



Genano
BIOAEROSOL CONTROL

Scientifically proven
safe air solution for
hospital critical areas

Genano's Complete Bioaerosol Control Found as Optimal Solution

In two clinical studies assessing the efficacy of using Genano technology in hospital critical areas, findings showed **reduction of particle counts leading to ISO Class improvement and a direct relationship between the use of Genano and improved air quality.** Use of the technology was found to be an optimal solution for continuous air treatment.

Benefits:

- Comprehensive microbial elimination
- Reduction of HAI/SSI
- Total air cleaning also prevents surface contamination

Genano Technology

- Continuous air decontamination without pressure loss
- Safe to use 24/7
- Effective against particles, microbes and gases



Study 1:

Relative 80% reduction in particle concentration with Genano

Research done in a Western European Hospital: In a controlled study, Genano devices placed in Endoscopy rooms delivered an approximate **80% reduction in particle concentration** per cubic meter within 24 hours.

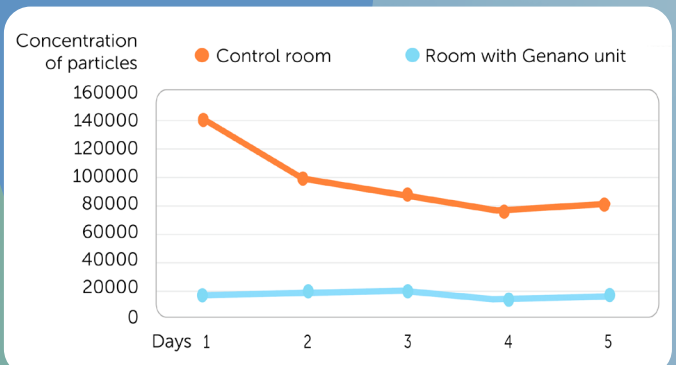
The Genano® 5250 system significantly improved air quality and emerged as an optimal solution particularly suited to high-risk areas.

Genano's continuous air treatment notably reduced particulate matter **resulting in better ISO class (from ISO7 to ISO6)** while also reducing other bioaerosol contamination by destroying the microbial loads carried by particles.

Treatment of the air with Genano maintained an ideally decontaminated environment over time.

Healthcare personnel noticed the perceptibly healthier air quality.

Recommendation from the researchers: Combine Genano air treatment system with periodic bio-decontamination, such as the 35% HPV system for optimal results.



Genano's Effectiveness: Validation through NHS Scotland's Testing

Taking an average of the four clinical areas Safewell studied, the Genano devices reduced TVC levels in air by 62%.

In addition to this, the Genano devices reduced mould levels in air by an average of 82%. This is a great result for the study, proving the success of this filtration product.

Running the device in clinical areas consistently reduced airborne microbial levels and from this, we expect there to be a reduction in the risk of airborne disease transmission e.g. COVID-19.

Devices were well accepted by clinical staff and patients.



Study 2:

