NHS Wales Shared Services Partnership

BUSINESS REVIEW





Agenda

NWSSP September 2023



Contract Review

Introduction

Pilot Review

- Sustainability Metrics
- Commercial Overview
- Usage KPI's
 Waste Volumes
 Container Turns
- Pilot and User Feedback
- Needlestick incident review
- Commercial Opportunity and next steps

Your Sharpsmart Team

The team proud to partner with you:



Kerry Higgins
Commercial Operations
Manager



Joe Proctor
Field Service Manager



Shaun Vause
Southern Operations
Manager



Guy WingContract Manager

Environmental Impact of the Sharpsmart Safety Engineered Device



Over 3 months we have prevented the purchase of 1,235 sharps containers

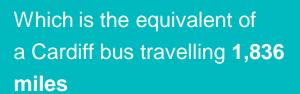


Meaning **0.73 tonnes of single-use plastics** have not been produced and incinerated



Saving 4.08 tonnes of C02 emissions.









Pilot Performance vs Proposal forecast

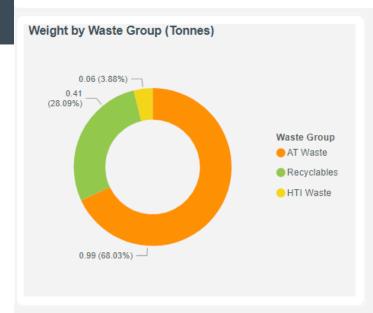
Option One: Fixed Monthly Fee

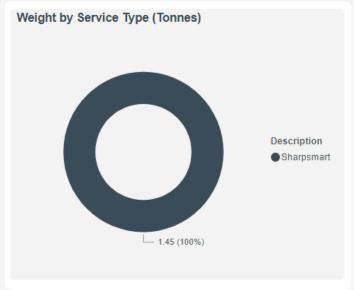
Following from the provision of accurate data for the current usage of sharps containers

Sharpsmart have calculated the forecast monthly cost of supplying reusable containers, based on the
required number of container 'turns'. This will be charged at a fixed monthly fee covering the supply and
collection of the Sharpsmart system based on 1/12th of annual forecasted usage. (see Appendix 1)

Estimated Mont Container Turn				hly Wa utput	aste		nthly te Fee	Мо	otal nthly ee			
112	£	966.59	().586		£	198.52	£ 1,4	465.11	l		
Spend Group	TI Waste Other Recyclables	■Trend						•		•		
		£1.1K		_	£1.4K	_	_	£1.2	K		£	£1.3K
E1K	£0.5K	£1.0K			£1.0K			£0.88			Œ	1.0K
£1K	2023 March	2023 Apr			2023 Ma	v		2023 J	une		20	23 July
						Date	e (Months)					
Account Name	Site Name	Spend Group	Year Charge Type	2023 March	April	May	June	July	August	Total	Total •	
☐ Wrexham Maelor Hospital	□ Wrexham Maelor Hospital			£516.62	£966.59	£966.59	£759.28	£966.59	-£805.49	£3,370.18		
					£103.26	£269.26	£254.24	£212.81		£839.57	£839.57	
		AT Waste				0444.00	0450.07	004.50		00.40.00	0040.00	
		⊞ Recyclable			£20.16	£114.66	£150.37	£61.50		£346.69	£346.69	
		⊞ Recyclable⊞ HTI Waste		£516.62	£20.16 £4.05	£6.85	£9.71	£32.92	£805 //9	£53.53	£53.53	
	Total	⊞ Recyclable			£20.16	£6.85 £1,357.36	£9.71 £1,173.60	£32.92 £1,273.82		£53.53 £4,609.97	£53.53 £4,609.97	

«







Cu	stomerName	Containers Emptied
+	Wrexham Maelor Hospital	563
	Total	563

Account Name	Weight (Tonnes) ▼
	1.45
Total	1.45

Account Name	Total Spend (£) Exc VAT ▼
⊕ Wrexham Maelor Hospital	£4,609.97
Total	£4,609.97
	,

