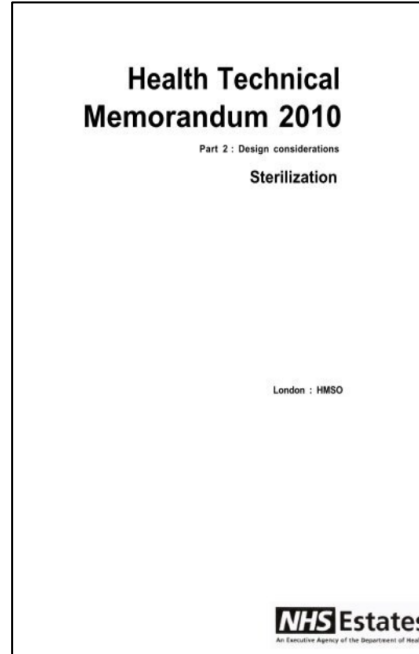
The Decontamination of surgical instruments in the NHS in England: Update Report - "A Step Change"



The Decontamination of Surgical Instruments in the NHS in England
Update report
"A Step Change"



Background



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Medical Device Evolution

The evolution of medical devices used for surgical intervention, enhances surgical safety, effectiveness and patient recovery. Is decontamination given the necessary consideration when designing such innovation?

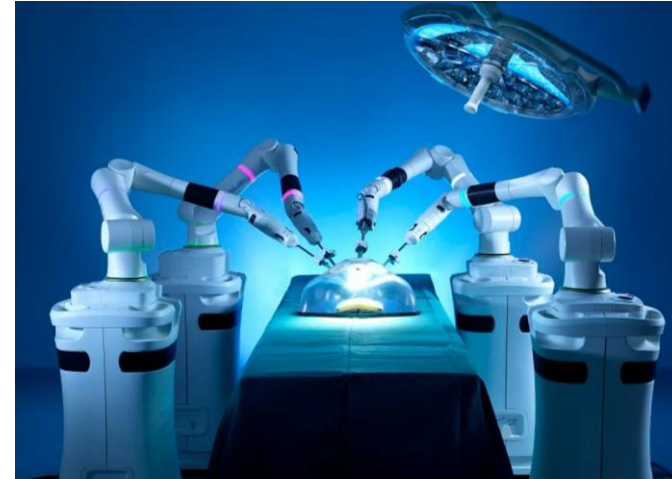
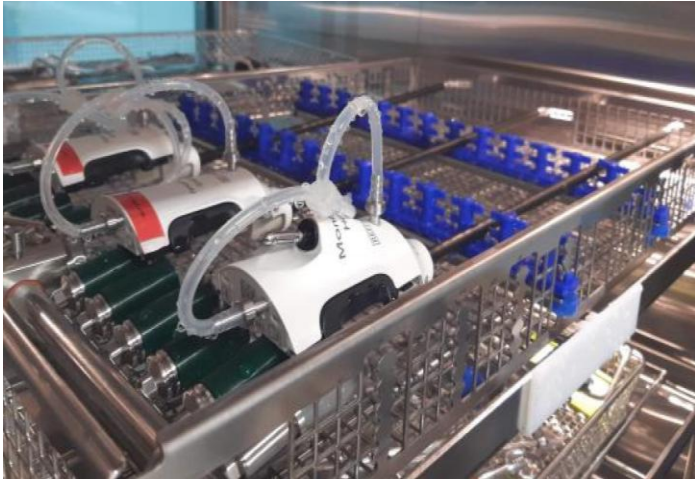
The future will include greater use of precise robotic systems, smart devices and 3D printing.



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Medical Device Evolution



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How Does Decontamination Evolve?

Many of our existing Decontamination systems have not been developed for differing material compositions of modern devices (steam/chemistry/mechanical cleaning).

Our equipment/systems may damage the devices.

Can we assemble/disassemble the devices for decontamination?

Have we got the correct racks to present devices to the W/D?

Sterilization compatibility?

Contradiction of IFU's

Are Decontamination professionals **involved** when purchasing?



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How Does Decontamination Meet Evolution?



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Evolution – Endoscope Decontamination

Decontamination of Endoscopes – Manual Cleaning of Scopes – Use of Automated technology?

Sterilization – should all high risk scopes be sterilized? Should all scopes be sterilized?

Drying of endoscopes – is the 3 hour rule accurate? Are systems presenting a ‘dry’ endoscope?

Chemical Disinfection or greater use of cold plasma, ozone and other Nano technologies?

Monitoring cleanliness of Endoscopes – QC (less emphasis than water)?

Single use endoscopes (Bronchoscopes/Cystoscopes etc)

Patient Surveillance!

Redesign of endoscopes – surfaces to repel proteins and microbes?



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Evolution – Sterile Services

Sterile Service Provision – Cycle configuration, must be based upon product families we are decontaminating, not just generic guidelines.

Use of Configured racks?

Sterile Barrier Systems will dictate cycle configuration, its not one size fits all – Containers/Disposable/Linen

Use of ultrasonics/solutions to flush/irrigate

Monitoring of protein on devices?

Sustainable?



Single Use v Reusable?

Single Use – Pro's

Single-use devices minimize the risk of cross-contamination and surgical site infections.

