

Bacterial Burden and Cytotoxicity

Bacterial burden can seriously affect chronic wounds by prolonging the inflammatory stage as well as decreasing wound strength via collagenase production in bacteria, neutrophils, and macrophages.² In-vitro testing of the preservative in Vetericyn Plus® VF shows microbial inhibition activity for a broad range of microorganisms including staphylococcal species.

Organisms	Inoculum Concentration per mL of Test Article Showing preservative effectiveness over the shelf life of the product	Microbial Reduction (15 Seconds)
<i>K. pneumoniae</i>	1.32 x 10 ⁷	99.99999%
<i>E. faecalis</i>	4.10 x 10 ⁷	99.99999%
<i>S. aureus</i> MRSA	6.55 x 10 ⁷	99.99999%
<i>S. epidermidis</i>	5.80 x 10 ⁷	99.99999%
<i>A. baumannii</i>	8.50 x 10 ⁷	99.99999%
<i>S. aureus</i>	8.75 x 10 ⁷	99.99999%
<i>P. aeruginosa</i>	5.20 x 10 ⁷	99.99999%
<i>E. coli</i>	8.90 x 10 ⁷	99.99999%
<i>C. albicans</i>	2.30 x 10 ⁷	99.99999%

Saline, Sterile, or Tap Water

While recent studies have found no evidence that saline, sterile, or tap water are detrimental to wound healing, there is no evidence of their ability to manage dirty wound debris and fluid during the debridement routine to minimize the re-contamination of chronic wounds.¹

The use of saline, sterile, or tap water is inappropriate for wound bed preparation in the context of bioburden and biofilm.¹

Other wound cleansing agents

Some wound cleansing formulations have been shown, in vitro, to impair the functioning of the cells involved in normal wound healing.¹

Wound Irrigant	Results
Saline (0.9%, NaCl, pH 5.0)	Pass
Hypochlorous Solution (0.015%)	Pass
Sodium Hypochlorite (Dakin's)(0.25%)	Fail
Sodium Hypochlorite (Dakin's)(0.5%)	Fail
Chlorhexidine gluconate (4%)	Fail
Hydrogen peroxide (3%)	Fail
Povidone Iodine (7.5%)	Fail



MORE POWERFUL FORMULA.

Liquid Formula is now formulated with 60% more active hypochlorous technology while remaining non-cytotoxic.

Uses

- + Wound bed preparation
- + Cleansing & irrigation
- + Acute and chronic wounds
- + Cuts & abrasions
- + Burns, sores, ulcers
- + Degloving injuries
- + Dermal and mucosal irritations
- + Lower-extremity wounds, pads on feet, interdigital areas
- + Grafted and donor sites
- + Post-surgical applications
- + Reduces pain and odor

Features

- Vetericyn Plus® VF has been shown to have anti-pruritic activity along with antimicrobial action
- Spray-on formula allows for easy application and can be used for added pressure during mechanical debridement
- Multiple sizes available for in-clinic and patient use
- Leaves no residue
- Safe if licked or ingested
- No antibiotics or steroids- safe for use in animals for systemic disease- diabetes

Benefits

- Aids in autolytic debridement
- Reduce incidence of exuberant granulation tissue (proud flesh)
- Provides itch and pain relief of dermatological ailments
- Protects wound bed from foreign bodies
- Safe for use on newborn animals even before eyes open

DVM Case Study: Wounds from Dog Fight

Problem: Dog was in a fight with another dog. She was limping on a front leg and had several bite wounds to her neck, shoulders, and legs. Initial vet gave oral antibiotics and kept dog for 5 days but had developed a terrible wound odor.

Product(s) Used: The wounds were debrided and flushed with Antimicrobial Wound & Skin Cleanser. Due to infection and the amount of lost tissue the wounds could not be sutured. Owner was instructed to flush the wounds daily with Antimicrobial Wound & Skin Cleanser and apply Antimicrobial Wound & Skin Hydrogel 2-4 times daily.





ANTIMICROBIAL WOUND & SKIN HYDROGEL

Vetericyn Plus® VF Antimicrobial Hydrogel is a sprayable viscous solution specially formulated for moistening and debriding wounds of all types. It contains synthesized hypochlorous, a known antimicrobial also produced by the animal during phagocytosis that can be used on all tissue without harming fibroblast cells.

16.9 oz Antimicrobial Wound & Skin Hydrogel

Product #: 2040	Bottle Weight (lbs): 1.15 lbs
Application Type: Spray Nozzle Gel	Bottle Dimensions: 2.75" x 2.75" x 8.25"
Size: 16.9 oz	Bottles per Case: 6
UPC #: 852009002222	Case Weight (lbs): 7.45 lbs

2 oz Antimicrobial Wound & Skin Hydrogel*

Product #: 2042	Bottle Weight (lbs): 0.15 lbs
Application Type: Pump Gel	Bottle Dimensions: 1.4" x 1.4" x 4.5"
Size: 2 oz	Bottles per Case: 12
UPC #: 818582011358	Case Weight (lbs): 2.3 lbs

*Available in dispensing kit configuration only. See page 16 for more information.

Antimicrobial Wound & Skin Hydrogel provides the optimized moisture to maximize the wound healing environment while helping to keep dirt and debris out of the area.