Trial progress log

Department Name	Provide a description of the challenge	How the Challenge was rectified	Date completed
Erddigg Ward	IPC think that S14 on drugs trolley is unsafe	Sharpsmart to fit 4 x plate and cradle	04/04/2023
Theatre 1 (Gastro)	Sister believes that having MR64 with used instruments in Theatre is a smell/ hygeine risk	Additional 64 Floorstand used for MR64 to be used outside of Theatre	24/03/2023
Labour Ward	Single-use metal are generated in MLU and Sluice	MR14 added to MLU room and MR64 to Sluice	24/03/2023
Erddigg Ward	Department is filling S14s quickly due to putting in bags & lines, there is only 1 S32 in Clean Utility. Sometimes several staff will be removing lvs	Additional S32 on CS1T placed in each of the 2 8 bed	04/04/2023
Theatre 4	Theatre Lead (Rachel) preferes MR64 to be kept outside of theatre due to space restrictions when using Accessmart	Floorstand provided so that MR64 used outside theatre	04/04/2023
Labour Ward	Hawen (sister) has reservations about uing the system as blood can be visible on the safety tray	Reassurances given that: a) previous sharps containers would be the same b) when not in use, the temporary closure can be used	04/04/2023
Erddigg Ward/ Simpson Ward/ Lawson Tait	S14 containers were filling very quickly due to IV bags and lines	IN64 containers have been set up in sluice room of each ward	19/05/2023
Theatres	Theatre B had clean and full containers stored in same place, staff thought that they had run out of clean containers when they were already there	Clean and full storage points have been separated	11/05/2023

Wrexham Maelor Trial Update

80 participants have responded to the evaluation survey.

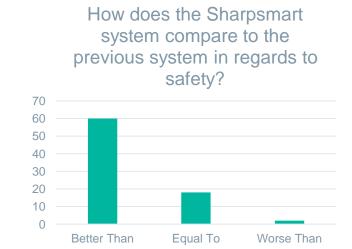
"Much better- more sustainable and less waste. Happy that it's being recycled" Theatre Practitioner

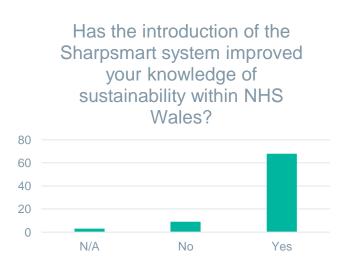
"Before training it was difficult to close. A 'How to Close' guide would be great laminated in each area pls." Scrub Nurse- Theatres "Stronger more hard wearing than previous sharps boxes" Midwife- Blairbell

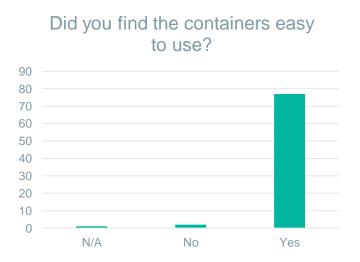
"Hope we get to keep them." Lead Midwife MLU

"A GREAT IDEA TO COLLECT SHARPS WASTE, AND HOPEFULLY WILL BE IMPLEMENTED AT THE WREXHAM MAELOR HOSPITAL IN THR NEAR FUTURE" Porter

"Frees up storage required for plastic sharps (A plus for Health & Safety). Stick injuries I feel would be reduced due to the "full" paddle closing automatically" Housekeeper- Bonney







Optimised Container Mapping | Department Specification



Department Type: 3. NHS Wales Operating Theatre Suites

CONTAINER & ACCESSORIES SHARPSMART DISPOSAL POINTS











CLEAN CONTAINER STORAGE POINTS

THEATRE A: STORES CUPBOARD THEATRE B: CUPBOARD

FULL CONTAINER STORAGE POINTS

THEATRE A: DISPOSAL HOLD THEATRE B: RACKING IN CORRIDOR

Auditsmart Reports help continuous improvement

	Segre	gration	Action By
	Findings	Recommended Action	
97.0%	Segregation good, but some containers contained gloves/soft clinical waste	Complement staff on great segregation, note exception.	Trust

	Fill Opti	misation	Action By
	Findings	Recommended Action	
96.0%	All containers filled to optimum or near optimum level	Complement staff on filling containers appropriately	Trust

	Waste Consignment Compliance (Locking & Labelling)					
	Findings	Recommended Action				
80.0%	Some containers were not locked and labelled accordingly	Advise staff of the importance of permanently locking and labelling the containers once full	Trust			

Each month, 10 containers are audited and scored on Segregation, Fill Optimization and Compliance

These audits, along with weekly/ fortnightly site visits have allowed the trial to follow a **continuous improvement plan**.