No need for cleaning, inspection, sterilization, or functional testing, which saves time and resources.

Reusable – Pro's

Reusable devices can be more cost-effective in the long run, especially when considering the cost of purchasing new single-use devices.

Environmental Sustainability: Reusable devices reduce waste generation and lower the environmental impact of medical practices.

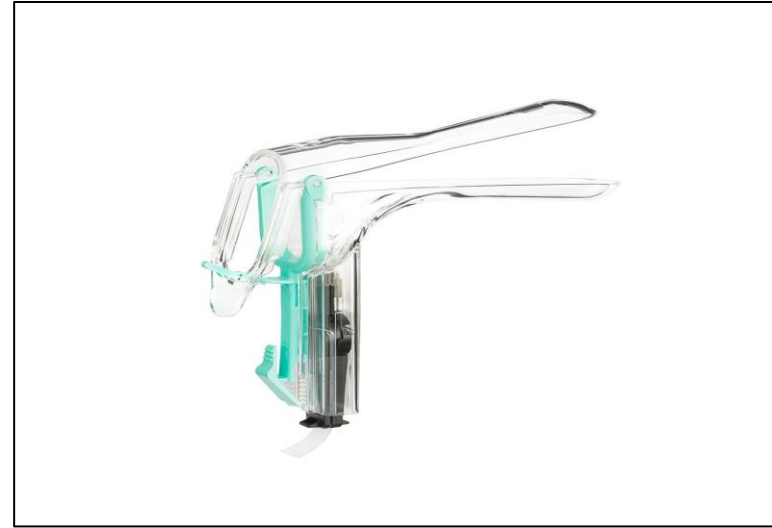
Potential for Reduced Carbon Footprint: Reusing devices can reduce the energy and material consumption associated with manufacturing new products.



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Single Use v Reusable?



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Sustainability – Marmite?

Sustainable medical device decontamination focuses on using environmentally friendly methods for cleaning and disinfecting reusable medical devices while maintaining patient safety and hygiene. This includes minimizing the use of harsh chemicals, reducing waste, and promoting sustainable practices throughout the decontamination process. **Patient Safety?**

Are we a utility heavy process?

Are we a sustainable process?

Quicker Fixes?



Sustainability

Can we work more efficiently?

Steam generation/Water Purification – Efficient options

Rinse Water – can we re-use FRW, can we re-use RO reject water?

Recycle – Do we reuse/recycle as we should?

Circular Economy – Minimising Waste/Compostable materials!

Sterile Barrier Systems

- Containers – Reusable – Can we accommodate?

- Linen – Reusable – What are consequences at Laundry?

- Single Use – Disposable – Can we recycle?

- PPE – Compostable rather than re-use!



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Testing/Validation/Monitoring

System were developed when equipment was controlled, manufactured and operated in a different manner.

Are HTM's/SHTM's/WHTM's – an obstacle to change?



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Testing/Validation/Monitoring

Are are wasting time and resources with current HTM/SHTM/WHTM protocols?

System were developed when equipment was controlled, manufactured and operated in a different manner.

Is it time to review?

Are control/monitoring systems providing the required verification?



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Technology is available



Continuous Monitoring

Process Verification

Use of data logger technology

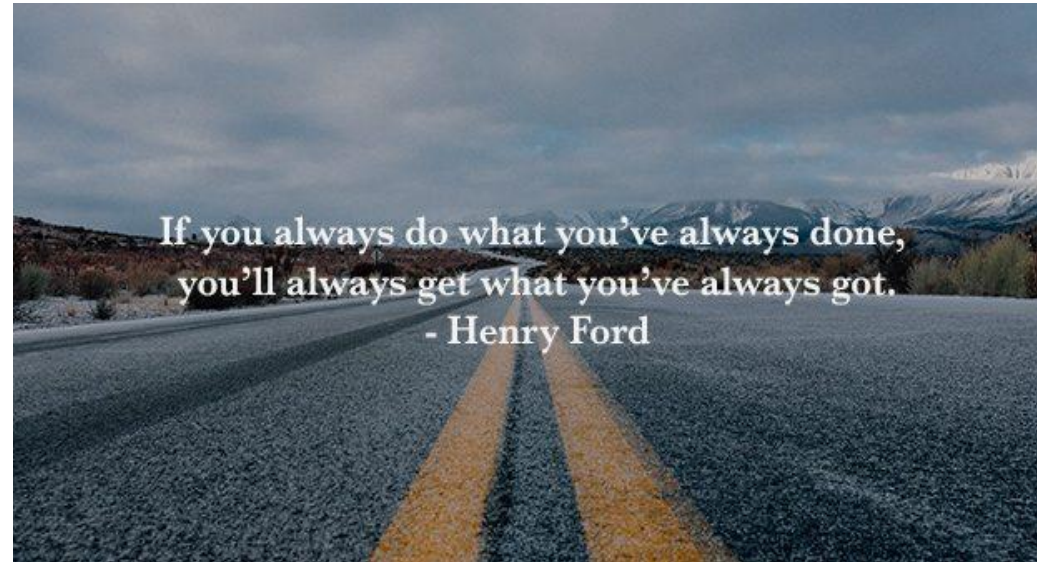
Encrypted and repeatable



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Your Thoughts – Be Smart with Change!



