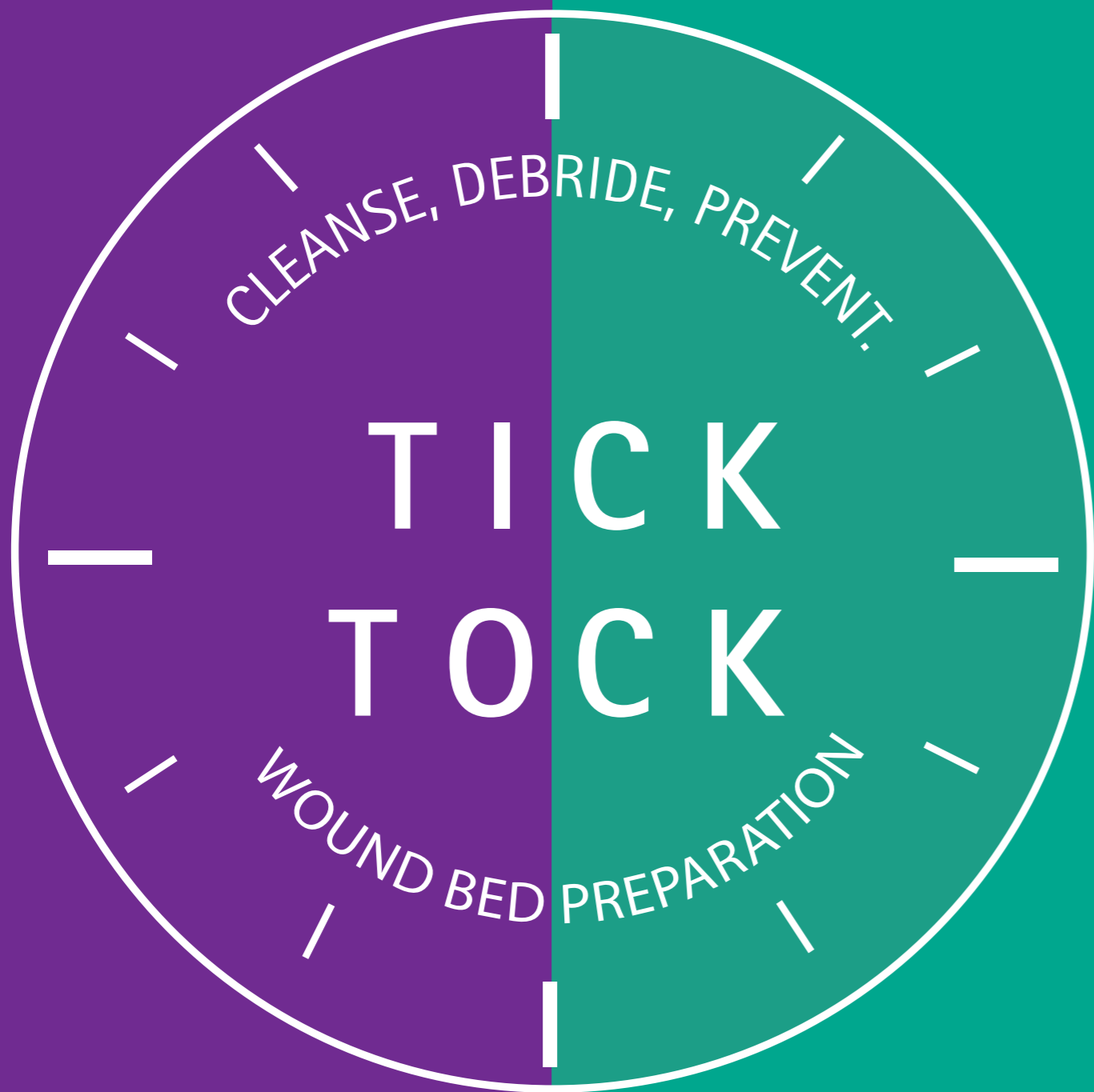


Prontosan®

WOUND BED PREPARATION: TIME TO MAKE A DIFFERENCE



TIME IT RIGHT, FROM THE START - WOUND BED PREPARATION

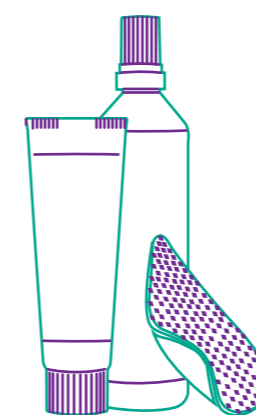
WHAT IS WOUND BED PREPARATION?

Wound Bed Preparation (WBP) is a systematic approach aimed at creating an optimal wound healing environment



WHY IS IT IMPORTANT?

WBP supports removing barriers in the wound bed such as slough and biofilm, this promotes faster wound healing.

