

## **The Requirement**

Frimley Health NHS Foundation Trust is looking to appoint a contractor to carry out operation theatre validations for 2017 based on HTM03-01 part A & B requirements. Each theatre will be closed for maintenance for one week, with the verification typically taking place on the Monday.

All operating theatres will require a separate site visit, with the exception of eight of Frimley's theatres which are validated in pairs and two at Heatherwood; this is due to the air handling units supplying more than one theatre.

### Theatre Numbers

Frimley Park – 13 conventional and 5 UCV theatres

Wexham – 10 conventional and 3 UCV theatres

Heatherwood – 3 conventional and 3 UCV theatres

(Theatre number and types can be found at the end of this document).

### Other Areas

There are other additional rooms/areas with critical air handling units on all three sites which will require verifying, dates for these will be arranged throughout the year; these do not require microbiological testing.

### Requirements for Conventional Operating Theatre

- Supply and extract airflow measurements in each theatre and associated peripheral rooms with subsequent calculation of air change rates
- Airflow measurements within the Recovery areas if applicable
- Pitot duct traverse to measure total quantities of fresh air supply (where possible)
- Pressure differentials across doors to provide the pressure cascade figures
- Electronic particle counting to assess the air filtration efficiency between inlet air and theatre supply air
- Noise measurements in the theatre and peripheral rooms, using a Type 1 sound meter
- Audit of air handling units in accordance with Appendix 1, Part B of HTM 03-01. This audit include a thorough internal and external visual inspection of all sections of the air handling unit to assess the condition of the unit and its associated services and plant
- Audit of the operating suite in accordance with Appendix 2, Part B of HTM 03-01
- UKAS accredited airborne microbiological sampling and enumeration in an empty theatre, to include 4 airborne sample plates and a control plate per theatre, incubated at 37oC for 24h+2h followed by 22oC for 24h+2h
- Full verification report

## Requirements for Ultra Clean Operating Theatre

- UCV discharge velocity test airflow measurements to be taken at all test positions at 1m and 2m below the UCV canopy
- Pitot duct traverse to measure total quantities of fresh air supply (where possible)
- Particle count check at the face of the HEPA filters and seals to check for potential leakage Paths
- UCV Entrainment testing of the UCV canopy using an electronic particle counter
- Noise measurements under UCV canopy and in peripheral rooms, using a Type 1 sound level meter
- Supply and extract airflow measurements in associated peripheral rooms
- Airflow measurements within the Recovery areas if applicable
- Pressure differentials across doors to provide the pressure cascade figures
- Audit of air handling unit in accordance with Appendix 1, Part B of HTM 03-01. These audits include a thorough internal and external visual inspection of all sections of the air handling unit to assess the condition of the unit and its associated services and plant
- Audit of the operating suite in accordance with Appendix 2, Part B of HTM 03-01
- Full verification report