Ref' - www.google.com/images



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Keynote Presentation

Scotland's Medical Device Decontamination Seminar 2025

Tuesday 13th May 2025
8:00am - 4:00pm
Golden Jubilee Conference Hotel



Ms Lydia Robb

Scottish Clinical Leadership
Fellow, Plastic Surgery
Trainee
Centre for Sustainable
Delivery



Steven Chawk

Project Manager
National Green Theatres
Programme, Centre for
Sustainable Delivery



Lean Surgical Trays

Lydia Robb

*Scottish Clinical Leadership Fellow,
Plastic Surgery Registrar*

&

Steven Chawk

*Project Manager, National Green Theatres
Programme*

Background



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The national Green Theatres Programme is a key element of the [Scottish Government's Climate Emergency and Sustainability Strategy 2022 – 2026](#).

It aims to reduce the carbon footprint of theatres across NHS Scotland and enable more environmentally sustainable care by:

- Working with clinicians and professionals to develop actions that reduce carbon emissions.
- Supporting Boards to implement, measure and report on these improvements.
- Cost savings / cost neutral initiatives

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Our journey so far



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Green
Theatres
Speciality
Delivery
Group

3 Case studies
published

7 Actions for
adoption published

£600,000 of savings delivered
across NHS Scotland so far

12,000 Tonnes of CO2
reductions delivered so far

11 Actions for
Implementation released

National Green Theatres
Programme launched in
March 2023

NHS Scotland's Climate
Emergency and Sustainability
Strategy

NHS Highland's Green Theatres
Project

Green Anaesthetists Group

Our Aim



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The objective is to achieve a 20% reduction in the overall number of surgical trays in circulation across NHS Scotland by March 2026.

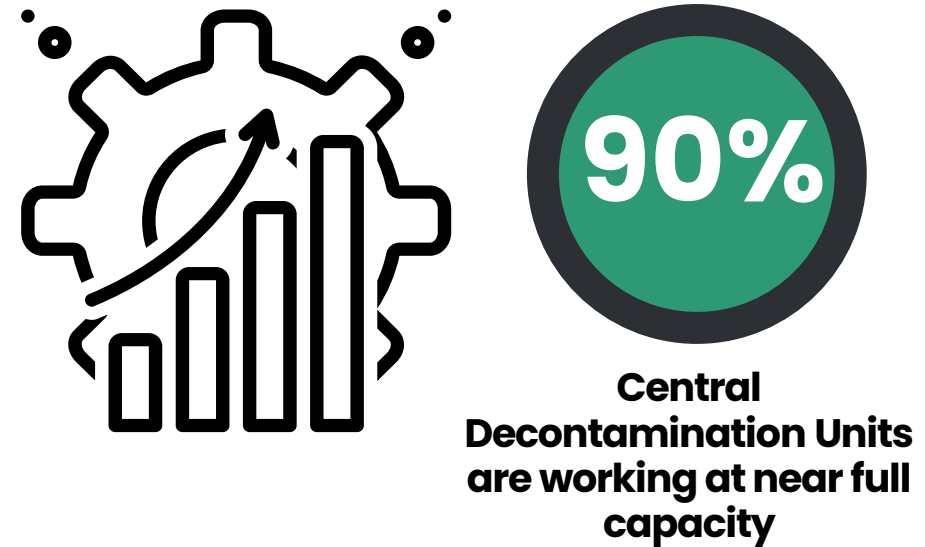
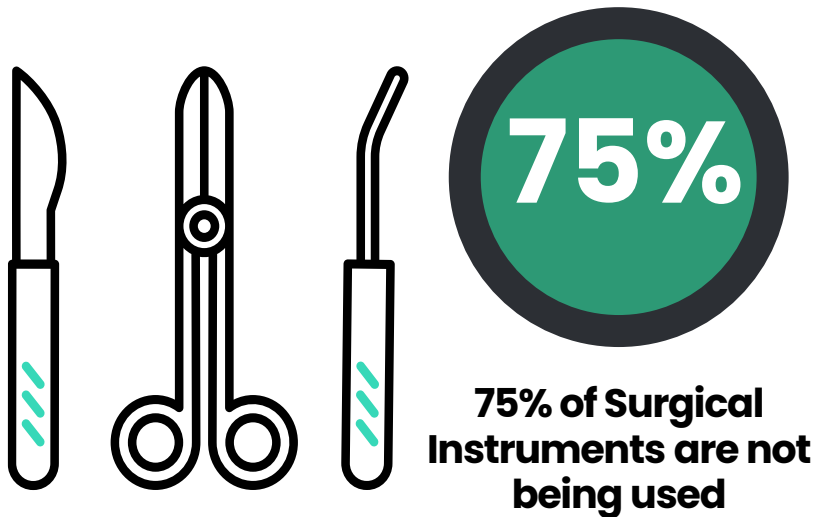
Lean Trays - Why is this important?



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¹]Avansino, J.R.; Goldin, A.B.; Risley, R.; Waldhausen, J.H.; Sawin, R.S. Standardization of operative equipment reduces cost. J. Pediatr. Surg. 2013, 48, 1843–1849.