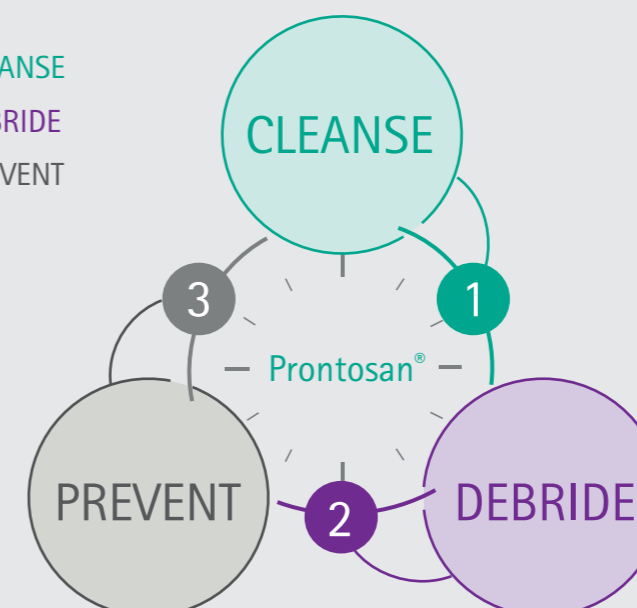


WOUND BED PREPARATION
HELPS TO IMPROVE
THE OVERALL
WOUND CONDITION

- ✓ Decreased exudate
- ✓ Less slough
- ✓ Reduced odour
- ✓ Faster wound healing
- ✓ Preventing wound tracking and undermining
- ✓ Removal and prevention of biofilm
- ✓ Prevention of infection

The Prontosan® system for wound bed preparation is simple:

- 1 CLEANSE
- 2 DEBRIDE
- 3 PREVENT



Scan the QR code to find out more about Wound Bed Preparation



BIOFILM AND SLOUGH – NO TIME TO DELAY

UP TO

90%

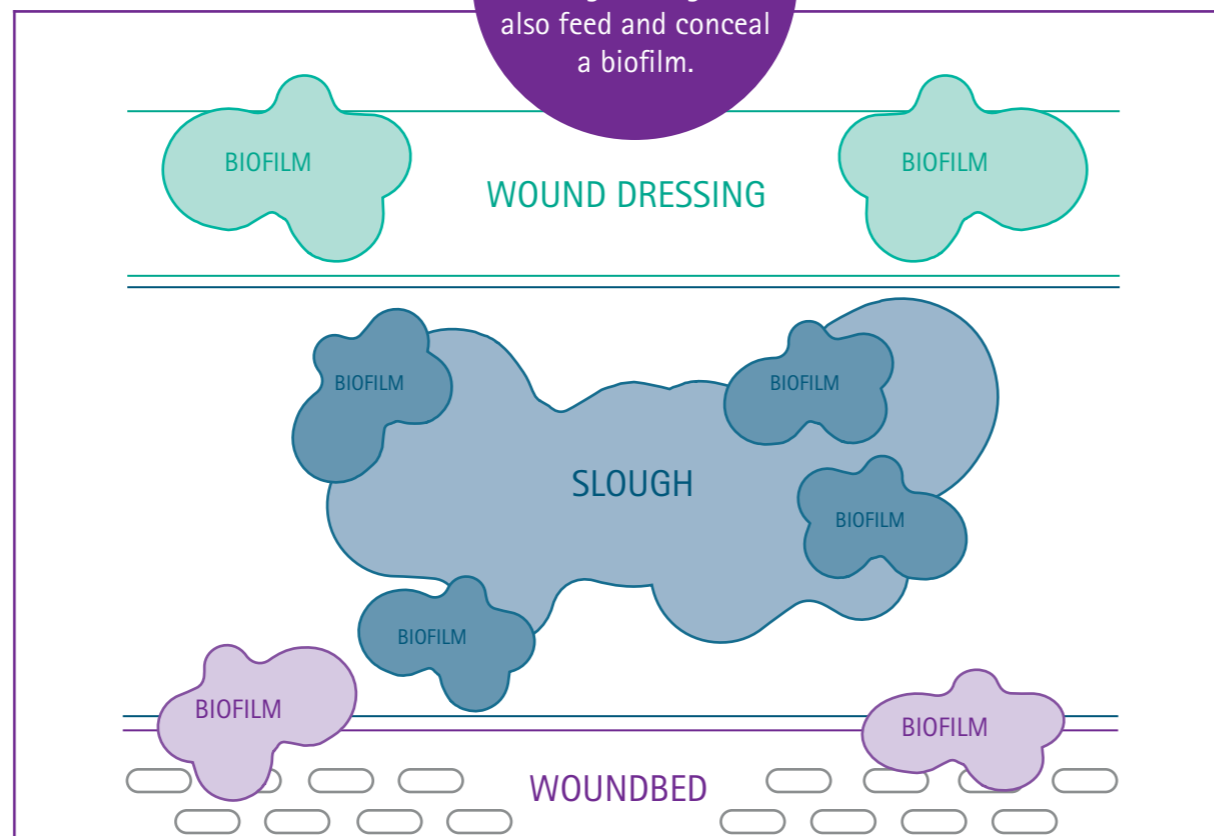
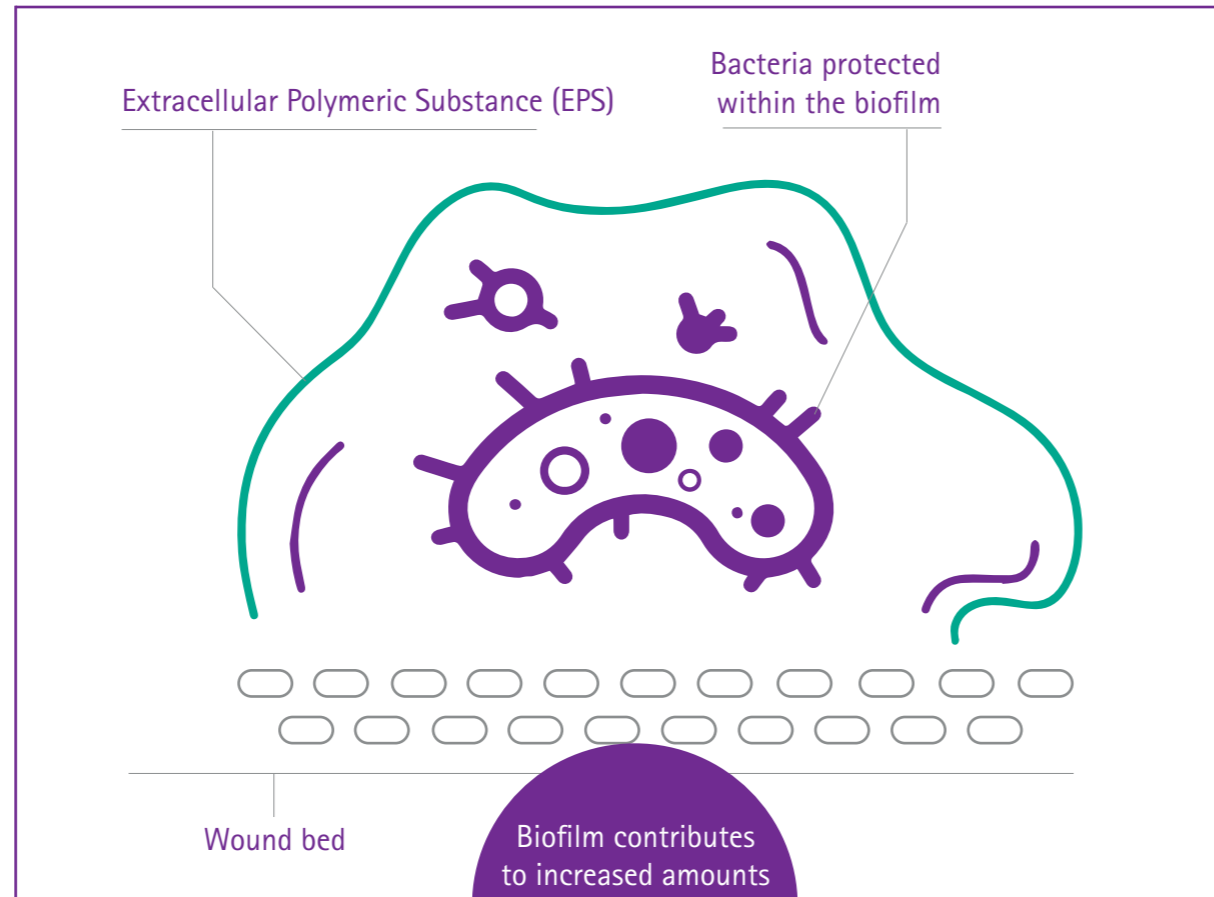
OF CHRONIC WOUNDS CONTAIN A BIOFILM¹

