

# GCS Medical College, Hospital and Research Centre

Opp. DRM Office, Nr. Chamunda Bridge, Naroda Road, Ahmedabad.

## Department of Microbiology

**Test report:** Microbial decontamination evaluation of operation theatre – MAJOR OT at GCS medical college & hospital, India.

**Equipment used:** Aerojet steriz dry fogging system manufactured & marketed by M/S.Radiant Enterprise.

**Fogging disinfectant used:** Huwasan TR-25,

Hydrogen peroxide & colloidal silver based environment disinfectant from Roam chemie NV, Belgium

**Trial volume :** 1600ml diluted solution of H<sub>2</sub>O<sub>2</sub> based disinfectant Huwasan (5% dilution of Huwasan in water )

(80ML Huwasan TR-25 in 1520ml of water)

**Space Disinfected:** 4000cuft.

**Fogging duration:** 32minutes.

**Trial date:** 04/01/2014. Time: 14.15


**Trial venue:** MAJOR OT –GCS Medical college and Hopsital,Ahmedabad, India.

### Observations:

1. Aerojet steriz fogging system kept in fixed location in one corner of OT was powerful enough to spread dry fog across the room of size 400sq ft (4000cuft).
2. H<sub>2</sub>O<sub>2</sub> detection test strips placed in various locations in OT detected Disinfecting fog at all locations validating uniform spread of dry aerosol fog across the room.
3. At the end of procedure no excessive wetness observed on floor, glass & medical equipment.

### Comment:

The microbial decontamination procedure carried out by Aerojet steriz with disinfectant Huwasan TR25 is satisfactory & the culture reports carried out by our microbiology laboratory are as shown below.

  
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### MAJOR OT - SWABS SAMPLE

NO.	SAMPLE	PRE FUMIGATION	POST FUMIGATION
1	OT TABLE	No organism isolated	No organism isolated
2	SUCTION BOTTLE	No organism isolated	No organism isolated
3	ANESTHESIA TROLLEY	No organism isolated	No organism isolated
4	LIGHT	No organism isolated	No organism isolated
5	FLOOR	Bacillus Subtilis isolated	No organism isolated

### MAJOR OT - AIR PLATE SAMPLE

NO	SAMPLE	PRE FUMIGATION	POST FUMIGATION
1	Central area	Bacillus Subtilis isolated • (Colony count -9 cfu) Coagulase negative Staphylococcus isolated • (Colony count -27 cfu)	Bacillus Subtilis isolated • (Colony count -2 cfu) Coagulase negative Staphylococcus isolated • (Colony count -3 cfu)
2	Entrance	Bacillus Subtilis isolated • (Colony count -1 cfu) Coagulase negative Staphylococcus isolated • (Colony count -1 cfu)	No organism isolated

  
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