



Microdacyn

Safe as Water 

Complete Wound Care & Scar Management

Free of Chemicals, Steroids & Antibiotics
Made from Natural Elements

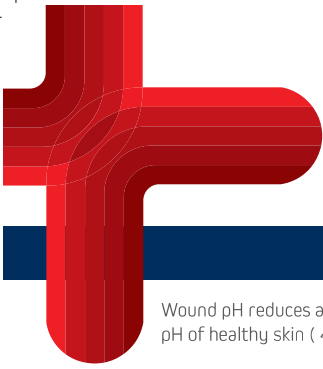
Non -Cytotoxic, Non-Irritating
Safe for Eyes, Nose, Mouth & Other Body Cavities

Biodegradable
No Special Handling and Disposal Required



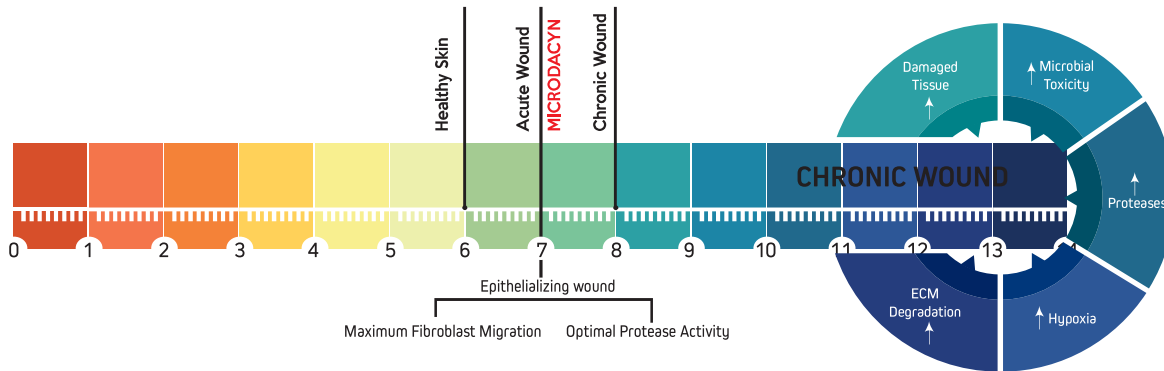
365
MEDICAL
RESPONSIBLE HEALTHCARE





Do You Know

Wound pH reduces as the wound process through stages of healing, suggesting pH could be a useful tool to predict successful wound healing.¹ pH of healthy skin (4.5 to 6.5), acute wound (7.0) and chronic wound (8 and above) differs significantly.



MICRODACYN Neutral pH wound care solution reboots healing by shifting alkaline environment of chronic wound towards neutral pH to slightly acidic milieu of the skin.

What is Microdacyn

Microdacyn : India's Only pH Neutral Superoxidised Solution of Hypochlorous Acid Formulation Approved by CDSCO India (The Central Drugs Standard Control Organisation) for use in Humans for the Treatment of all Types Infected, Non-Healing Acute & Chronic Wound.

Microdacyn is the only wound care solution which is SAFE and EFFECTIVE on all stages of wound healing.

Neutral pH of Microdacyn makes its safe and gentle for granulation tissue, preserving the health of healing granulating cells while fighting infection.

Hypochlorous Acid is One of the Major Microbicidal Compound of Innate Immunity, Produced by Neutrophils (WBC's) During Immune Reaction (Phagocytosis) to Destroy Pathogens with No Evidence of Microbe Resistance, Making it an Ideal Wound Care Agent with Powerful Microbicidal, Antibiofilm and Wound Healing Potency.

Microdacyn – Reboots Wound Healing

Triple Mode of Action

ANTI-MICROBIAL



- Broad Spectrum Anti-microbial Works against Bacteria, Virus, Fungi, Spores & Biofilms via Oxidative Damage
- Reduce Microbial Load in 30 Seconds
- Penetrates Biofilm and Prevents the Reoccurrence of Microbial Infection.
- Reduced Fetid Odor

CONTROL INFECTION

ANTI-INFLAMMATORY



- Reduces Inflammation & Inflammatory Symptoms
- Inhibit the activity of mast cells, cytokine release and protease (MMP & TIMP) regulation promoting the physiological healing process.
- Reduces Pain & Itch

REGULATES PROTEASES

STIMULATE HEALING



- Increase TcPO2 Level as high as 172 mm Hg sustained for 3 days
- Improve Granulation & Epithelialization
- Oxygen Plays Critical Role in the Formation of Collagen, Growth of New Capillaries and Control of Infection.⁴
- Safe for Periwound Area