²] Van Meter, M.M.; Adam, R.A. Costs associated with instrument sterilization in gynecologic surgery. Am. J. Obstet. Gynecol. 2016, 215, 652.e651–652.e655.

³] van Nieuwenhuizen, K. E., van Trier, T., Friedericy, H. J., Jansen, F. W., Dankelman, J., & van der Eijk, A. C. (2024). Optimising Surgical Instrument Trays for Sustainability and Patient Safety by Combining Actual Instrument Usage and Expert

Benefits of Lean Trays



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Instrument Lifespan

This will be achieved by removing unused instruments from surgical sets, reducing the number of times instruments are processed, hence, extending the lifespan of the instruments



Reduction in Tray Size

By auditing and streamlining surgical sets this will create the conditions for clinical teams to reduce the size of their surgical trays, less instruments, less space required to store them and process them.



Environmentally Friendly Practice

Auditing instrument usage will identify instruments that may benefit from being migrated into standard sets as opposed to sitting as a supplementary item



Reusable Alternatives

Creating space on surgical sets will allow conversations to take place with clinicians and the relevant stakeholders to investigate current single use instruments to determine if there is merit in migrating certain instruments to reusable alternatives.



Theatre Efficiencies

Surgical sets place significant load on the SSD, portering and theatre staff who must transport, handle and maneuver these sets. A reduction in the volume and weight will reduce the risk of musculoskeletal injuries.



MSK Injuries

With fewer trays and instruments to count and check before, during and after surgery, theatre staff would spend less time on this task allowing for greater efficiencies peri-operatively.

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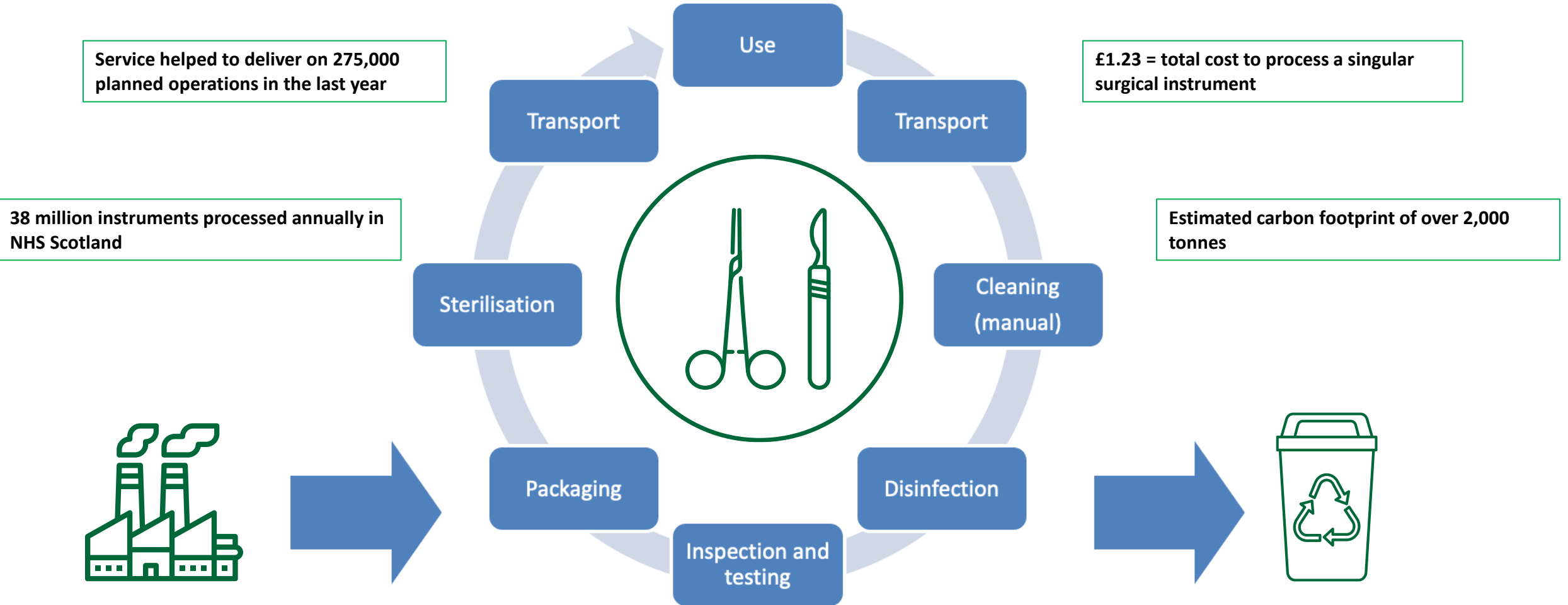
Working life of Surgical Instruments



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What can we do?



