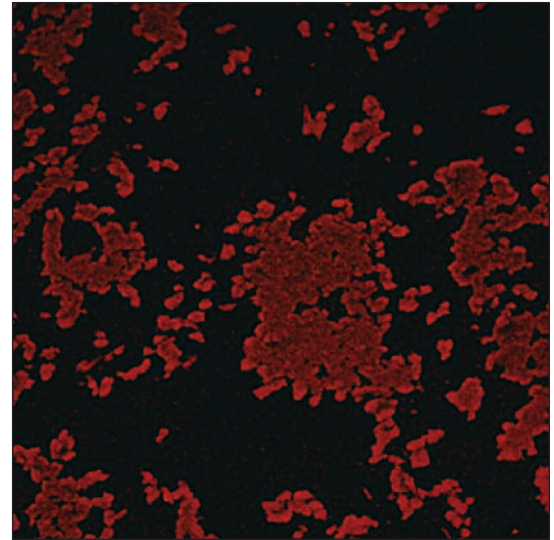
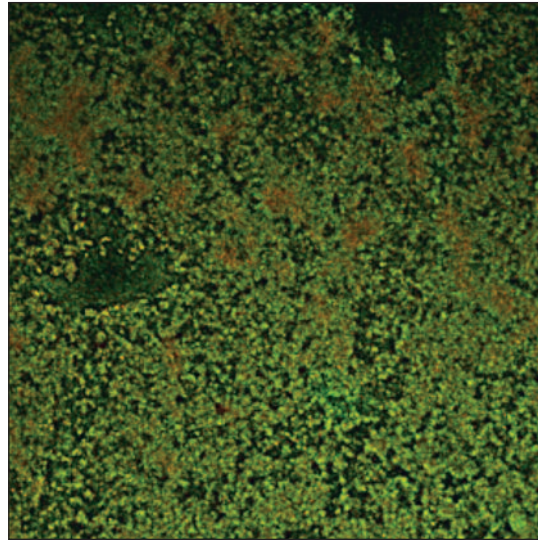
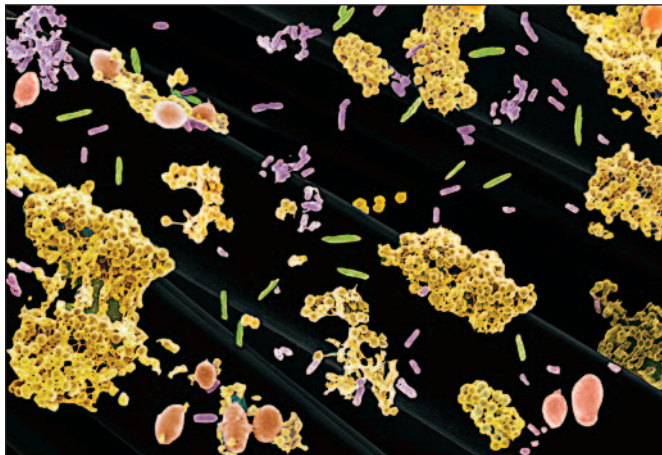


PhaseOne™ SKIN AND WOUND CLEANSER



PhaseOne is a wound cleanser that disrupts and eradicates biofilm in solution, killing bacteria and fungi then neutralizing resulting toxins. Formulated as a pure concentration of hypochlorous acid (HOCl) and made without the irritating bleach found in other products, it is gentle and non-irritating to skin and new tissue.



80-100x more potent a germicide than Dakin's solution

Rapid reduction in pathogen load

In solution, PhaseOne kills 99.99% of these dangerous pathogens in less than 60 seconds:



MRSA	<i>Candida albicans</i>
VRE	<i>Aspergillus brasiliensis</i>
<i>H. influenzae</i>	<i>Enterobacter aerogenes</i>
<i>Acinetobacter</i>	<i>Klebsiella pneumoniae</i>
<i>Pseudomonas aeruginosa</i>	<i>Proteus mirabilis</i>
<i>E. coli</i>	<i>Serratia marcescens</i>
<i>Staphylococcus aureus</i>	<i>Staphylococcus hominis</i>
<i>Bacteroides fragilis</i>	<i>Staphylococcus epidermidis</i>
<i>Clostridium perfringens</i>	<i>Staphylococcus saprophyticus</i>
<i>Staphylococcus haemolyticus</i>	<i>Corynebacterium amycolatum</i>
<i>Vibrio vulnificus</i>	<i>Streptococcus pyogenes</i>

The same agent as released by white blood cells

Hypochlorous acid (HOCl) is a natural agent produced by white blood cells (neutrophils) and released during oxidative burst to kill bacteria. PhaseOne is a pure concentration of HOCl.

Hypochlorous acid's neutral charge allows it to penetrate bacterial walls more effectively than the hypochlorite anion known as Dakin's solution, while the pH for PhaseOne maintains the HOCl neutral charge.