A biofilm is a community of bacteria protected by a thick barrier of sugars and proteins; this is the extracellular polymeric substance or EPS.

Biofilms cannot be seen by the naked eye and can delay wound healing.

BIOFILMS CAN BE RESPONSIBLE FOR²:

- Wound infection
- Increased slough
- Increased exudate
- Increased oedema and inflammation



TICK TOCK

SLOUGH AND BIOFILM FORM IN A CYCLE, BOTH RETURN QUICKLY BETWEEN DRESSING CHANGES.

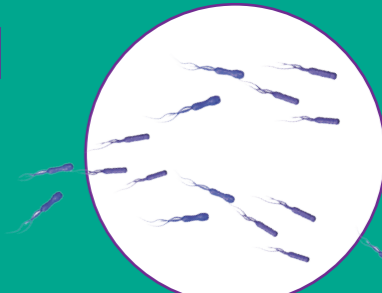
TICK TOCK – A RACE AGAINST TIME

BIOFILM CYCLE

WITHIN MINUTES

CONTAMINATION

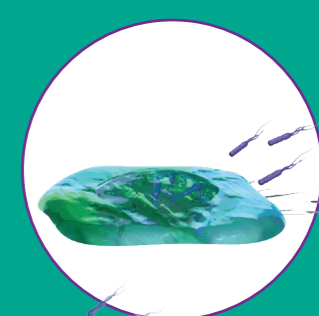
Free floating bacteria attach to a surface within minutes. Initial attachment is reversible.



WITHIN 2 - 4 HOURS

COLONISATION

Bacteria multiply and become firmly attached. Slough may be present.



WITHIN 6 - 12 HOURS

BIOFILM DEVELOPMENT AND INFLAMMATORY HOST RESPONSE

Biofilm develops initial EPS and becomes increasingly tolerant to antibiotics and antimicrobials. Slough may be present.



WITHIN 2 - 4 DAYS

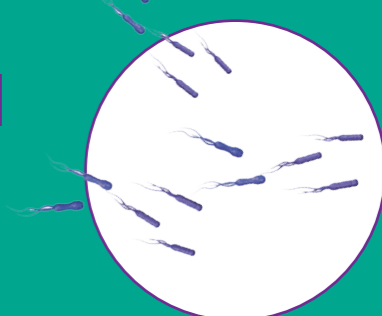
SPREADING LEADS TO SYSTEMIC INFECTIONS

Mature biofilm is extremely resistant to antibiotics and antimicrobials. Slough is likely present. Bacteria is released for further contamination.



CYCLE REPEATS

Mature biofilm causes recolonisation which results in a never-ending biofilm cycle



WOUND BED PREPARATION STEP: CLEANSE



CLEANSING TARGETS: SLOUGH, DEBRIS, BIOFILM, EXUDATE

TICK TOCK - PRONTOSAN SOLUTION



Traditionally, tap water or saline has been used to cleanse wounds, however neither have active ingredients and can only remove loose debris.

