

Microdacvn

•••••••

Microdacyn® Wound Care Solution Microdacyn® Lydfoggl

Clinically Proven To Heal Wounds Faster, With Fewer Infections



Antimicrobial | Anti-Biofilm | Healing | How to Use | Clinical Evidence

Microdacyn is a class llb Medical Device for use in the debridement and moistening of acute and chronic wounds, ulcers, cuts, abrasions and burns including those located in any human cavity such as the oral, nasal or ear. Sodium hypochlorite and hypochlorous acid are ancillary substances may have a local antimicrobial effect. Through reducing the microbial load and assisting in creating a moist environment, it enables the body to perform its own healing process. Microdacyn® Wound Care can be broadly applied within a comprehensive wound treatment. Do not use if sensitive to hypochlorous acid or sodium hypochlorite. Always read the instructions for use, detailed instructions can be found at www.microdacyn.com.au



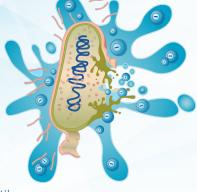
Antimicrobial | Biofilm

Super-oxidized solutions (SOS) and hydrogels utilize physiological concentrations of naturally occuring reactive oxygen speices such as hypochlorous acid to induce osmolysis In a non-antibiotic & chemical free process

Hypochlorous acid is naturally present in the human body & is produced as a natural response to infection by the white blood cells in our immune system through a mechanism known as a oxidative burst.

Unlike traditional antiseptics & wound washes Microdacyn[®] only causes damage to single cell microbe such as bacteria and is not cytotoxic to human cells allowing the delicate cells involved in healing to progress unhindered¹⁵

Recent consensus²⁸ has concluded that **rather than inhibt wound healing**, **Microdacyn® improves wound healing** and is indicated for use without restriction in all areas of the anatomy due to it's low cytotoxicty. This makes Microdacyn® highly versatile



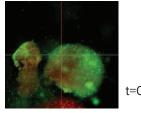
Proven >99.99% effective against: Bacteria (incl MRSA), Fungi, Viruses, Spores & Uniquely Penetrates Biofilms²

International Wound Infection Institutes (IWII) Clinical Practice Gudielines 2016				
Treatment	Betadine [®]	Prontosan [®]	Microdacyn ®	
Generic Name	Antiseptic	Surfactant-based Antiseptic	Super-Oxidised Solution	
Concentration	10%	0.1%	0.004%	

Super-Oxidised Solutions Do Not Promote Bacterial Resistance²¹

Biofilm

Super-oxidised solutions "rapidly penetrate biofilms killing microbes from within"21





An example of this rapid penetration is shown here:

Fluorescence microscopy of a mature, 6 day, *Pseudomonas aeruginosa* biofilm before and after 10 minutes of repeated exposure. It is clear to see uniform penetration and eradication of living microbes throughout the bioflm

Green | Living Microbes Red | Dead Microbes

OKIDISED SOL

Microdacy

Inflammation | Healing | Clinical Evidence

The low concentration super-oxidizing species found in Microdacyn[®] are naturally occurring in many of the bodies oxygen-dependent healing mechanisms including angiogenisis and tissue oxygenation

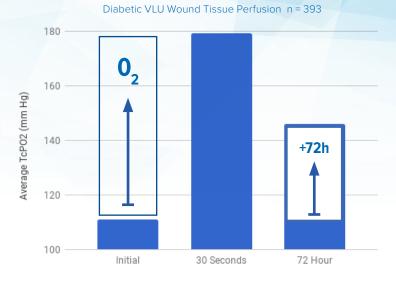
The use of Microdacyn has been demonstrated to:

•Reduce Inflammation, Itch & Irritation²⁰ •Increase available oxygen (TcPO2 - mmHg)^{3,5}

Here we observe the average tissue oxygenation effects when applying Microdacyn® to 393 non-insulin dependent diabetic (NIDDM) patients venous leg ulcers. (VLU)

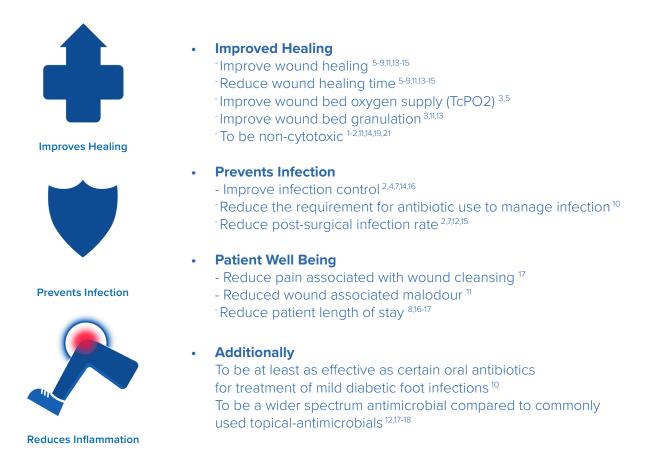
The TcPO2 levels are significantly increased to quickly improve tissue conditions within the wound and are sustained above baseline for up to 72 hours⁵

Oxygen perfusion is crucial to achieving wound healing.



