

**SPORE NO MORE!**

**REScue**<sup>™</sup>

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Environmental Surface  
Sporicide



*Target C.difficile with confidence!*

# The RESCUE™ Story

Three years ago, Virox embarked on a mission to develop an Accelerated Hydrogen Peroxide (AHP) formulation effective against *C. difficile* spores. Virox was able to successfully develop the first Health Canada DIN registered 4.5% AHP product that was effective against *C. difficile* spores in a reasonable contact time. A role traditionally performed by chlorine bleach and chlorine compounds, RESCUE™ presents an alternative that is not only effective against spores, it also maintains AHP's known health and safety profile, superior cleaning efficacy and broad spectrum germicidal performance.

The first product launched from the RESCUE™ Platform was the RESCUE™ Sporicidal Gel. It was based on well published opinions that bathroom surfaces (specifically the toilet bowls, sinks, commodes and basins) posed the highest risk for environmental transmission. The gel format was developed specifically to adhere to the vertical surfaces of toilet bowls, sinks, commodes and basins to ensure the full contact time is achieved. Once the DIN registration was received, Virox began working on completion of the *C. difficile* Intervention Program and submitted to Health Canada a liquid and wipes version of the Rescue formulation. In May of 2008 Virox received registration for Rescue Sporicidal Wipes and in November received the DIN for Rescue Sporicidal Liquid. This completed the Rescue Platform.



## *C. difficile* Outbreak & Discharge **INTERvention™**

### Products

**RESCUE** 4.5% Accelerated Hydrogen Peroxide (AHP) Sporidical Gel for the interior surfaces of the toilet bowl, sink and commode.

**RESCUE** 4.5% AHP Sporidical Liquid or Wipes for the cleaning and disinfection of hard, non-porous, hand contact surfaces in the patient room and bathroom.

Any Branded 0.5% **ACCELERATED HYDROGEN PEROXIDE** (AHP) Wipes for patient care equipment in the patient room.

### Protocol Summary

- ▶ Apply the **RESCUE 4.5% AHP Sporidical Gel** to the inside of the toilet bowl, sink and commode ensuring the surfaces are adequately covered using a clean cloth or brush. Allow to dwell while the remainder of the patient room and bathroom are cleaned and disinfected.
- ▶ Clean and disinfect all horizontal hard, non-porous surfaces in the patient room by applying the **RESCUE 4.5% AHP Sporidical Liquid** directly to the cloth or surface or by using the **RESCUE 4.5% AHP Sporidical Wipes**.
- ▶ Clean and disinfect all **patient care equipment** in the patient room by using any branded 0.5% AHP surface product directly to the cloth or surface or by applying any branded 0.5% AHP Pre-Saturated Wipes to the surface.
- ▶ Clean and disinfect all surfaces in the patient bathroom by applying the **RESCUE 4.5% AHP Sporidical Liquid** directly to the cloth or surface or by using the **RESCUE 4.5% AHP Sporidical Wipes**.
- ▶ After the patient room and bathroom have been successfully cleaned and disinfected, rinse sink and/or commode and flush toilet to ensure all **RESCUE Sporidical Gel** residue has been removed.

The *C. difficile* Intervention Program Protocols were created in accordance with the Provincial Infectious Disease Advisory Committee's (PIDAC) "Best Practices Document for the Management of *C. difficile* in all Health Care Settings" and the CDC's "Guideline for Disinfection and Sterilization in Healthcare Facilities, 2008".



## *C. difficile* Isolation Room **INTERvention™**

### Products

**RESCUE** 4.5% Accelerated Hydrogen Peroxide (AHP) Sporidical Gel for the interior surfaces of the toilet bowl, sink and commode.

Any branded 0.5% **ACCELERATED HYDROGEN PEROXIDE** (AHP) surface product for all environmental surfaces and patient care equipment in the patient room and bathroom.

