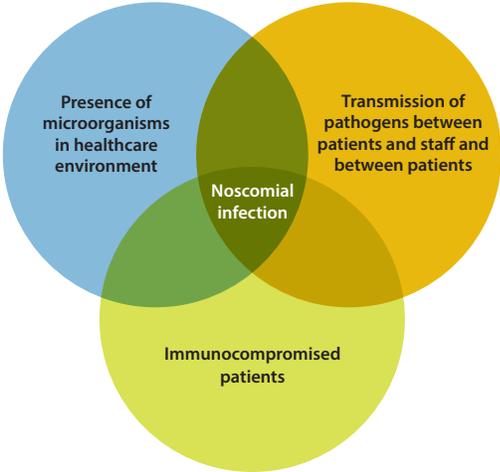# New solutions to reduce health care-acquired infections.

Powerful efficacy with low toxicity. Pure chlorine dioxide from MTC.

Health care and infection control professionals constantly battle against health care-acquired infections. One of the best ways to combat these infections is to prevent them.

Health care settings are environments where both infected persons and persons at increased risk of infection congregate. Patients with infections or carriers of pathogenic microorganisms admitted to hospitals are potential sources of infection for patients and staff. Patients who become infected in hospitals are further sources of infection.

Presence of microorganisms in healthcare environment

Transmission of pathogens between patients and staff and between patients

Noscomial infection

Immunocompromised patients

Crowded conditions within the hospital, frequent transfers of patients from one unit to another, and concentration of patients highly susceptible to infection in one area (e.g., newborn infants, burn patients, intensive care) all contribute to the development of nosocomial infections. Microbial flora may contaminate objects, devices and materials which subsequently contact susceptible body sites of patients. In addition, new infections associated with bacteria such as waterborne bacteria (atypical mycobacteria) and/or viruses and parasites continue to be identified.

Prevention is the key, and MTC products are exceptional at eliminating these microbial threats. MTC products act as powerful oxidizers on contact. Because MTC products kill through oxidation, microbial threats have no ability to become resistant.

Simply spray MTC products on surfaces such as floors, tables, bedrails, handles and any other surface that you want to disinfect. Simply spray and walk away. Save time, save labor and reduce HAIs with pure chlorine dioxide from MTC.

Use pure chlorine dioxide from MTC to kill MRSA, staph, influenza, pneumonia and more in your health care setting. Get all the power of an oxidizer without the corrosive or toxic levels. Know that you are providing the cleanest possible environment without damaging materials or irritating patients and staff.

Microreactor Technology — How it Works

Just add water

Chlorine Dioxide

Because only a controlled amount of water vapor crosses the membrane, the reactants remain concentrated, driving the reaction to completion.

Reaction

Membrane Based Microreactor

Spent reactants are retained in the microreactor; greater than 99% pure chlorine dioxide exists in working aqueous solution.

Water Vapor

The microreactor separates the solid reactants from the water using a reaction-controlling membrane.