

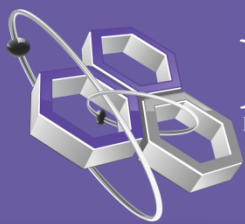
## Quotes approving the use of Hydrogen Peroxide

**“The use of hydrogen peroxide vapor decontamination has gained considerable interest in defense (and other industries) as a wide ranging decontaminant for use in multiple scenarios and against multiple biological and chemical contaminants. The technology has already been used successfully in real building remediation scenarios following the 2001 anthrax attacks in the United States.”** - E.I. Rainina, M. Luna, and P. Godoy-Kain, Pacific Northwest National Laboratory operated by Battelle for the U.S. Department of Energy.  
[http://www.pnnl.gov/main/publications/external/technical\\_reports/PNNL-21421.pdf](http://www.pnnl.gov/main/publications/external/technical_reports/PNNL-21421.pdf)

**“Hydrogen peroxide is a very powerful oxidizing agent and is capable of oxidizing a wide range of organic and inorganic compounds.”** - Jay Krishnan and Greg Fey, Canadian Science Centre for Human and Animal Health.  
<http://www.biosecurity.sandia.gov/ibtr/subpages/pastConf/20082009/highcontainment/space.pdf>

**“Hydrogen peroxide vapor, as spread around patients' rooms by [robotic] devices, represents a major technological advance in preventing the spread of dangerous bacteria inside hospitals** and, especially, from one patient occupant to the next, even though sick patients were never in the same room at the same time.” - Trish Perl, M.D., M.Sc., Senior Epidemiologist, Johns Hopkins Health System  
<http://www.hopkinsmedicine.org/profiles/results/directory/profile/0008777/Patricia-M-Perl-MD>

**“Our study results show that supplies in the rooms of patients in Isolation precautions can become contaminated with multidrug-resistant organisms, which may present a risk to other patients if they are not discarded or disinfected when the patient is discharged. Hydrogen peroxide vapor looks to be a cost-effective and environmentally-friendly means to manage potentially contaminated packaged supplies.”** - Trish Perl, M.D., M.Sc., Senior Epidemiologist, Johns Hopkins Health System.  
<http://www.shea-online.org/View/ArticleId/202/Decontamination-of-Unused-Medical-Supplies-Reduces-Healthcare-Costs.aspx>  
Note: same person as above



**PATHOGEND**  
ENDING THE PATH TO INFECTION

Pathogend of Georgia  
[www.pathogendGA.com](http://www.pathogendGA.com)  
(678) 575-2889

## Quotes approving the use of Hydrogen Peroxide

**“Due to its rapid degradation into innocuous by-products, decontamination with hydrogen peroxide vapor (HPV) is a technique that has been widely used for disinfection of the pharmaceutical environment, including clean rooms** and production filling lines and is beginning to be used in the food industry. The application of HPV is said to have excellent material compatibility and is safe for use on a wide range of metals, including stainless steel and aluminium, plastics such as polypropylene and polycarbonate, and other materials, such as electronic circuitry.” - Huub Lelieveld, John Holah, and David Napper, editors of *Hygiene in food processing: principles and practice*. Elsevier, 2014. [https://books.google.com/books?id=Qf-iAgAAQBAJ&pg=PA284&lpg=PA284&dq=\(%22hydrogen+peroxide%22+or+H2O2\)+and+\(fog\\*+or+vapor\\*\)+uv&source=bl&ots=LghrZFpANw&sig=G8imWbWbs56nylKZm13QRLgO6ZQ&hl=en&a=X&ved=oahUKEwiIk8yg4PrJAhWEPB4KHa6FAS44ChDoAQgnMAI#v=onepage&q=\(%22hydrogen%20peroxide%22%20or%20H2O2\)%20and%20\(fog\\*%20or%20vapor\\*\)%20ouv&f=false](https://books.google.com/books?id=Qf-iAgAAQBAJ&pg=PA284&lpg=PA284&dq=(%22hydrogen+peroxide%22+or+H2O2)+and+(fog*+or+vapor*)+uv&source=bl&ots=LghrZFpANw&sig=G8imWbWbs56nylKZm13QRLgO6ZQ&hl=en&a=X&ved=oahUKEwiIk8yg4PrJAhWEPB4KHa6FAS44ChDoAQgnMAI#v=onepage&q=(%22hydrogen%20peroxide%22%20or%20H2O2)%20and%20(fog*%20or%20vapor*)%20ouv&f=false)

**“This relatively quick and user-friendly technology might be a more reliable method of terminally disinfecting isolation rooms**, following detergent cleaning, compared to the manual application of other disinfectants.” -

S. Shapey, K. Machin, K. Levi, and T.C. Boswell, Department of Clinical Microbiology, Nottingham University Hospital NHS Trust, Queen's Medical Centre, Nottingham, UK.