TICK TOCK

TIME IT RIGHT

Prontosan Solution cleanses the wound and can be used as an irrigation or soak, dependent on the wound's condition. Prontosan contains active ingredients which can cleanse the wound bed of slough, debris and remove biofilm.³

CLEAN, GRANULATING WOUND



Irrigate or <5 min soak

LOW TO MODERATE SLOUGH



5 - 10 min soak

HEAVY SLOUGH OR INFECTION

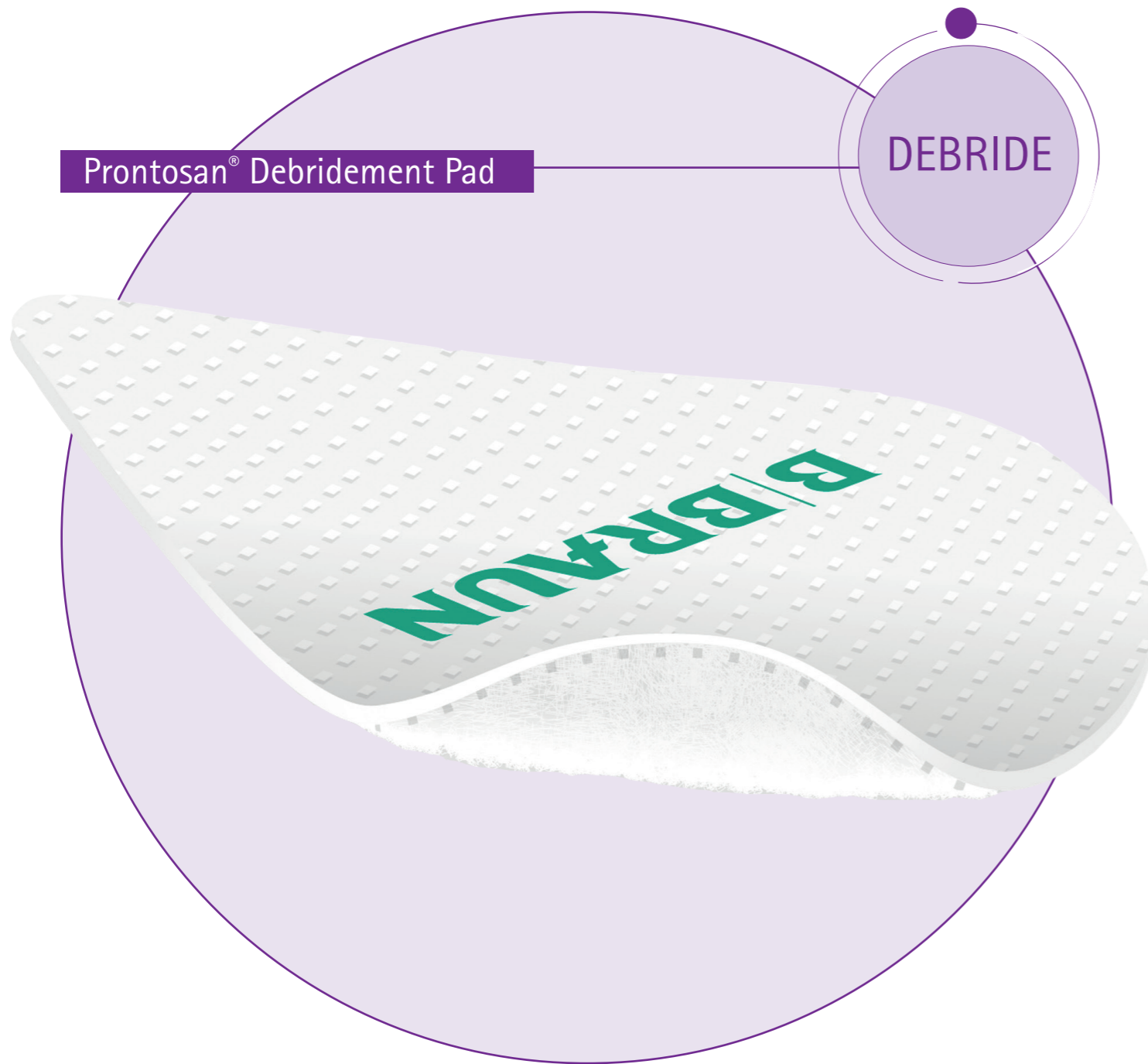


10 - 15 min soak

PRONTOSAN SOLUTION SOAK IN MODERATE SLOUGH



WOUND BED PREPARATION STEP: DEBRIDE



TICK TOCK - PRONTOSAN DEBRIDEMENT PAD



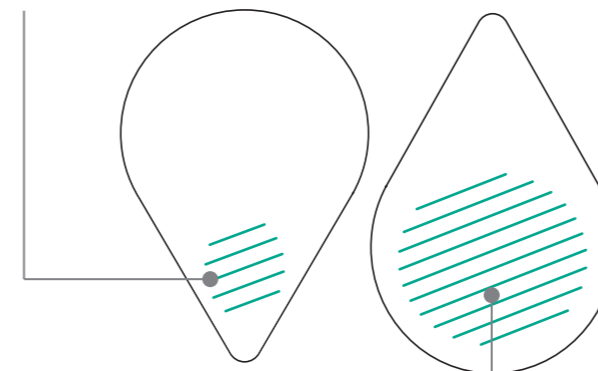
Mechanical debridement is fast and effective at removing wound debris, slough and biofilm and is accessible to all clinicians, needing minimal training or equipment.

