Novaerus wins prestigious Smart Solutions for HAI's award from the NHS in 2010. This trial was conducted in the Royal Free Hospital in London, by the UK Government Department of Health.

- Royal Free Hospital in London has 900 beds and treats 700,000 patients per year
- 16 week clinical trial - 8,500 air and surface samples - 21 locations around the hospital

Key Results:
- 97% reduction in MRSA
- 75% reduction in surface bacteria counts

Fresenius Dialysis Trial, Portugal

Novaerus units installed in Fresenius 30 station dialysis centre over 6 weeks period.

Results:
- 87% reduction in airborne bacteria
- 93% reduction in VOCs
- Up to 67% reduction in moulds

These changes were achieved within 2 days after the start of the trial and subsequently maintained.

Rigshospitalet, Copenhagen, Denmark

A nine month study carried out at Rigshospitalet, a highly specialized hospital with 1100 beds. Testing by the Laboratory of Infection Hygiene and the Department of Clinical Microbiology.

Results:
- Significant reduction in bacterial loads on high surfaces and windows sills.
- In control section with no units, the number of infections of all kinds increased by 35% from 2013 to 2014.
  - The number of overall infections fell 23% in the section with Novaerus units.
  - 58% point swing.

Manchester Manor, Florida, USA

The study analysed the impact of Novaerus technology on the rates of Clostridiurn Difficile and respiratory infections in the 120 bed skilled nursing facility over an 11 month period.

Results:
- C. Diff Infections Down 50%
- Respiratory Infections Down 42.86%

Visit avantehs.com/air for more info
(800) 979-1694 • cleanair@avantehs.com
Novaerus is the first plasma system for airborne infection control. It uses a low energy patented plasma that is stable, reproducible, containable, and highly destructive to the microorganisms entering its field.

The plasma requires no maintenance and works 24 hours a day to eradicate airborne viruses, bacteria, mould, allergens and odours, essentially cleaning the air and creating a healthier environment.

The patented plasma technology is effective against even the most harmful bacteria and pathogens including MRSA, CDiff, Norovirus and Influenza. By reducing the presence of these contaminants in the air, a healthcare facility can stand to significantly lower the risk of infectious outbreaks.

**About Novaerus**

Novaerus Plasma Treatment

Pathogen destruction in 2 milliseconds. Species are broken down into small, safe molecules.

**In-vitro results and field studies**

Along with the continued testing within our own laboratories the Novaerus plasma technology has been independently trialled and proven to effectively destroy airborne bacteria, viruses, pathogens, odours and VOCs at an extremely high kill rate in a matter of milliseconds. The technology has been tested by a number of third party laboratories, including the NASA Ames Research laboratory in the US and Microsearch Laboratories in the UK.

The effects of the technology have also been monitored in many healthcare facilities across Europe and the US, showing major reductions in infectious outbreaks and bacteria surface counts.

“The Novaerus Plasma technology is rapid and the inactivation occurs immediately. Concrete evidence of the effect of plasma on airborne bacteria; strong chemical and structural changes are observed.”

**Dr Ram Prasad Gandhiraman**, Research Scientist, NASA

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**BACTERIA TESTING**

- Tested array of gram positive bacteria, gram negative bacteria, gram positive spores, yeasts and mould spores
- Results: >Log 5 kill rate for all classes

**VIRAL TESTING**

- Single / Double Strand DNA & RNA
- Results: >log 5 single pass 'kill rate'
- Total annihilation over 1 hour

**University of Huddersfield, UK**

- The Novaerus system removed 95% of all contamination in the air in only 30 minutes which represents a rate of removal of >3700 CFU/m³/sec
- The levels of contamination used to challenge the system in this case are much higher than would be experienced in healthcare setting
- "Novaerus is likely to make a significant impact on airborne contamination."

**Microsearch Laboratories Ltd**