<http://www.ncbi.nlm.nih.gov/pubmed/18694613>

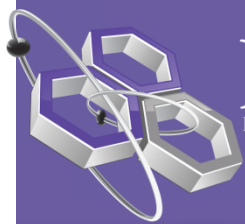
**“Our study demonstrates a significant reduction in the percentage of [multidrug-resistant organism] contaminated [ICU] rooms using H<sub>2</sub>O<sub>2</sub> techniques.** - Caroline Blazejewski,

Frédéric Wallet, Anahita Rouzé, Rémi Le Guern, Sylvie Ponthieux, Julia Salleron, and Saad Nseir, University Hospital of Lille, France.

<http://www.ccforum.com/content/19/1/30>

**“Both HPV and UVC reduce bacterial contamination, including spores, in patient rooms, but HPV is significantly more effective.** UVC is significantly less effective for sites that are out of direct line of sight.” - Nancy L. Havill, Brent A. Moore, and John Boyce, Hospital of Saint Raphael, New Haven, Connecticut.

<http://www.ncbi.nlm.nih.gov/pubmed/22476278>



**PATHOGEND**  
ENDING THE PATH TO INFECTION

Pathogend of Georgia  
[www.pathogendGA.com](http://www.pathogendGA.com)  
(678) 575-2889

## Quotes approved the use of Hydrogen Peroxide

“HPV is now regularly deployed to stop outbreaks and prevent infections in some of America’s busiest hospitals. **Many hospitals have benefited from the major savings available from the application of HPV due to reduced infection rates.**” - Mark Hodgson. Infection control today. “The Role of Hydrogen Peroxide Vapor Systems in Infection Control” <http://www.infectioncontrolday.com/>

Hydrogen peroxide vapour is effective against FCV and is active on a range of surfaces. Therefore, it may represent a **suitable decontamination system for use following a hospital outbreak of norovirus.**” - Bentley K., Dove B.K., Parks S.R., Walker J.T., Bennett A.M., Microbiology Services Division, Health Protection Agency, Porton Down, Salisbury, UK.

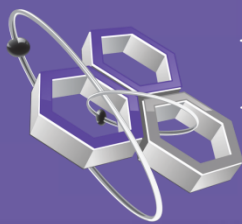
<http://www.ncbi.nlm.nih.gov/pubmed/22169115>

“In situ experiments indicate that the **hydrogen peroxide dry-mist disinfection system is significantly more effective than 0.5% sodium hypochlorite solution** at eradicating C. difficile spores and might represent a new alternative for disinfecting the rooms of patients with C. difficile infection.” - Frédéric Barbut, D Menuet, M Verachten, and E. Girou, National Reference Laboratory for Clostridium difficile, Hôpital Saint-Antoine, Assistance Publique-Hôpitaux de Paris.

<http://www.ncbi.nlm.nih.gov/pubmed/19379098>

“**Hydrogen peroxide fogging was highly effective for disinfection of room air, furniture and other articles.** It decontaminated the air-conditioning ducts effectively, was rapid and cheaper than formalin, and no adverse effects were noted. There was minimum disturbance to the patients and the treated areas were ready to be populated again after 5-6h. **Hydrogen peroxide has the advantage of being safer, less irritating, and has shorter cycle times compared** with formalin fumigation...” - N. Tanja, Postgraduate Institute of Medical Education and Research emergency complex, Chandigarh, India.

<http://www.ncbi.nlm.nih.gov/pubmed/21507520>



**PATHOGEND**  
ENDING THE PATH TO INFECTION

Pathogend of Georgia  
[www.pathogendGA.com](http://www.pathogendGA.com)  
(678) 575-2889