



PRESS RELEASE

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Contact: Public Relations Dept.

Independent test shows PHI™ kills microbes within a Healthcare facility (including MRSA on surfaces)

A research study was recently performed which utilized RGF's patented process of Photohydroionization (PHI™) in a health care facility. This independent study utilized PHI™ air units running for 12 hours a day, 7 days a week, for a test period of 30 days. The test was performed in an active county healthcare building. The areas treated consisted of a pediatric clinic and a family planning/prenatal clinic. Target organisms were mold found in the air, as well as MRSA, *Staphylococcus aureus*, and *Pseudomonas* found on non-critical contact surfaces. The following is a brief over view of the test set up, the collected results and their possible implications.

The research questions addressed whether an applied PHI™ intervention reduced mold in the air and *Staphylococcus aureus*, Methicillin-resistant *Staphylococcus aureus* (MRSA), and *Pseudomonas* species on contact surfaces. The study used an experimental design, with samples collected on Day 0 for the control and Days 5, 10, 20, and 30 of the intervention. Validated cultural media was used to measure microbiological levels in the building. Results of multiple regression models showed a statistically significant relationship ($p < .05$) between the PHI™ treatment and the reduction of mold, *Staphylococcus aureus*, and *Pseudomonas* species.

The PHI™ treatment resulted in greater than 90% reductions in mold, MRSA, and *Staphylococcus aureus* in the measured areas. Implications for positive social change include providing data on best practices for building engineers, infection control, and occupational health professionals to help them make health care facilities safer for susceptible populations, thus reducing the spread of infectious diseases and lowering health care costs overall.

Once again the PHI™ technology is proving itself to be an effective microbial control method, both in controlled lab studies, as well as real world applications. This research study was performed by Larry Franken PhD, MSPH (Epidemiologist, Emergency Preparedness and Public Health Education Unified Government of Kansas City, KS) with cooperation from the Wyandotte County Health Department. Kansas City, Kansas. This study was done independently. RGF Environmental Group, Inc. offered no financial incentive, had no input or knowledge of the proposed testing design, data collection, data analysis, data interpretation or writing of this research study. The complete 171-page study can be obtained online at lfranken@wycokck.org.

This study further substantiates many other independent tests on PHI™'s ability to inactivate mold, bacteria and viruses. For more information on this and other studies, please contact us via email at requests@rgf.com, or call Heather Polzer at 561-848-1826 ext. 119.

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