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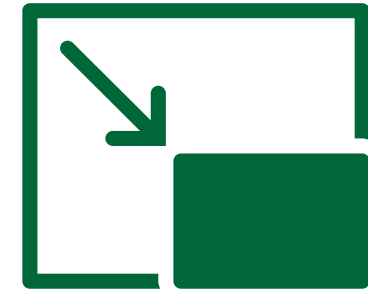
Rationalise instruments being used

- Stops unnecessary cleaning and transport of unused items
- Space for reusable items to be considered



Reduce the NUMBER of the Trays in a set

- This means more trays can be processed in each cycle of the washer
- Consider conversion or complex trays or sets



Reduce the SIZE of the Tray

- Smaller din baskets means more trays can be processed in each cycle of the washer

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Lean Trays- Our Plan

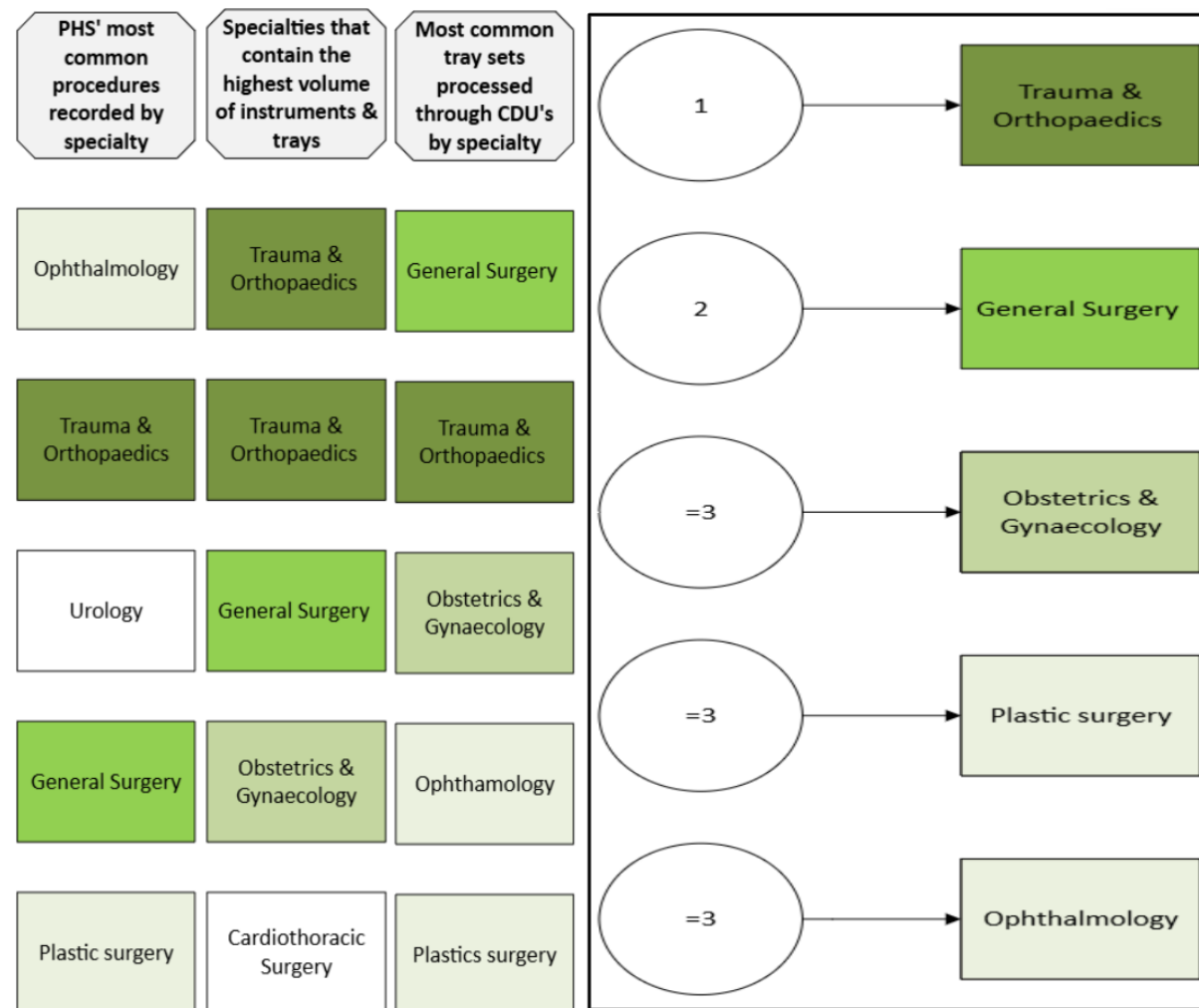


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- Identified high volume high impact areas to target first
- Worked with CDU's and conducted a comparative analysis with Public Health Scotland's Data on most common elective procedures
- Recommendation to initially focuses on the these top 5 specialties
- NGTP will engage with these specialties through existing Specialty Delivery Groups



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LEAN TRAY TOOLKIT



OUR NETWORK

NGTP

The National Green Theatre Programme have developed this toolkit for distribution and use across NHS Scotland

Lean Tray Stewards

Identify Lean Tray Steward within each specialty, and a Champion in local boards to coordinate the work

CDU Contact

The programme has identified a key contact within each CDU that will support the work.

Engage Suppliers

Some trays will require supplier input for redesign process, such as consignment trays. Contact them early.

SharePoint

All resources can be found on our SharePoint site. Including data and local success stories



DIGITAL LEARNING PROCESS

1



Identify Tray

Tray identification can be based on:

- High volume/ high impact trays
- Large tray sets
- Procedure specific
- Generic Trays

2



Planning

You will need:

- Instrument List
- Tray Photograph Template Workbook is provided for your project planning.