During the pilot **0.44 tonnes** of material was collected for metal recycling

Hospital	Dept Audit Date		Open	Close	Audite			
Wrexham	Th6 02/06/2023 21/03/2023 30/09		30/05/2023					
SS Model	Fill % Waste Category Segregation %				П			
MR64 Green	MR64 Green 50 18.01.03/09 100							
	Auditsmart Comments & Follow Up Actions							
Segregration	1. Segregation Excellent							
Segregiation	1. No action required, staff sho	ould be complimented			1			
Fill Efficiency	2. Sharpsmart closed down pre	ematurely by staff						
Fill Efficiency	2. Train staff on closure of Sharpsmarts to maximize volume							
Labelling & Closure	1. Units labelled, closed and lo	cked in accordance with proc	cedures					
Labelling & Closure	1. No action required, staff sho	ould be complimented			_			



Sharpsmart business overview

Sharpsmart clean processing facility:





Sharpsmart clinical & sharps waste processing:





- Patented Reusable Sharps Containment System / Safety Device
- 100+ hospital sites serviced (45 Trusts)
- 2,500+ non-acute sites serviced
- Circa 1m exchanges in the UK annually
- 3 'Clean' Sharpsmart Production Facilities
- 3 AT 'Waste Processing' Facilities
- 1 x Dedicated Patented Sharps Treatment (Disposal) System
- £21m investment programme

Our Treatment Infrastructure

	Rainham	Stoke	Normanton	Spennymoor
SERVICE CAPABILITIES:				
Clinical Waste Transfer Station	✓	✓	✓	✓
Clinical Waste Alternative Treatment (AT)	✓	×	✓	Planning Approved, Permit Pending
Sharps Waste Treatment	×	✓	×	×
Reusable Container Processing	√	✓	×	✓



Delivering Resilience And Innovation For Wales

Forecast Savings based on NWSSP data for 20-21 for all Wales Acute Hospitals

Account:	t: NHS WALES SHARED SERVICES PARTERNSHIP			ite:	21/12/2021	0		
	Current Hospital Sharps Management Dynamic Overview							
	Bed Numbers Avg. Burn Bin Cost per Bed / Annum Incineration Costs £/Tonne							
	10,340	£161.48			£610.00			

Current Service Dynamics Using Burn Bins (Annual Figures)	Values (Estimated Prior Year)
Burn Bin Numbers (per Annum)	562,454
Usable Volume (Litres)	3,953,095
Burn Bin Tonnage	480.74
Sharps Weight Tonnage	937.59
Total Waste Tonnage	1,418.33
Cost of Incineration	£865,183.23
Burn Bin Expenditure	£1,669,690.43
Total Current Cost of Sharps Management	£2,534,873.66
Lifecycle CO2e per Annum (Tonnes)	3,071.93
Needle Stick Injuries per Annum	1,530.32

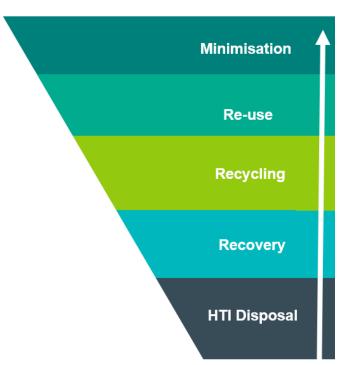
Sharpsmart Ltd Service	Value (First Year)	Sharpsmart Reductions	
Sharpsmart Unit Turns (Fig 1)	183,974	378,480	67%
Usable Volume (Litres)	3,953,095	0	0%
Burn Bin Tonnage	0	480.74	100%
Sharps Weight Tonnage	937.59	0	0%
Total Waste Tonnage	937.59	480.74	34%
Cost of Incineration (Fig 2)	£792,266.18	£72,917.05	8%
Sharpsmart Service Cost	£1,689,981.31	-£20,290.88	-1%
New Cost of Sharps Management	£2,482,247.50	£52,626.16	2%
Lifecycle CO2e per Annum (Tonnes)	337.48	2,734.45	89%
Needle Stick Injuries per Annum	1,117.13	413.19	27%

Highlights:

- NHS Wales currently buy and burn
 480.74 tonnes of single-use
 plastic containers
- Estimated 2734.45 tonnes CO2e to be saved through the switch to re-usables
- Estimated reduction of 413 needlestick injuries per year
- Estimated savings of 2% or £52,626 per year

Delivering on the NHS Wales Decarbonisation Strategy: **BCUHB**

	Initiative	Actions
45	We will develop 'plastics in healthcare' initiatives to address waste in the delivery of health care - this will aim to tackle PPE, single use plastics, and packaging waste.	Consult industry partners, clinicians, recycling experts and literature to develop initiatives to reduce the use of single-use plastics in healthcare where possible and increase the potential for recycling and reuse. Ideally, this will be partially addressed through a shift in procurement practices where feasible, as outlined in initiatives 26-30.



- ✓ Eliminating the annual consumption of 44 tonnes of single-use containers
- √ 82,208 disposable containers per year replaced by reusable containers
- ✓ Recycling 2.8 tonnes of single-use instruments in MR containers (2% of total)
- Medicinally contaminated sharps all process through energy recovery
- ✓ Pharmaceutical and cytotoxic waste streams only

THANK YOU



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Closed loop 'R-code' Sharps Treatment Process

