**Table I: Mean CFU on 90mm plates and CFU/m3 for settle plate-sampler in empty and in-use operating rooms of National Hospital, Sri Lanka**

|  |  |
| --- | --- |
|  | **Mean CFU/ CFU per m3** |
| **Method** | **CV** | **LAF** |
|  |  | No. of CFU on 90mm plate- Sampler | 68.44 | 2.50 |
|   |  **Empty OR** | No. of CFU on 90mm plate- Settle plate | 2.65 | 0.83 |
|   |   | Probable no. of CFU/m3 of air- Sampler | 79.00 | 4.38 |
|   |   | Probable no. of CFU/m3 of air- Settle plate | 141.82 | 43.00 |
|   |  | No. of CFU on 90mm plate- Sampler | 123.56 |  16.06 |
|   | **In-use OR** | No. of CFU on 90mm plate- Settle plate | 5.09 |  1.43 |
|   |   | Probable no. of CFU/m3 of air- Sampler | 157.94 |  19.19 |
|   |   | Probable no. of CFU/m3 of air- Settle plate | 265.09 |  76.21 |

**Table II: Differences in air contamination in two ORs while empty and in-use as measured by the two methods simultaneously**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sampling method** | **Operating room** | **Mean No. of CFU/plate** | **Std. deviation** | **Std. Error Mean** |  |
| **Settle plate** | CV (empty)LAF (empty) | 2.650 0.825  | 2.72710.5651  | 0.68180.1413 | t=2.621 df =30 **p = 0.014** |
| CV (in-use)LAF (in-use) | 5.088 1.425  | 3.8623 0.7335 | 0.96560.1834 | t= 3.726df = 30**p = 0.001** |
| **Commercial Sampler** | CV (empty)LAF (empty) | 68.442.50 | 25.2661.549  | 6.317.387 | t=10.41 df = 30 **p = <0.001** |
| CV (in-use)LAF (in-use) | 123.5616.06 | 42.593 22.338  | 10.6485.585 | t= 8.941df = 30 **p = <0.001** |

**Table III: Comparison of air contamination in the two ORs while empty and in-use as measured by commercial sampler**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Operating room** | **Mean CFU/plate** | **Std. Error of Mean** | **Std. Deviation** | **Paired samples test (paired t test)** |
| CV (empty)CV (in-use) | 68.44123.56  | 6.32 10.65  | 25.2742.59 | T= -5.284 Df=15 Sig. (2 tailed) = 0.000 |
| LAF (empty)LAF (in-use) | 2.5016.06  | .395.58  | 1.5522.34 | T= -2.452 Df=15 Sig. (2 tailed) =0.027 |