Clinical Evidence

Microdacyn® is clinically proven to heal wounds faster than saline or antiseptics²³



References: 1: S.A. Rani et al, 2014 2: Javier Aragón-Sánchez, 2013 3: Cheryl M.Bongiovanni, 2006 4: R. K. Chittoria, 2007 5: Cheryl M. Bongiovanni, 2016 6: Nina Fanggang, 2008 7: Chiara Goretti, 2007 8: Syed Fazle Hadi, 2008 9: Marwaha, 2010 10: Adam Landsman, 2011 11: Fermin R Martinez-De Jesus, 2007 12: Abdul Ramzisham Rahman Mohd, 2010 13: P K Pandey, 2011 14: Luca Dalla Paola, et al., 2006 15: A. Piaggesi MD, 2010 16: Elia Ricci, 2007 17: Ariel Miranda Altamirano, 2006 18: C. Landa-Solis, 2005 19: J. Medina-Tamayo, 2007 20: Friedman et al, 2017 21: Swanson et al WII 2016 22: Kramer et al 107 Many full articles available at **www.microdacyn.com.au**

How to Use | Product Details

Microdacyn[®] should be applied liberally at every dressing change or up to 3 times daily in place of saline or antiseptics Microdacyn[®] is used in conjunction with manual debridement not as a replacement.

1 Saturate



Irrigate the wound by generously applying Microdacyn® Wound Care Solution directly onto/into the wound to the point of saturation. Microdacyn® can also be used to clean the surrouding peri-wound.



Use Microdacyn® liberally to irrigate/flush the wound clean during debridement. A gauze soaked in Microdacyn can be used to manually clean with light abbrasion, as a compress soak to aid desloughing or both to acheive a clean wound bed ready for dressing.

3 Treating & Healing



Cover & Dress

100% Compatible incl Ag

To the clean wound bed, apply gauze soaked in Microdacyn® for up to 10 minutes. This will assist in reducing the remaining bacterial load and biofilm post debridement. Extending contact time will improve anti-biofilm efficacy **Do Not Rinse Out**

+ Higher Risk Patients, Infected, Chronc or Non-Healing Wounds



Increasing the contact time in situ increases antimicrobial effectiveness ensuring persistent micobes and biofilms are eliminated

If starting treatment in an existing chronic wound, soak for 15+ minutes for maximum effect. Microdacyn® soaked gauze is a sutiable packing medium

+ Spay On Hydrogel



Apply 2-5mm thick when a hydrogel is suitable to donate moisture and promote autolytic debridement.

Microdacyn[®] Hydrogel will gel on contact with the air immediately after being sprayed. It may be refrigerated before use for soothing burns and can used several times a day. For chronic wounds it may remain on the wound for up 3 days



Microdacyn® Wound Care

Super-Oxidised Water, Sodium Chloride (0.022%), Hypochlorous Acid (0.004%), Sodium Hypochlorite (0.004%), Ancilary Substances including Oxygen & Ozone

Microdacyn® Hydrogel

Super-Oxidised Water, Sodium Chloride (0.066%), Hypochlorous Acid (0.004%), Sodium Hypochlorite (0.002%), Ancilary Substances including Oxygen & Ozone Additionally Sodium Magnesium Fluorosilicate Gelling Agent (3.0%)

Product Description	Internal Code	
Microdacyn [®] Wound Care Solution 120ml	MDWC120	Box 24
Microdacyn [®] Wound Care Solution 250ml	MDWC250	Box 12
Microdacyn [®] Surgical Irrigation Solution 990ml	MDSIWT990	Box 6
Microdacyn® Hydrogel 60g	MDHG60	Box 24

Tearna BioFarma

1800 83 2724 www.tearaibiofarma.com.au enquiries@tearaibiofarma.com

"Stop anointing wounds & start cleansing wounds"

International Wound Infection Institutes Clinical Practice Guidelines

Microdacyn® is compatible with:

- All Wound Dressings
- Leaving Soaked Gauze in the Wound
- Pulse Lavage / Wound Irrigation
- Under Occlusion
- NPWTi & Ultrasonic Debridement

Microdacyn[®] can be used on:

- Skin
- Mucosa
- Exposed Ligament, Joints, Bones & Tendons
- Sensitive Areas Such as Eyes
- Children

Product Information

- Ready-to-use, pH neutral solution
- 24 month unopened shelf life
- Discard Within 60 Days of Opening
- Does not promote bacterial resistance²¹
- Available from your local pharmacy