TICK TOCK
DEBRIDE IN NO TIME

Prontosan Debridement Pad is designed for soft mechanical debridement; microfibres lift and remove slough and debris for effective wound bed preparation. Clinician feedback showed that patient comfort was 95% and the majority of users preferred Prontosan Debridement Pad to their existing pad.⁴

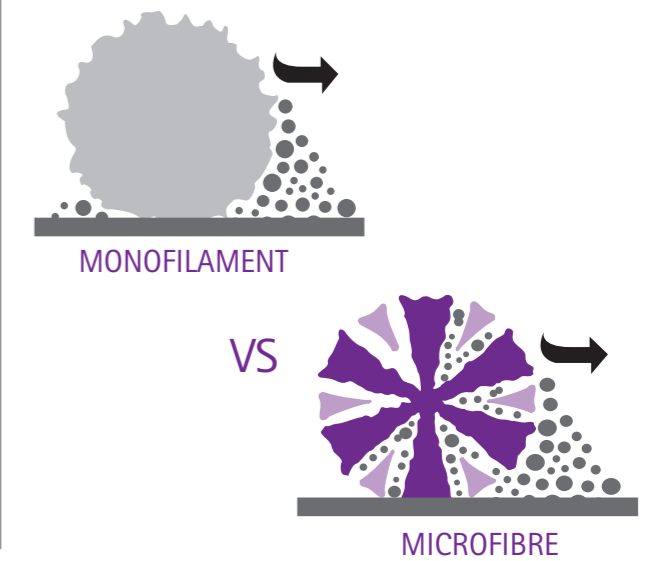
SHAPED FOR ALL WOUND TYPES

Tapered for difficult to access areas and cavities



Wider for larger areas

Microfibres are very small and provide a large surface area for removing the smallest of particles.



RESULTS AFTER A SINGLE DEBRIDEMENT



DEBRIDEMENT TARGETS: ADHERENT SLOUGH, ADHERENT BIOFILM

WOUND BED PREPARATION STEP: PREVENT



TICK TOCK - WORKING AROUND THE CLOCK



Once a wound has been prepared through cleansing and debridement it looks clean – however, **biofilm and slough can still reform, often within hours**. Time is critical and biofilm disrupting products are recommended as the final step of wound bed preparation.



WORKING AROUND THE CLOCK

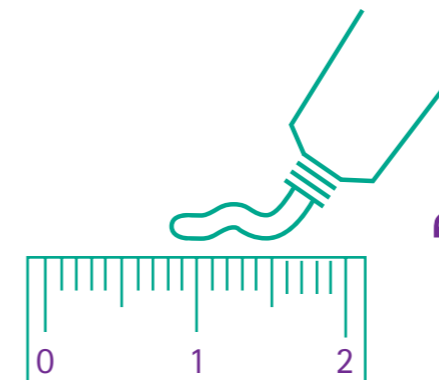
Prontosan Gel X helps to maintain a moist wound environment and provides a barrier to help prevent recontamination. Prontosan Gel X contains a surfactant betaine, which helps to soften slough and debris between dressing changes and helps prevent biofilm reforming.⁵

PRONTOSAN GEL HAS BEEN SHOWN TO REDUCE SLOUGH

BY **42%** IN JUST **2 WEEKS⁶**

APPLICATION

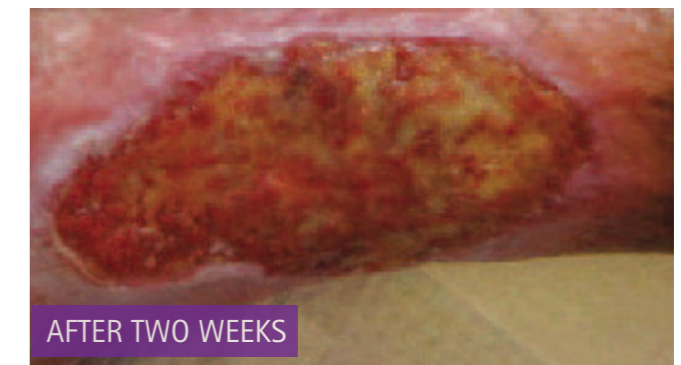
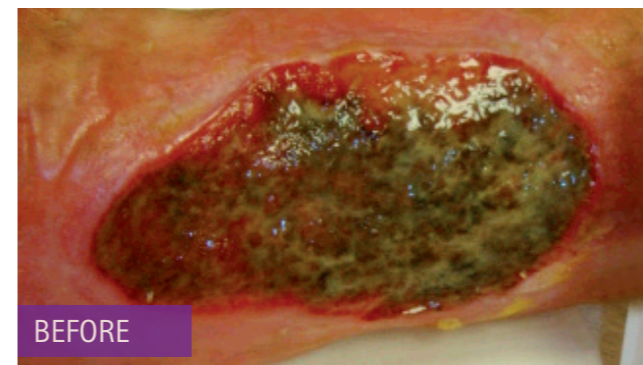
Apply a layer of Gel X directly to the wound bed, or to the dressing if preferred. Adjust application to ensure wound bed contact between dressing changes.