EXCEL
TEMPLATE

3



Data Collection

Distribute your form or excel template. All consultants who use the tray set should be consulted. Ask your colleagues to rank instrument utilisation as: Always Used / Often used / Rarely Used / Never Use

4



Implement

Identify instruments to:

- Keep / Remove
- Add supplementaries
- Consider conversion / complex tray

Design a leaned tray in consultation with your CDU point of contact Capture tray photograph.

5



Feedback

Gather feedback from Lean tray champion should monitor for any issues and adjust as necessary. Template available below

FORM
TEMPLATE



OPTIONAL

Generic Trays

Generic trays are often used for many procedures within the specialty or shared by specialties

Additional Data

Gathering additional data may benefit the lean process by auditing instrument use in real time, capturing a range of procedures and surgeons

Template

A template form is linked allowing teams to Audit and Re-audit instrument use.

FORM
TEMPLATE

Distribution

Generate a QR code for your audit form and display in your theatres. Ask the team to complete the form at every tray use

Template

Combine the Audit data with your Digital Learning Process to design your Leaned Tray



MEASUREMENT

What to measure?

Record all trays leaned, including the overall reduction in trays, size, instruments and supplementaries

Local

Lean Tray Champions should record their teams progress and feedback to their Specialty Steward

National

Stewards are invited to update our national spreadsheet outlining progress across specialties

LINK

SDG

Your teams progress with the Lean Trays Project will be discussed as part of the SDG

Share Your Trays

Share examples of good practice or successful leaned trays through the SDG or [SharePoint](#)

Lean Tray - Tayside Plastics - Minor

Search for tools, help, and more (Alt + Q)

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Add-ins

U15

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3	Tray_Name	Instrument_description	Always Used	Often Used	Rarely Used	Never Used	Decision Outcome	Keep / Remove / Supplementray / Conversion Tray / Other				
4		Towel Clip (x4)	1	4	3	0	Keep	reduce ?				
5		Scalpel BP	3	4	1	0	Keep					
6		Scalpel Barrons	4	3	1	0	Keep					
7		Addison Forceps	8	0	0	0	Keep					
8		Gilles Forceps	1	3	3	1	Keep					
9		Mcindoe forceps (non toothed)	0	3	3	2	Keep					
10		Scissors (sharp point)	5	1	1	1	Keep					
11		Scissors Tenotomy	4	3	0	1	Keep					
12		Curved Scissors Strabismus	1	2	3	2	Remove					
13		Kilner Straight scissors	0	3	4	1	Remove					
14		Mayo Straight scissors	2	2	4	0	Remove	Consider reducing size?				
15		Mosquito artery forceps (x5)	1	4	3	0	Other	Reduce to ? 4				
16		Sinus Lister curved (x2)	0	1	2	5	Remove					
17		Needle Holder Halsey	7	1	0	0	Keep					
18		Needle Holder Foster Gillies	2	2	3	1	Keep	****				
19		Pen Somerlad	0	1	0	7	Remove					
20		Gillies Skin Hooks Large (x2)	3	3	1	1	Keep					
21		Gillies Skin Hooks Small (x2)	3	3	2	0	Remove					
22		Rake Kilner (Cats Paws) (x2)	4	3	1	0	Keep					
23		Bipolar	8	0	0	0	Keep					
24		Quiver	4	4	0	0	Keep					
25		Kidney Dish (8 inch)	3	3	2	0	Keep					
26		Gallipot 60mls x1	2	3	2	1	Remove					
27		Gallipot 250mls (x3)	3	4	1	0	Other	reduce to 2				
28			0	0	0	0						
29			0	0	0	0						
30			0	0	0	0						
31			0	0	0	0						
32			0	0	0	0						
33			0	0	0	0						
34			0	0	0	0						
35			0	0	0	0						
36			0	0	0	0						
37			0	0	0	0						

36%

31%

21%

12%

Always Used

Often Used

Rarely Used

Never Used

Example:	Tray_Name	Instrument_description	Always Used	Often
	SIOP011 CATARACT SET	WRAP QUICK CHECK H400 91CM x 91CM	3	
		BOX STERILISING	1	
		FORCEPS SPONGE HOLDING RAMPLEYS 7 WITH SPONGE"	4	
		SCISSORS IRIS STRAIGHT SHARP POINTED 3.5	1	
		FORCEPS ARTERY HALSTEADS MOSQUITO CURVED 9CM	0	
		NEEDLEHOLDER CASTROVIEJO 216mm	0	
		NEEDLEHOLDER LIMS ROUND BODIED	3	
		HANDLE BARD PARKER No 3 5	0	
		MANIPULATOR TRIPLE CHOPPER & MUSHROOM 0109308 or A2302 or 6-08	3	
		HOOK CLAYMAN S/E A2300 OR D4020	1	
		HOOK MALTZMAN FENZL S/E A2305	0	
		FORCEPS SUTURE & CONJUNCTIVAL LISTER B951/D401/A5502	3	
		FORCEPS MOORFIELDS 0101543/A5500/0101542	1	