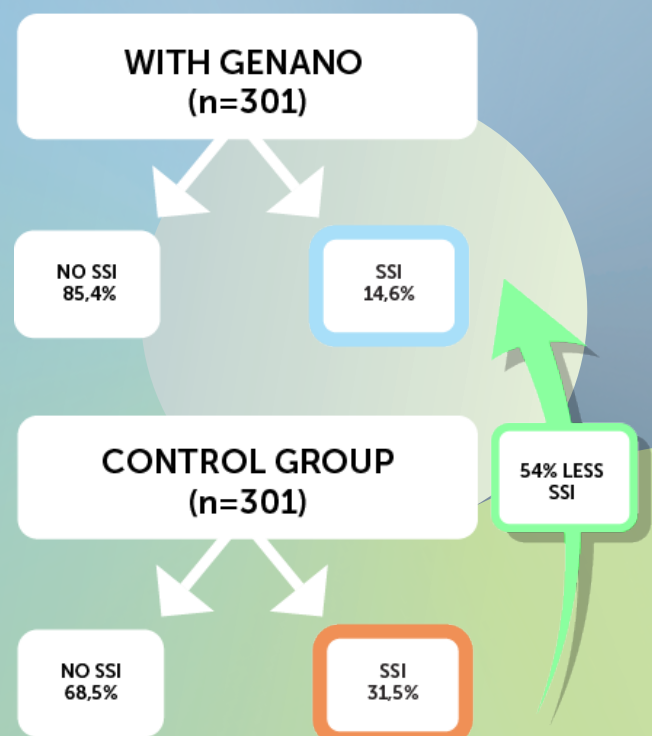
OR Infections down 54% with Genano

A scientific clinical study has demonstrated a remarkable **54% decrease in surgical site infections (SSI)** with the implementation of Genano.

The Genano system has not just improved the air quality in operating rooms according to strict ISO standards; it has proven highly effective in making the entire air environment healthier.

The Genano system reduces the risks of patient morbidity and mortality as a result of inadequate air conditions.

Beyond decreasing human suffering, this solution also presents hospitals with significant cost-saving opportunities.



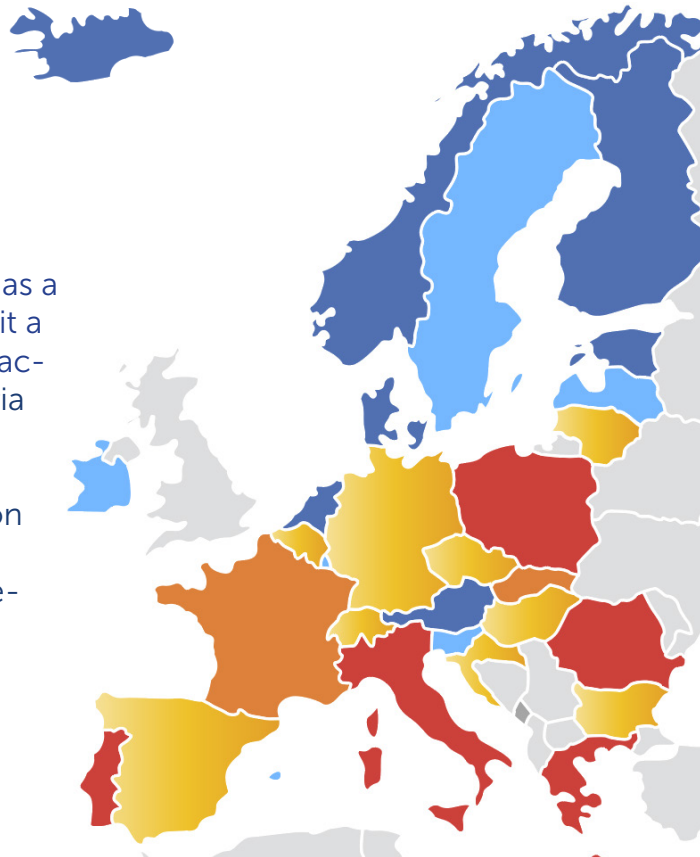
Impact of HAIs to Healthcare and Economy

Annually in Europe HAIs lead to **16 million additional hospitalization days**, amounting to a cost of **7 billion €**.

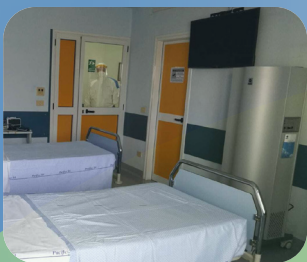
Microorganisms attach to particulate matter, known as a carrier for pathogens. Airborne particle counts exhibit a strong correlation with the presence of molds and bacteria. Infections caused by antibiotic-resistant bacteria are considered a major global health threat.

Genano provides an innovative technological solution that can combat contamination from multi-resistant bacteria, which pose a "threat to human health represented by antibiotic resistance".

71% of European infection cases in 2019 with antibiotic-resistant bacteria were HAIs.



Genano solutions used in hospital critical areas



1.

Airborne Infection Isolation Rooms



2.

Operating Rooms



3.

Intensive Care Units

Genano

genano.com info@genano.com