The Aquaox Advantage

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Background

There is an epidemic of health care acquired infections within hospitals, out-patient surgical centers, nursing homes and other medical facilities in over 40 intercontinental states of the United States, namely Carbapenem-Resistant Enterobacteriaceae (or CRE). A major cause of this epidemic is environmental surface contamination. It is estimated that 40% of healthcare acquired infections are attributed to cross contamination from hands of patients, healthcare workers and visitors onto environmental surfaces.

Superbugs

Highly resistant pathogens can live on surfaces for days if not months. For example, the vegetative cells of Clostridium difficile can survive 24 hours and its spores can survive 5 months. Acinetobacter baumannii can survive up to 9 days on a patient's bed railing.

Environmental Services Staff Dilemma

The burden of eliminating surface contamination falls on the Environmental Services Staff. They have an extremely important role in eliminating healthcare acquired infections. However, Environmental Services often do not have the tools to successfully minimize surface contamination and healthcare acquired infections.

Time is Money

Environmental Services are limited by patient sensitivity to harsh or toxic chemicals. However, the biggest obstacle for Environmental Services is TIME. The average time for an Environmental Service technician to do a patient terminal cleaning in a US hospital is 27 minutes. This is an almost impossible task considering the amount of work and limited tools.

Aquaox Advantage

Three Anti-Microbial Solutions in One

Aquaox Electrolyzed Oxidizing Water generator generates onsite three anti-microbial solutions by electrolyzing a dilute brine solution.

Aquaox Infection Control Systems (AICS)

Next to three Anti-Microbial Solutions, Aquaox offers smart applicators to more efficiently dispense and effectively apply the solutions. Aquaox Infection Control Systems enable the Environmental Services Staff to improve cleanliness, reduce labor and prevent human errors while ensuring that rooms are terminal cleaned within 27 minutes. Aquaox Infection Control Systems include easy-to-use automated electrostatic spraying- and misting devices to safely disinfect air and surfaces.

1

One of the solutions is used to dissolve protein, emulsify oils and fats making it an effective general purpose cleaner.

The cleaning solution contains minimal 160 ppm Sodium hydroxide (NAOH); it has a pH of 10 to 13 and an Oxidation-Reduction Potential of -800 to -1000mV.

The cleaning solution has a yellow color to distinguish it from the sanitizing solution and disinfectant solution.

2

Another solution is used as a non-corrosive, fast active general purpose sanitizer.

The sanitizing solution has a pH of about 6 to 7 and an Oxidation-Reduction Potential of +800 to +1000mV. It contains minimal 250ppm Free Available Chlorine.

3

A third solution is used as a high level disinfectant, capable of killing all microorganism, including MRSA (Methicillin Resistant Staphylococcus aureaus), C. diff (Clostridium difficile), VRE (Vancomycin resistant enterococci) BCG (Mycobacterium bovis) and Acinetobacter baumannii.

The disinfectant has a pH of about 6 to 7 and an Oxidation-Reduction Potential of +800 to +1000mV. It contains minimal 470ppm Free Available Chlorine.

All anti-microbial solutions are freshly generated and dispensed on demand from color marked faucets.

CLEANER:

Streakless cleaning agent with yellow color.

- No surfactants or suds added
- Equivalent efficacy to a 2% NAOH-solution, although only 160 ppm strength
- Odorless
- Effective against gram negative bacteria

SANITIZER:

General surface sanitizer with natural fragrance.

- Log 4 reduction in less than 15 seconds.
- Effective against e.g. Enterobacter aerogenes, Escherichia Coli, Klebsiella, pneumoniae, Micrococcus luteus, Proteus mirabilis, Pseudomonas aeruginosa, Serratia marcescens, Salmonella enterica, Staphylococcus aureus

DISINFECTANT:

High-level disinfectant

- Log 6 reduction in less than 15 seconds.
- Effective against MRSA (Methicillin Resistant Staphylococcus Aureaus), C. diff (Clostridium difficile), VRE (Vancomycin resistant enterococci), BCG (Mycobacterium bovis) and Acinetobacter baumannii.
- Not only a bactericide, but also a fungicide, sporicide and virucide.
- Kills CRE's on contact
- Cold, fast-acting, residue free non-toxic disinfectant.
- Micro-organism cannot develop resistancy against HOCL (Hypochlorous acid), unlike the case with chemicals (e.g. occurence of super bugs).