

Freedom of Information Request	FOI 21-317	18 th August 2021
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1. Does your organisation currently purchase any of the following or similar disinfection systems:

· **Hydrogen Peroxide Vapour Disinfection Systems**

Yes

· **Mobile Ultraviolet Light Disinfection Systems**

Yes

· **Electrostatic Disinfection Systems**

No

2. From which suppliers do you obtain these systems, and can you confirm the spend in the last 2 years?

Hydrogen Peroxide Vapour Disinfection Systems

Inivos Ltd - £104,000

Mobile Ultraviolet Light Disinfection Systems

Gama Healthcare Ltd - £81,000

3. Were these systems purchased through a tender or framework? If so, which one? Please provide the following details:

Hydrogen Peroxide Vapour Disinfection Systems

Name: ESPO Framework - Total Cleaning Services Solutions

Reference: 263 - Lot 1C

Where this was published: N/A – Direct award via above framework

Mobile Ultraviolet Light Disinfection Systems

Name: Countess of Chester Hospital NHS Foundation Trust, Commercial Procurement Services – UV-C Cleaning Solutions

Reference: F/040/ABU/02.09

Where this was published: N/A – Direct award via above framework

4. Are you under contract with your current supplier(s) for the above? If so, what is the start and end date(s) of the contract(s)?

No

5. Can you provide the name and contact details for the person(s) responsible for procuring these systems?

Robert Type, Interim Head of Procurement

Rob.Type@wales.nhs.uk

6. Can you provide contact details for the department responsible for managing this service or more broadly infection, prevention, and control?

Rhiannon Jones, Director of Nursing
Rhiannon.Jones2@wales.nhs.uk

7. Within this sector, are peer-reviewed studies considered a part of your selection for suppliers?

This may be taken into consideration as and when a system is being purchased.

8. Many ultraviolet disinfection systems use Mercury bulbs - can you confirm if your systems use these alongside your associated environmental management procedures?

Please find attached product information.

9. How many Hospital Acquired Infections (HAI) have there been in the last 2 years?

Please find below a link to the All Wales data

https://rytu6srvtabl001.cymru.nhs.uk/views/WalesHBAHHCAIMonthlyUpdate2021-22-NHS/WalesHCAIMonthlyUpdate?iframeSizedToWindow=true&:embed=y&:showAppBanner=false&:display_count=no&:showVizHome=no

10. What are the types of HAIs?

National reporting include gram positive, gram negative bacteraemia and C difficile infection.

11. What is the cost per HAI?

It is not possible to provide this information as each case is different. However I have provided links below which you may find of interest.

<https://bmjopen.bmj.com/content/10/1/e033367>

<https://www.nice.org.uk/guidance/cg139/chapter/introduction>

12. What would be a reasonable cost per room for disinfection?

Single room cost for:

HPV:

Without en-suite: £93.94

With en-suite: £106.74

UV:

Without en-suite: £64.94

With en-suite: £77.74

13. How long does it take to turnover a room?

Without en-suite $2\frac{3}{4}$ hrs

With en-suite: $3\frac{1}{2}$ hrs

14. What percentage of surfaces get disinfected during a room turnover?

100%

15. What log reduction is expected for surface disinfection?

Please find below the information from the relevant supplier:

Results

Test Conditions

Date	20 th September 2016	Challenge Micro-organisms	<i>Bacillus atrophaeus</i> NCTC 10073
Operators	Anna Moy	Suspension Fluid	Sterile Distilled Water
		Concentration	10 ⁸ cfu/ml (10µl)

Results

Location	Coupon No.	Colony Forming Units			Average Total cfu	Log Reduction
		N	1ml	Rest		
2m from device	1	0 , 0	0	0	<1	>6.44
	2	0 , 0	0	0		
	3	Negative				
By glove ports	1	0 , 0	0	0	<1	>6.44
	2	0 , 0	0	0		
	3	Negative				

Test Conditions

Date	21 st September 2016	Challenge Micro-organisms	<i>Clostridium difficile</i>
Operators	Anna Moy	Suspension Fluid	Sterile Distilled Water
		Concentration	10 ⁸ cfu/ml (10µl)

Results

Location	Coupon No.	Colony Forming Units			Average Total cfu	Log Reduction
		N	1ml	Rest		
2m from device	1	0 , 0	0	0	<1	>6.12
	2	0 , 0	0	0		
	3					
By glove ports	1	0 , 0	0	0	<1	>6.12
	2	0 , 0	0	0		
	3					