The gel sprays in a fine mist and gels on contact to cling to the site and immediately provide soothing relief and protection.

	WOUND & SKIN HYDROGEL	WOUND BARRIER GEL (See pg. 10)
Viscosity range (Centipoise):	100 - 200 CPS	350 - 450 CPS
Consistency similar to:	Olive Oil	Ketchup
Product picture		

IMPROVED APPLICATION.

Our hydrogel formula has been enhanced to make it easier to use for dermal applications, moisture donation for wound management, or applying to dressings with pinpoint accuracy.

Uses

- + Acute and chronic wounds
- + Cuts & abrasions
- + Burns, sores, ulcers
- + Degloving injuries
- + Dermal and mucosal irritations
- + Lower-extremity wounds, pads on feet, interdigital areas
- + Grafted and donor sites
- + Post-surgical applications
- + Reduces pain and odor

Features

- Vetericyn Plus® VF has been shown to have anti-pruritic activity along with antimicrobial action
- Spray-on formula allows for easy application and adheres to site on contact, thus minimizing discomfort to the animal
- Two sizes for in-clinic and patient use
- Sprayable gel moistens and softens tissue for easier wound bed preparation
- No antibiotics or steroids - safe for use in animals with systemic disease, such as diabetes

Benefits

- Aids in autolytic debridement
- Reduce incidence of exuberant granulation tissue (proud flesh)
- Provides itch and pain relief of dermatological ailments
- Protects wound bed from foreign bodies
- Adheres to areas difficult to treat
- Safe for use on newborn animals even before eyes open

DVM Case Study: Mastitis on Mammary Gland

Problem: This female dog developed mastitis in one mammary gland which abscessed and ruptured. The initial swelling and rupture was not noticed however the dog was presented for treatment the following day.

Product(s) Used: The wound was flushed with Antimicrobial Wound and Skin Cleanser and then filled with Antimicrobial Wound & Skin Hydrogel. Using the same products, the owner was instructed to flush and clean the wound as needed twice daily for one month. Oral antibiotics were also prescribed.





ANTIMICROBIAL WOUND BARRIER GEL

Vetericyn Plus® VF Antimicrobial Hydrogel is a high-viscous hydrogel formulated to stick to site of application and moistening and debriding wounds of all types. It contains synthesized hypochlorous, a known antimicrobial also produced by the animal during phagocytosis that can be used on all tissue without harming fibroblast cells.

8 oz Antimicrobial Wound Barrier Gel

Product #: 2045	Bottle Weight (lbs): .6 lbs
Application Type: Septum Cap Thick Gel	Bottle Dimensions: 1.75" x 1.75" x 5.75"
Size: 8 oz	Bottles per Case: 6
UPC #: 818582012737	Case Weight (lbs): 4 lbs

3 oz Antimicrobial Wound Barrier Gel

Product #: 2047	Bottle Weight (lbs): 0.25 lbs
Application Type: Yorker Thick Gel	Bottle Dimensions: 1.625" x 1.625" x 5"
Size: 3 oz	Bottles per Case: 6
UPC #: 818582012744	Case Weight (lbs): 2.05 lbs

Offered in two squeeze applications, the Antimicrobial Wound Barrier Gel is more viscous than our spray gel and adheres to the site of application with ease.

A syringe can also be used to extract product from the 8 oz bottle to have pinpoint accuracy when needed.

	WOUND & SKIN HYDROGEL (See pg. 8)	WOUND BARRIER GEL
Viscosity range (Centipoise):	100 - 200 CPS	350 - 450 CPS
Consistency similar to:	Olive Oil	Ketchup
Product picture		

NEW BARRIER GEL.

Newly formulated Barrier Gel offers users a high-viscosity option for dermal applications, moisture donating for wound management, or applying to dressings with pinpoint accuracy.

Uses

- + Acute and chronic wounds
- + Cuts & abrasions
- + Burns, sores, ulcers
- + Degloving injuries
- + Dermal and mucosal irritations
- + Lower-extremity wounds, pads on feet, interdigital areas
- + Grafted and donor sites
- + Post-surgical applications
- + Reduces pain and odor

Features

- Vetericyn Plus® VF has been shown to have anti-pruritic activity along with antimicrobial action
- Septum cap (8oz) allows for drawing up desired amount of product and more precise application, decreases waste of product and reduces chance of maceration to adjacent tissues
- Eliminates wide spray and splash back
- Thicker gel promotes optimal moisture balance for wound healing

Benefits

- Aids in autolytic debridement
- Reduce incidence of exuberant granulation tissue (proud flesh)
- Provides protection from environmental exposure
- Protects wound bed from foreign bodies
- Adheres to areas difficult to treat

DVM Case Study:

Dog with Flesh-Eating Bacteria

Problem: Dog developed Necrotizing Fasciitis, commonly referred to as 'flesh-eating bacteria', at 10 weeks of age.

Product(s) Used: After extensive surgical debridement, the problem area was flushed and cleaned with Antimicrobial Wound and Skin Cleanser then coated with Antimicrobial Wound & Skin Hydrogel prior to bandaging. Dog was also given IV Cefazolin every 8 hours for the first 48 hours then switched to intramuscular (IM) injection. Mortality rate normally exceeds 70-80%, however dog was able to recover very quickly.