“ In leg ulcers I aim to apply a layer of Gel X approximately the thickness of a £1 coin. ”

DW, Clinical Nurse Specialist UK

RESULTS AFTER APPLYING PRONTOSAN GEL X



BIOFILM PREVENTION TARGETS: BIOFILM REFORMATION, SLOUGH

PRONTOSAN SOLUTION AND GEL X INGREDIENTS

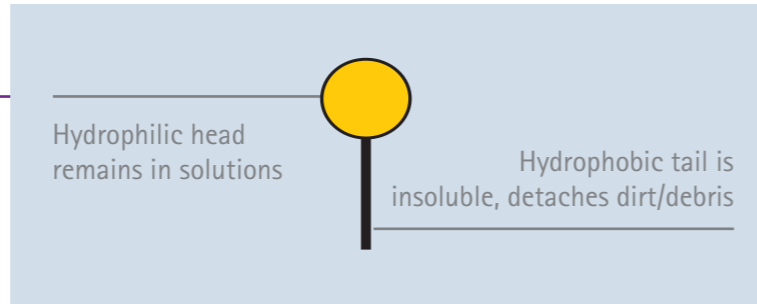
Prontosan contains two key ingredients to support you in the fight against slough and biofilm:

BETAINE

A gentle, effective surfactant (detergent) which is able to penetrate, disturb, clean and remove biofilm and wound debris.

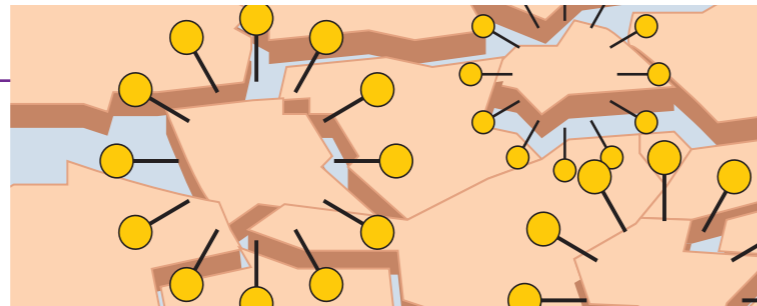
BETAINE MOLECULE

Contains, polar charged, ends to support cleansing.



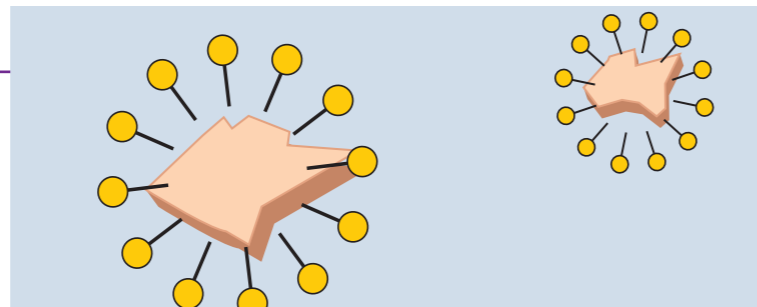
ANCHORS TO BIOFILM AND SLOUGH PARTICLES

The surface tension is reduced, supporting softening, loosening and detaching of dirt, debris and biofilm. The charged 'heads' repel each other to support 'breaking apart' debris and biofilm.



REMOVES AND HOLDS IN SOLUTION

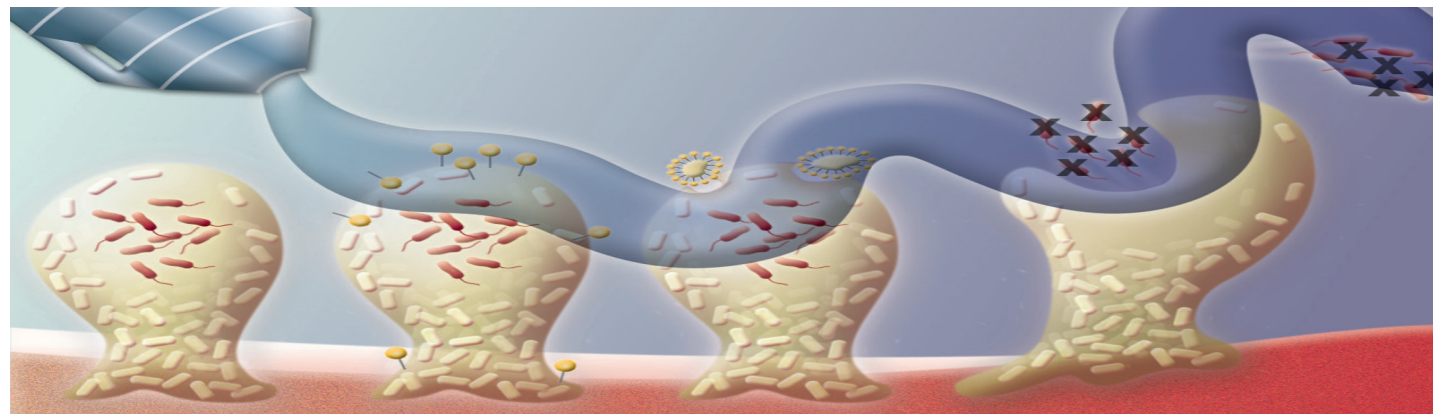
Holds dirt, debris and biofilm in the solution, removing from the wound bed and preventing recontamination.