Instructions

Key Contacts

Outcome Report

Responses

Leaned Tray

BM

AL

SW

SJ

MH

MN

DAM

DJ

Clinician 9

Clinician 10

+



Lean Tray - Tayside Plastics - Minor									
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037									
	A	B	C	D	E	F	G	H	I
1		New Leaned Tray - Plastics Minor			Removed Items				
2		Towel Clip (x4)	Keep		Curved Scissors Strabismus	Remove			
3		Scalpel BP	Keep		Kilner Straight scissors	Remove			
4		Scalpel Barrons	Keep		Mayo Straight scissors	Remove			
5		Addison Forceps	Keep		Sinus Lister curved (x2)	Remove			
6		Gilles Forceps	Keep		Pen Somerlad	Remove			
7		Mcindoe forceps (non toothed)	Keep		Gillies Skin Hooks Small (x2)	Remove			
8		Scissors (sharp point)	Keep		Gallipot 60mls x1	Remove			
9		Scissors Tenotomy	Keep		Gallipot 250mls (x1)	Remove			
10		Mosquito artery forceps (reduce to 4)	Other		Gallipot 60mls x1	Remove			
11		Needle Holder Halsey	Keep						
12		Needle Holder Foster Gillies	Keep		Total Instruments Removed	9			
13		Gillies Skin Hooks Large (x2)	Keep		Total Single Use Plastic Removed	2			
14		Rake Kilner (Cats Paws) (x2)	Keep						
15		Bipolar	Keep						
16		Single Use Plastic Items							
17		Quiver	Keep						
18		Kidney Dish (8 inch)	Keep						
19		Gallipot 250mls (reduce to 2)	Other						
20									
21		Total Instruments Kept	22 instruments						
22		Single use plastic items kept	4						
23									
24									
25		% reduction surgical instruments	29%						
26		% reduction single use plastic	33%						
27									
28		Potential to Reduce to smaller tray?							
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									

Lean Tray - Tayside Plastics - Minor

Search for tools, help, and more (Alt + Q)

Comments

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Sort & Find & Filter

Editing


Add-Ins

Add-ins


Health_Board	Hospital_Site	Tray_set_name	Pre_leaning_data>	No_of_sets_in_circulation	No_of_trays_in_set	No_of_instruments_in_set	Post_leaning_data>>	No_of_leaned_sets_in_circulation	No_of_trays_in_set	No_of_instruments_in_set	Were you able to reduce tray size (Yes/No)	How many trays were reduced in size?
Tayside	Ninewells	Plastics Minor		21	1	31		10	1	22	Yes	1



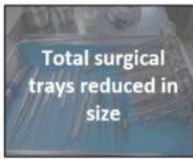
1.531 kgCO2e per procedure*



9



0




1

*Carbon savings based on Rizan et al (2021) paper that calculates the carbon associated with the decontamination of a surgical tray with an average of 29 instruments as 1.532kg/CO2e

**Carbon savings are approximate and will vary depending on efficiency of machine loading within CDU's

*Assumed carbon saving of 0.052kg/CO2e per instrument as part of a set.

INSERT IMAGES OF ORIGINAL TRAY SETS BELOW:



INSERT IMAGES LEANED TRAY SETS BELOW:

PLEASE INCLUDE LIST OF ITEMS IN LEANED SURGICAL SET

InstructionsKey ContactsOutcome ReportResponsesLeaned TrayBMALSWJSJMHMNDAMDJClinician 9Clinician 10

Progress & Next steps...



