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| Reference: | FOI.13681.24 |
| Subject: | Pathogens |
| Date of Request: | 29 January 2024 |

Requested:

1. Do(es) your hospital(s) have a solution to eliminate pathogens from the air?
 - a. In which departments?
 - b. In which rooms?

2. What technology(ies) are in use?:
 - a. Air circulation with Ultra Violet (UV)
 - b. Air Circulation with Air Filter
 - c. Air Circulation with Air Filter and UV
 - d. HVAC with UV
 - e. HVAC without UV
 - f. Other (Which technology?)

3. Do(es) your hospital(s) have a solution to eliminate pathogens from the surfaces?
 - a. In which departments?
 - b. In which rooms?

4. What technology(ies) are in use to kill pathogens?:
 - a. UV
 - i. What wavelength
 - ii. In which areas of the hospital?
 - b. Antimicrobial coating
 - i. Which coating materials?
 - ii. In which areas of the hospital?
 - c. Antimicrobial cleaning products
 - i. Which chemicals?
 - ii. In which areas of the hospital?
 - d. Antimicrobial materials
 - i. Which materials
 - ii. In which areas of the hospital?
 - e. HVAC with UV
 - f. HVAC without UV
 - g. Other (Which technology?)

5. What are the three most important areas to have a solution to kill pathogens from the air?

6. What are the three most important areas to have a solution to kill pathogens from the surfaces?

7. Which department(s) / professional(s) make(s) the procurement decisions regarding solutions to kill pathogens from the air? Infection Prevention and Control (IPC), Facilities Management or other (which?)

8. Which department(s) / professional(s) make(s) the procurement decisions regarding solutions to kill pathogens from the surfaces? Infection Prevention and Control, Facilities Management or other (which?)

9. Do you have an Infection Prevention and Control department or is(are) designated members of staff managing it?
10. Are you planning to purchase a solution to kill pathogens from the air on the next
 - 12 months?
 - 24 months?
11. Are you planning to purchase a solution to kill pathogens from the surfaces on the next
 - 12 months?
 - 24 months?
12. Are you planning to purchase a solution to improve clinician hand hygiene on the next
 - 12 months?
 - 24 months?
13. What are your Infection Prevention and control targets for the next five years?
(Ex.: reduce number of Hospital Acquired Infections reductions by x% (n), increase clinicians hands hygiene rate by x%, reduce pathogens levels from the air in patient areas by x%, reduce pathogens levels from the air in public areas by x%, reduce pathogens levels from the surfaces in patient areas by x%, reduce pathogens levels from the surfaces in public areas by x%...)

Response:

1. Hywel Dda University Health Board (UHB) confirms that it does have a solution to eliminate pathogens from the air, as below:
 - a. In all departments where deemed necessary, such as known infection risk or areas where increased incidence of infection has been identified (patients or staff).
 - b. In all rooms identified as requiring mechanical air filtration, including staff rooms.
2. The UHB uses Air Circulation with AV Filter and UV technologies used to eliminate airborne pathogens. UVC is used for terminal cleaning following infection/outbreak etc., and air purifiers (Hepa 14 filtration) are strategically placed in areas where infection is known to be present, offering protection for patients and staff.
3. The UHB confirms that it does have a solution to eliminate pathogens from the surfaces.
 - a. Please see response to question 1a.
 - b. All rooms across the UHB.
4. The UHB confirms that it uses UV technology to kill pathogens. UVC is used for terminal cleaning following identification of certain known pathogens such as respiratory viruses, C.difficile, Multi Drug Resistant Organisms (MDRO) etc.
 - i. The UHB has confirmed with UVDI Technology that Violet generates artificial UV0C energy by ionizing low pressure mercury vapour in germicidal ultraviolet lamps. Ionizing mercury

emits a predominantly discrete wavelength of 254nm- in the UV-C band which is an ideal wavelength for destroying the DNA of single cell organisms.

- ii. Areas include inpatient areas, theatres, clinical areas and treatment rooms where required and any area where it is deemed necessary due to increased incidence of infection.
5. & 6. The most important areas and pathogens would be determined at the time of infection by use of a Risk Assessment.
 7. & 8. All decisions on IPC are made on an individual case basis, with decisions made by the relevant teams.
 9. The UHB confirms that it has an IPC Department.
 10. The UHB does not have plans to purchase solutions to kill pathogens from the air.
 11. The UHB does not have plans to purchase solutions to kill surface pathogens.
 12. The UHB does not have plans to purchase a solution to improve clinician hand hygiene.
 13. The UHB confirms that it has a zero tolerance to Hospital Acquired Infections (HAIs).