POLYHEXANIDE (PHMB)

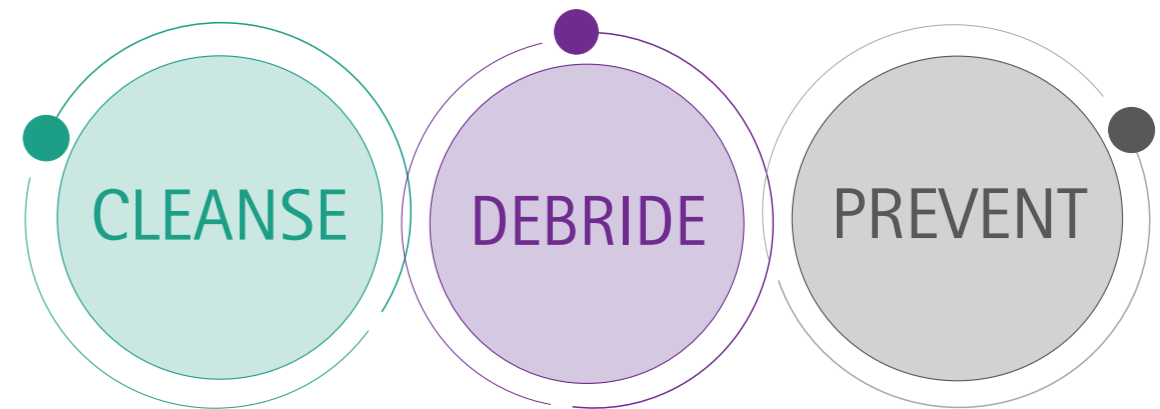
An antimicrobial which can work on the bacteria within a biofilm, once exposed by betaine's disruptive effect.

PHMB is a highly effective broad-spectrum antimicrobial, active against gram negative and gram positive bacteria, fungi, yeast and viruses. PHMB has been in general use for about 60 years; it has demonstrated a balance of tolerability to host cells and efficacy - tests show removal of bacteria in less than 1 minute including in MRSA and Pseudomonas.⁷



PRONTOSAN[®]

THE COMPLETE WOUND BED PREPARATION SYSTEM



<p>84% REDUCTION IN INFECTION RATE⁸</p>	<p>4 WEEKS FASTER HEALING⁹</p>	<p>55% REDUCTION IN DRESSING CHANGES¹⁰</p>	<p>SAVE £867 PER PATIENT¹¹</p>
--------------------------------------------------------	-----------------------------------------------	-----------------------------------------------------------	---------------------------------------------------

TICK TOCK

NO TIME LIKE THE PRESENT
GET IN TOUCH

TO FIND OUT MORE ABOUT HOW WE CAN PARTNER WITH YOU TO DEVELOP A WOUND BED PREPARATION PATHWAY, OR TO FIND OUT MORE INFORMATION, PLEASE CONTACT US:

SCAN THE QR CODE

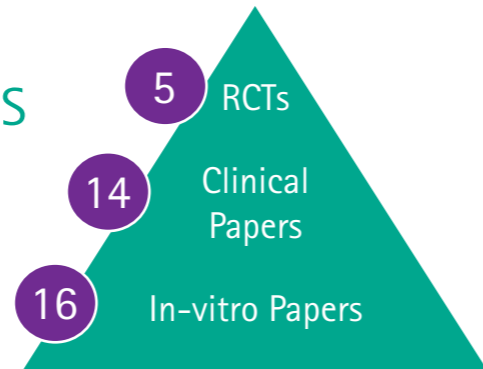
OR VISIT

www.bbraun.co.uk/prontosan



EVIDENCE BASED WOUND CARE - TIME TO ACT

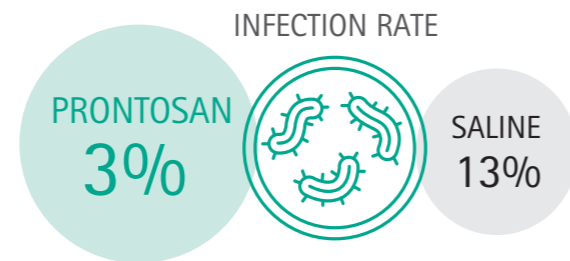
THERE ARE OVER **35** PUBLISHED PAPERS AND ARTICLES SUPPORTING THE USE OF **PRONTOSAN:**