### Protocol Summary

- ▶ Apply the **RESCUE 4.5% AHP Sporidical Gel** to the inside of the toilet bowl, sink and commode ensuring the surfaces are adequately covered using a clean cloth or brush. Allow to dwell while the remainder of the patient room and bathroom are cleaned and disinfected.
- ▶ Clean and disinfect all horizontal surfaces in the patient room by applying any branded 0.5% AHP surface product directly to the cloth or surface or by applying any branded 0.5% AHP Pre-Saturated Wipes to the surface.
- ▶ Clean and disinfect all surfaces in the patient bathroom, working cleanest to dirtiest, by applying any branded 0.5% AHP surface product directly to the cloth or surface or by applying any branded 0.5% AHP Pre-Saturated Wipes to the surface.
- ▶ After the patient room and bathroom have been successfully cleaned and disinfected, rinse sink and/or commode and flush toilet to ensure all **RESCUE Sporidical Gel** has been removed.

Both documents recommend the use of a hospital grade disinfectant to clean and disinfect the patient room twice daily in Isolation Rooms as *the physical removal of the spores is critical to break the chain of infection*. However, in the event of an environmental transmission outbreak, it is recommended to use a product effective against *C. difficile* spores to perform the double clean.

*C. difficile* was recovered from 50% of 'dirty' sites such as toilets or commodes and 83% of rooms with CDAD

Dubberke et al, AJIC 2007; 34:315-318

29-30% of environmental swabs from 'frequent-contact' environmental sites including commodes and toilets test positive for *C. difficile*

Fawley et al J. Clin. Microbiol. 43:2685-2696

Contaminated commodes, telephones, and rectal thermometers have been implicated as potential sources of *C. difficile* in outbreaks

Simor et al, ICHE 2002;23:696-703



**Desired Traits**

**Chlorine Bleach**



<i>Must be sporicidal</i>	<i>Able to kill spores</i>	<i>Able to kill spores</i>
<i>Must have good cleaning ability to remove organic soil load on surface.</i>	<i>Does not contain detergency properties for cleaning efficacy</i>	<i>AHP contains a combination of superior surfactants that are proven effective cleaners in synergy with Hydrogen Peroxide</i>
<i>Is effective in a soil load</i>	<i>Neutralized by soil</i>	<i>Efficacy testing is done with a soil load</i>
<i>Realistic shelf life and stability</i>	<i>Bleach readily degrades once opened. Diluted product must be made fresh daily, can be unreliable</i>	<i>Stable for 1 year</i>
<i>Will not lead to development of resistant organisms</i>	<i>Active ingredient evaporates</i>	<i>Active ingredient Hydrogen Peroxide evaporates from surface</i>
<i>Must be able to stay wet on surfaces to achieve disinfection</i>	<i>Acts like water. Does not spread well to achieve wet contact times. May bead up creating dry clusters</i>	<i>Surfactants are used to allow consistent and equal surface wetting</i>
<i>Minimal toxicity</i>	<i>Highly reactive. Can create toxic/carcinogenic by-products and/or noxious fumes contributing to indoor air quality issues</i>	<i>Does not contain APEs/NPEs; is not carcinogenic. Contains ingredients listed on the EPA inerts list and FDA G.R.A.S. listing</i>

	<b>Product Description</b>	<b>Product Code</b>	<b>Shelf Life</b>	<b>Dilution</b>	<b>DIN</b>
<i>Rescue Sporicidal Gel</i>	4.5% AHP 1 Litre	ACCRESG-1	12 months	Ready-to-Use	02297345
<i>Rescue Sporicidal Liquid</i>	4.5% AHP 1 Litre	ACCRESL-1	12 months	Ready-to-Use	02319160
<i>Rescue Sporicidal Wipes</i>	4.5% AHP 8"x9" Wipes	ACCRESW-1	12 months	Ready-to-Use	02309955



Engineering Revolutionary Disinfectants for the War Against Microbes

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