

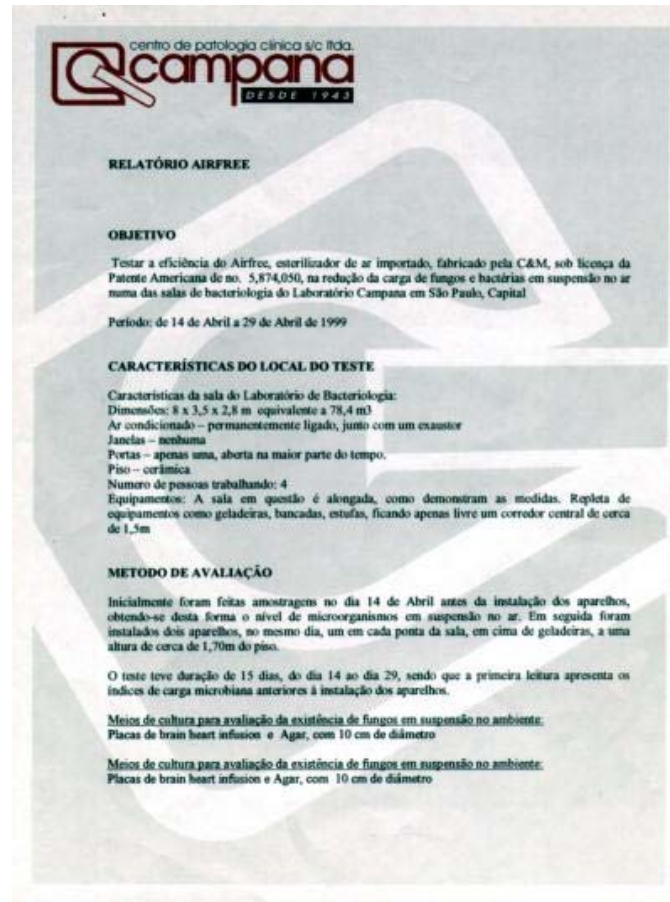


Test at Campana Laboratory

Fungi and Bacteria Testing

Airfree efficiency in reducing indoor pollution

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Test at Laboratorio Campana in Sao Paulo, Brasil - July, 1999

Objective

Test Airfree (U.S. Patent 5,874,050) efficiency in airborne fungi and bacteria reduction at one of Laboratorio Campana Bacteriology Room

Room Characteristics

Dimensions: 8 x 3,5 x 2,8 m equivalent to 78.4 m³

Air conditioned, no windows, 1 air exhauster, 1 door continuously open, ceramic floor.

4 Employees

Equipment is distributed close to all walls leaving one corridor at the middle.

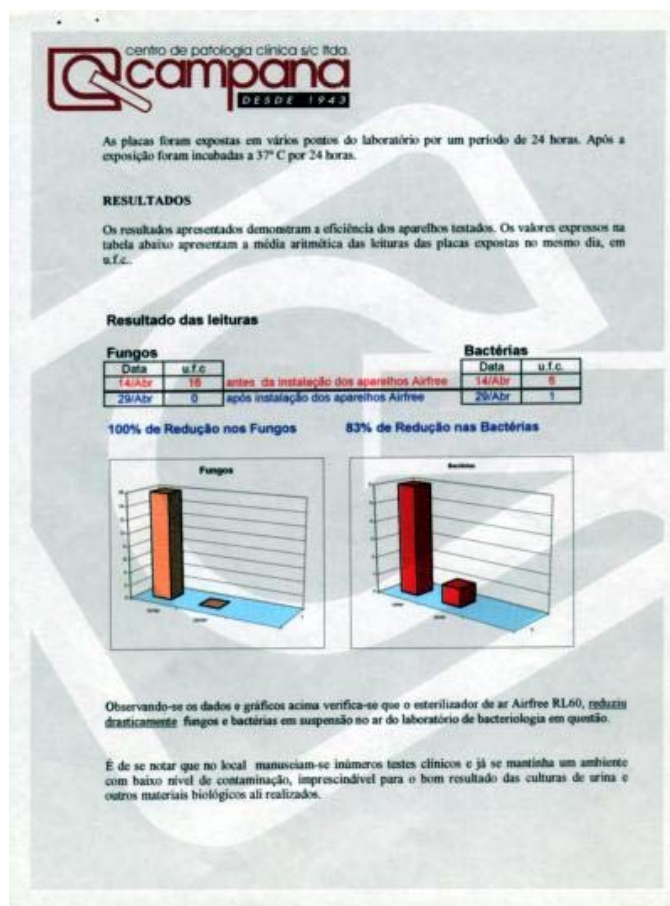
Method

On April 14th, 1999 several samples were collected prior to Airfree installation in the room, providing first set of readings. In that same day, after first readings, 2 Airfree units were plugged in over refrigerators at around 1.70m height from the floor.

For 15 days Airfree units were on. Second readings were obtained on April 29th, 1999.

Agar & Brain Heart Infusion plaques were used during the test both for fungi and bacteria development. Plaques exposed for 24 hours in several points in the room and further incubated for a period of 24 hours.

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Results

| | Fungi In u.f.c. | Bacteria In u.f.c. |
|-------------------------------|---------------------------|------------------------------|
| Prior to Airfree | | |
| April 14, 1999 | 16 | 6 |
| After installation of Airfree | | |
| April 29, 1999 | 0 | 1 |

Reduction 100% for Fungi 83% for Bacteria

Above data and charts confirm drastic reduction in airborne fungi and bacteria. Countless clinical tests are handled in tested room where low contamination level is a must for reliable culture of biologic material.



In tested room in addition to the steady 4 technicians there is a floating population contributing to continuous contamination from other areas in the Laboratory, aggravated by the air condition. Regardless of those circumstances there was a drastic microorganism reduction.

The advantages of airborne microorganisms reduction for a clinical test laboratory are:

Ambiance contamination reduction resulting in advantages for the preparation of sterilized plaques for urinculture and coproculture and a higher incidence of usable sterilized plaques in the manufacturing process.

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