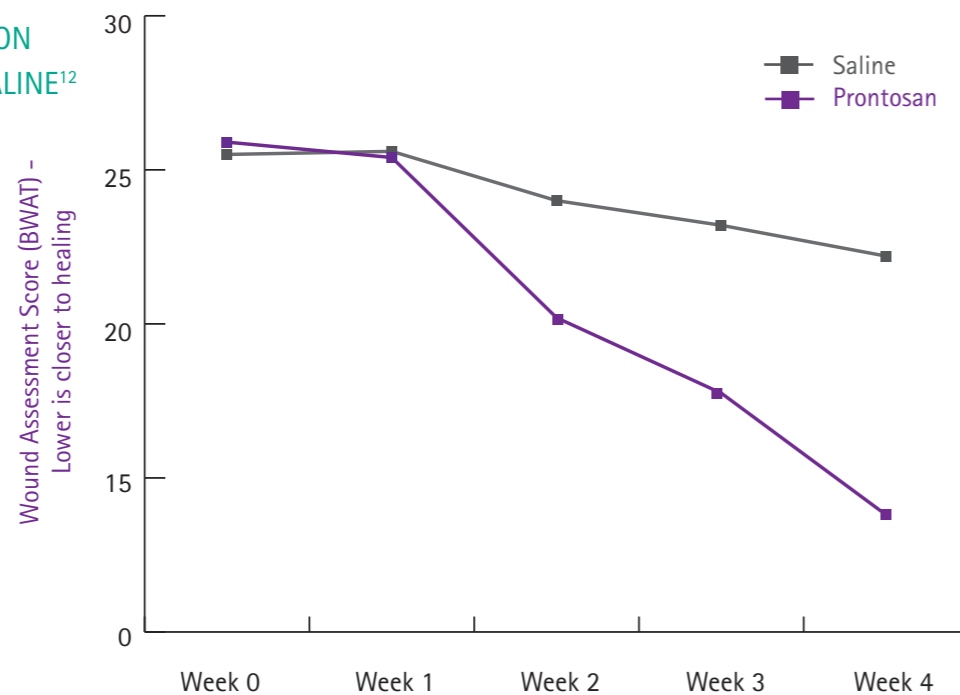
OVER 60% OF PATIENTS HEALED AT 3 MONTHS

4 WEEKS FASTER HEALING WITH PRONTOSAN COMPARED TO SALINE⁹

PRONTOSAN 3.31 months mean healing | SALINE 4.42 months mean healing



WITHIN 28 DAYS IMPROVED WOUND CONDITION COMPARED TO SALINE¹²



“ Prontosan promotes wound bed preparation, reduces inflammatory signs and accelerates healing, in venous or mixed vascular leg ulcers and pressure ulcers¹². ”

WOUND BED PREPARATION PATHWAYS IN UK TRUSTS

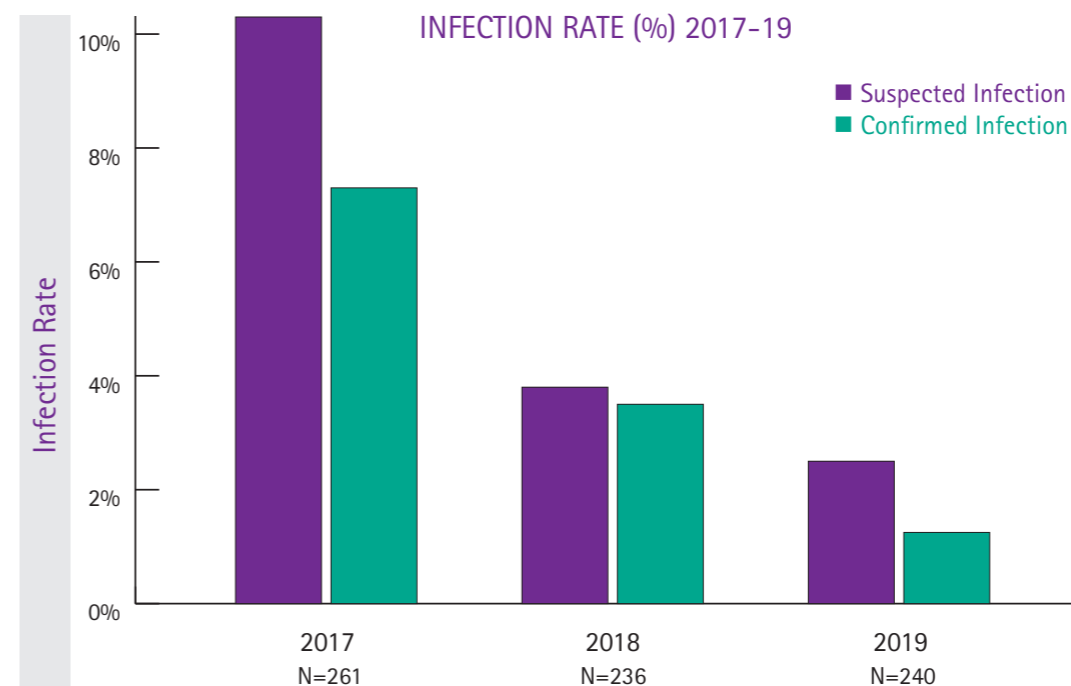
Pathways including Prontosan have been adopted in several trusts around the UK, here are some of the results from two teaching hospitals.

Organisms	Aug 2012 – Nov 2013	June 2015 – Sept 2016	Difference
Other organisms	33	0	-100%
Enterococcus	6	5	-17%
Staphylococcus aureus (MRSA)	31	23	-26%
Escherichia coli/ vulneris	52	6	-88%
Pseudomonas	68	2	-97%
Anaerobic organism	51	4	-98%
Staphylococcus (excluding MRSA)	221	6	-97%
Enterobactor	23	1	-96%
Streptococcus	42	2	-95%
Yeast (undifferentiated)	17	0	-100%
Total	544	49	-92%

TICK TOCK

TIME TO ACT

92% REDUCTION IN WOUND ASSOCIATED HCAI/SSIS OVER 3 YEARS¹³



84.3% REDUCTION IN CONFIRMED WOUND INFECTIONS OVER 3 YEARS¹⁴

ORDERING INFORMATION

Product Description	Size	Pack Size	Product Code	PIP Code	NHSSC Code
Prontosan Solution	40 ml ampoule	24	400484	374-5940	ELY424
	350 ml bottle	10	400403	324-8572	ELY248
	1000 ml bottle	10	400446	402-8544	ELY618
	Adapter for NPWT	10	3908437	-	ELZ980
Prontosan Gel	30 ml	20	400505	324-8598	ELZ213
Prontosan Gel X	50 g tube	20	400517	378-1796	ELZ542
	250 g tube	20	400508	367-8612	ELZ396
Prontosan Debridement Pad	Pack of 3 pads	3	3908456	406-9290	ELZ887
	Pack of 10 pads	10	3908457	-	ELZ888

TO FIND OUT MORE INFORMATION PLEASE CALL US ON:

0114 225 9020

OR VISIT

www.bbraun.co.uk/prontosan

B. Braun Medical Ltd | OPM | Thorncliffe Park | Sheffield | S35 2PW
Tel: 0114 225 9000 | Fax: 0114 225 9111 | www.bbraun.co.uk

XX-TTPRB-03-22

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