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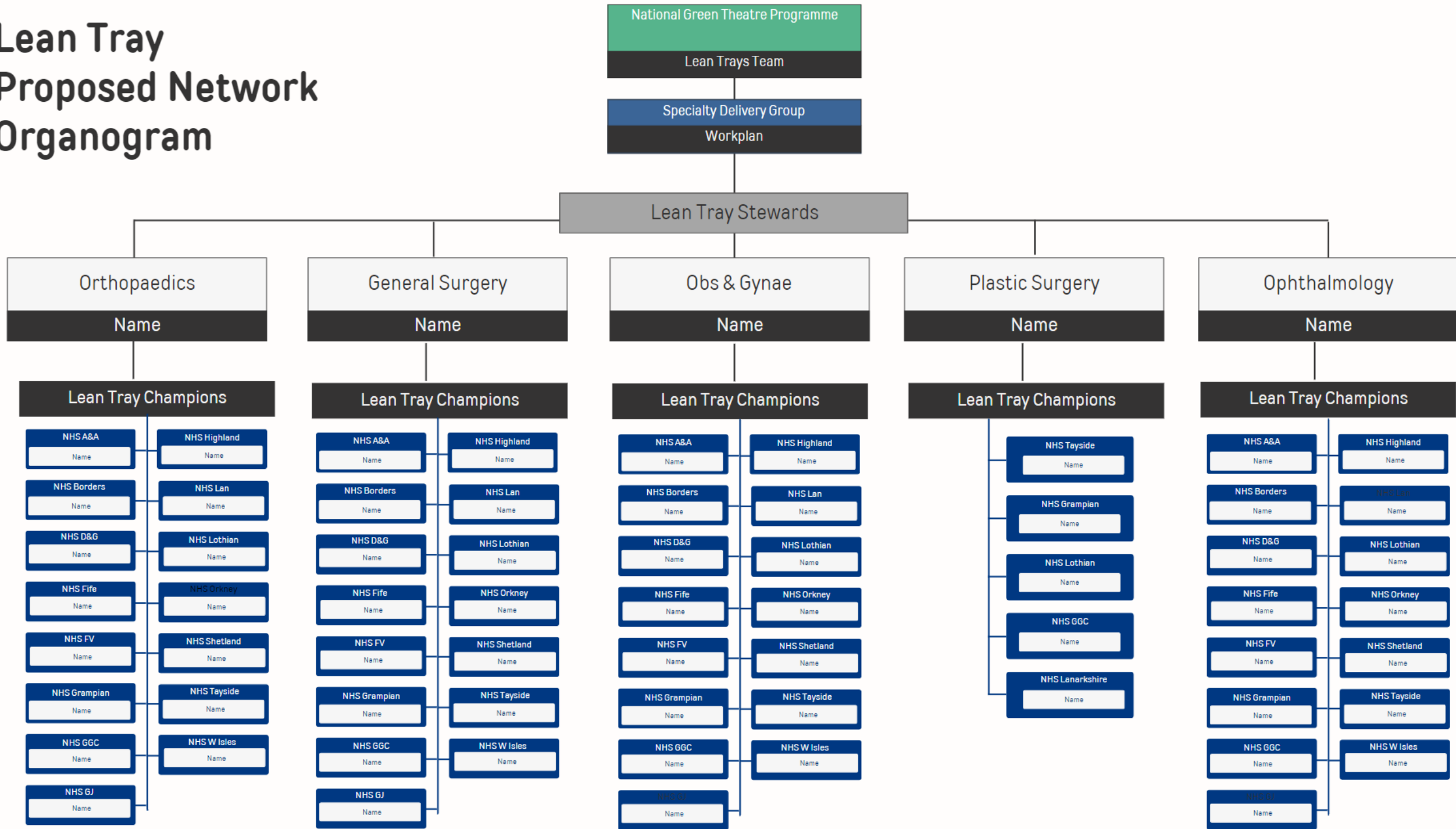
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Plastics does not have an SDG but our clinical fellow is a plastics registrar.
Andy Maylon (Medical Devices & Legislation Unit, SG) provided details of all plastics clinical leads.

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Lean Tray Proposed Network Organogram





Adopt this project into your departments as Lean Tray Champions



Identify your high volume high impact surgical trays



Identify a Lean Tray Steward within the SDG to take forward the work

integrating into the SDG workplan for 25/26

Case Examples Across Scotland



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Orthopaedics

C.Gee Golden Jubilee RA- TKA

Tray Reduction
20%
5 to 4

Instrument Reduction
30%
52 to 36

Conversion Tray
4%

Orthopaedics

P.Moses Forth Valley TKA

Tray Reduction
38%
4 to 2.5

Plastic Surgery

D.Jordan Tayside Lumps and Bumps

Tray Size Reduction
50%
30x60 to 30x30

Instrument reduction
59%
27 to 11

Ophthalmology

Borders Cataract Trays

Reduced Tray Size
from 2x2 to 2x1

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NHS Tayside Plastic Surgery Dept

Trialed Lean Trays
methodology on three
highest use trays

- 1- Plastic Minors [1462]
- 2- Plastic Basic [801]
- 3- Hand Tray [63]



Plastic Minor Tray

Instrument Reduction 29%
31 to 22

Single Use Plastic Reduction 33%

Tray Size reduction 50%
From 60x60 to 30x60

Associated Cost Avoidance
£32,208 Annually

Associated Carbon Avoidance
1249 kg/CO₂e



Plastic Basic Tray

Instrument Reduction 39%
61 to 37

Single Use Plastic Reduction 33%

Tray Size – n/a

Associated Cost Avoidance
£23,796 Annually

Associated Carbon Avoidance
1094 kg/CO₂e



Hand Tray*

Instrument Reduction 38%
47 to 29

Single Use Plastic Reduction 33%

Tray Size – n/a

Associated Cost Avoidance
£1411 Annually*

Associated Carbon Avoidance
72 kg/CO₂e*



The Challenges : Clinical View



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Clinical engagement difficult due to workload and commitments



Lack of clinician understanding of decontamination processes and capacity



Departmental consensus on 'Leaned Tray' : team majority with adjustments



Time consuming process for clinical team which risks no or minimal leaning achievable

Next Steps



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Continue clinical engagement with decontamination support



Upcoming workshops – Specialty specific, Board Specific



Grow network of Lean Tray Stewards and Champions across specialties

✓ NHS Scotland – [Lean Tray Project Website](#)

✓ CfSD National Green Theatres Programme: Actions for Implementation- [Lean](#)

[Tray Resources](#)

- Workbook
- Toolkit
- Action for Implementation

✓ National Green Theatre Programme. Lean Tray Project Group

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Next Steps



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Contact the NGTP Lean Tray Implementation Team for further information



Collaborate. Redesign. Innovate. Transform.



Keynote Presentation

Scotland's Medical Device Decontamination Seminar 2025

Tuesday 13th May 2025
8:00am - 4:00pm
Golden Jubilee Conference Hotel



Dr. Sulisti Holmes

Head of Decontamination and Incident Investigation Reporting
Centre
NHS Scotland Assure



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Q&A



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Closing Remarks