Bleach-free and shelf-stable

Sodium hypochlorite (bleach, also known as Dakin's solution) is known to be cytotoxic to granulating tissue. PhaseOne's innovative manufacturing process ensures that the solution doesn't contain bleach, and therefore doesn't interfere with underlying new tissue. PhaseOne also has a shelf life of 36 months from the date of manufacturing and remains effective for 30 days after the bottle is opened.

New solution for wound care

PhaseOne

- Powerful bactericidal and fungicidal activity in solution
- In-vitro studies show it's noncytotoxic
- 80-100 times more potent than Dakin's solution
- Gentle

COMPARE TO:

Povidone-iodine solution

- Irritating to healing cells

Silver-nitrate solutions

- Irritating to healing cells
- Longer average length of hospital stay
- Costly recuperation

Dakin's solution

- Markedly less effective than PhaseOne
- Cytotoxic to granulating tissue

Surfactant-based solutions

- Only cleanse wound
- Irritating to healing cells

Kills pathogens, not underlying new tissue

PhaseOne's concentration of HOCl:

- Disrupts biofilm, kills pathogens, and neutralizes toxins (in solution)
- Does not generate microbial resistance
- Has no contraindications
- Is non-sensitizing and non-irritating
- Doesn't interfere with underlying tissue
- Reduces odor associated with wounds
- Has a wide therapeutic index
- Is environmentally safe—requires no special disposal precautions

Indications

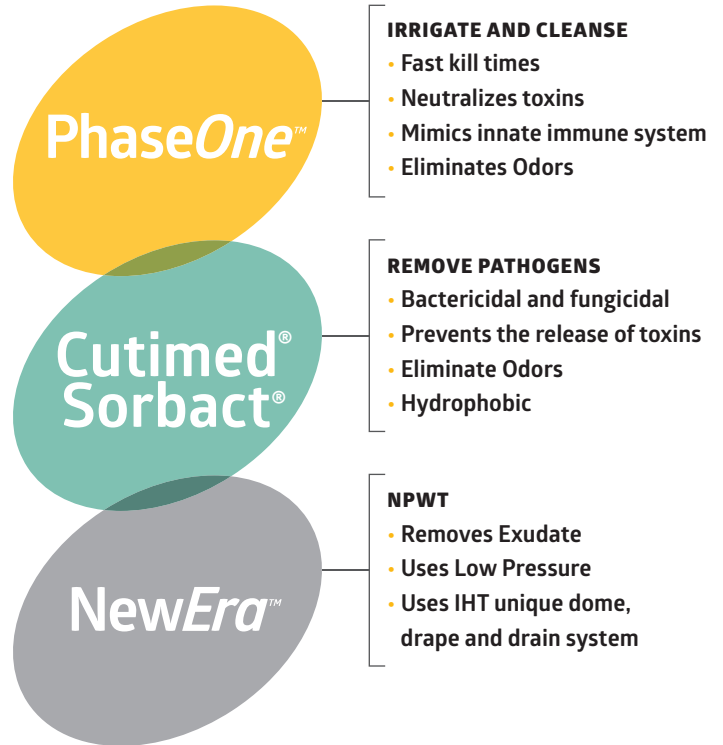
PhaseOne may be used for irrigation and debridement of:

- Stage I to IV pressure ulcers
- Stasis ulcers
- Leg ulcers
- Diabetic foot ulcers
- First-degree and second-degree burns
- Post-surgical wounds
- Grafted and donor sites
- Minor burns and superficial abrasions and wounds
- Moistening absorbent wound dressings

About Integrated Healing Technologies®

Integrated Healing Technologies offers a system of wound care products that:

- Cleanse wounds by removing debris and microorganisms
- Bind, inactivate and remove bacteria and fungi
- Apply negative pressure at the wound bed to gently suction debris and exudate.



References:

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2. Wang L, Bassiri M, Najafi R, Najafi K, Yang J, Khosrovi B, Huong W, Barati E, Belisle B, Celeri C, Robson MC. Hypochlorous Acid as a Potential Wound Care Agent Part I. Stabilized Hypochlorous Acid: A Component of the Inorganic Armamentarium of Innate Immunity. *J Burns Wounds* 2007; 6: 65-79.
3. Robson MC, Payne WG, Ko F, Mentis M, Donati G, Shafii SM, Culverhouse S, Wang L, Khosrovi B, Najafi R, Cooper DM and Bassiri M. Hypochlorous Acid as a Potential Wound Care Agent: Part II. Stabilized Hypochlorous Acid: Its Role in Decreasing Tissue Bacterial Bioburden and Overcoming the Inhibition of Infection on Wound Healing. *J Burns Wounds* 2007; 6: e6
4. A New Antiseptic Solution with Potential Applications in Wound Care. Data on File.



Integrated Healing Technologies

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