

## STUDIES SHOW RAPID, CHEMICAL-FREE SURFACE DISINFECTION WITH TANCS® STEAM VAPOR

Controlled laboratory and peer-reviewed studies show that portable steam vapor systems from Advanced Vapor Technologies, located in Everett, WA, are capable of rapid, chemical-free cleaning and surface disinfection without the liabilities, downtime and hazards of conventional methods.

A peer-reviewed study, "Reduction in the microbial load on high-touch surfaces in hospital rooms by treatment with a portable saturated steam vapor disinfection system," conducted by Sheri L. Maxwell, BS; Charles P. Gerba, PhD; Jonathan D. Sexton, MS and Benjamin D. Tanner, PhD,

concluded that TANCS®-equipped steam vapor units "reduced bacterial levels by greater than 90 percent and reduced pathogen levels on most surfaces to below the detection limit" within only a few seconds of treatment.

The study was carried out in eight occupied rooms of a long-term care wing of a hospital. Six surfaces per room were swabbed before and after steam treatment and analyzed for heterotrophic plate count (HPC), total coliforms, methicillin intermediate and -resistant *Staphylococcus aureus* (MISA and MRSA), and *Clostridium difficile*.

Researchers reported the system "provides a means to reduce levels of microorganisms on hospital surfaces without the drawbacks associated with chemicals, and may decrease the risk of cross-contamination."

Also, independent tests by Antimicrobial Test Laboratories (ATL) demonstrated rapid destruction of the NDM-I strain of *Klebsiella pneumoniae* bacteria using Advanced Vapor Technologies' TANCS®-equipped steam vapor units.

"The studies we conducted show the steam vapor device can eradicate NDM-I *Klebsiella* on a hard surface within just two seconds of contact - much faster than traditional disinfectants," said Tanner, president of ATL. "These findings are exciting because 'shorting' contact times for liquid disinfectants is a major problem in hospitals, and is undoubtedly responsible for environmental surface conditions leading to many infections."

The MondoVap 2400 with TANCS uses tap water and a proprietary water-treatment module to generate steam for cleaning and killing pathogens without leaving chemical residue. With the TANCS option, the AVT steam vapor system qualifies as a disinfection device under U.S. Environmental Protection Agency (EPA) rules. ■

### CLEAN AND DISINFECT

in one process using Tap Water!



ADVANCED  
**VAPOR**  
TECHNOLOGIES, LLC

with our *PATENTED*  
Steam Vapor System  
equipped w/ TANCS®

**MULTI-PURPOSE  
MULTI-SURFACE**

#### **DESTROYS**

Bacteria  
Viruses  
MRSA  
VRE  
*C.difficile* spore

#### **THINK**

Portable  
Quiet  
Easy

**100%  
Environmentally  
Safe**

**Chemical-Free  
Sanitation®**

**FREE DEMO**  
[www.advap.com](http://www.advap.com)  
**800.997.6584**