REGENERATES ECM

Efficacy of HOCl Manufactured by Electrolysis (Independent Evaluation in Support of a Japanese Regulatory Application)²

	Microorganisms	HOCl (40ppm)
Gram positive	Staphylococcus aureus, MRSA Bacillus cereus Mycobacterium tuberculosis Others	(10sec) (3-5min) (2.5 min) (1-2.5min)
Gram negative	Salmonella Enteritidis, Vibrio Parahaemolyticus, Escherichia coli O157:H7, Campylobacter jejuni, Pseudomonas aeruginosa	(10sec)
Virus	Norovirus, Influenzavirus, Enterovirus, Herpesvirus	(10sec)
Fungi	Candida albicans, Aspergillus niger, Penicillium cyclopium	(5min)

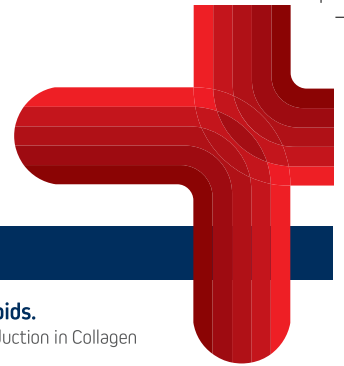
Study 1: Open-Label Study² - Open-label, single-arm study over 7 days Results - HOCl rapidly reduces pruritus in mild-to-moderate atopic dermatitis (AD)³



Day 1
50% reported improvement in itching



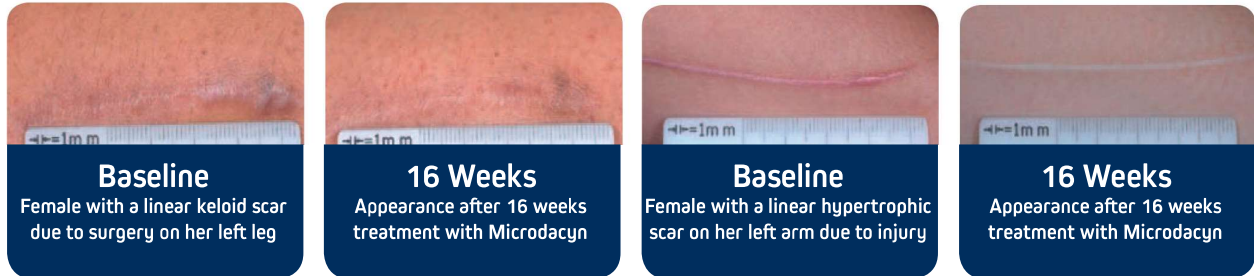
Day 3
85% reported improvement in itching



Microdacyn Hydrogel – Scar Management

Microdacyn Hydrogel Reduces Pri- Peri- Post Procedural Scars Including Hypertrophic and Keloids.

Hydrogel with Silicon Increases Hydration of Stratum Corneum and Thereby Facilitates Regulation of Fibroblast Production and Reduction in Collagen Production. It Results into Softer and Flatter Scar and Allows Skin to “Breathe”.



Photographic Results of Microdacyn Hydrogel Treatment

(*The International Clinical Recommendations on Scar Management (written for the International Advisory Panel on Scar Management) Recommend Topical Silicone Gel Treatment as the First-Line Therapy with Intralesional Corticosteroids Being the Secondary Recommendation Based on a Systematic Review of the Clinical Literature Currently Available.)⁵

Microdacyn – 100% Safe

Wound cleansers like Povidine Iodine, Hydrogen Peroxide, PHMB have high toxicity index- They have deleterious effect to granulating tissue. Microdacyn is Non Toxic / Non Cytotoxic wound cleanser with safety levels of saline, so can be used in Infants.

Due to the unique non-cytotoxic action used by super-oxidised solutions, Microdacyn is one of the only antimicrobial solution technologies indicated for even the most delicate human anatomy including; cartilage, CNS tissue and the peritoneum. This makes Microdacyn an ideal surgical irrigation as well as topical technology.⁶

Treatment	Cleaning Debridment	Infection Control	Granulation	Epithelization
Microdacyn	✓	✓	✓	✓
Povidine Iodine	✓	✓		
Hydrogen Peroxide	✓	✓		
PHMB		✓		
Topical Antibiotic		✓		

Tolerance Criteria	Microdacyn	OCT	PHMB	PVP-I
Peritoneal Lavage	Yes	X	X	X
Application to CNS Tissue	Yes	X	X	Toxic
Application to Cartilage	Yes	X	Only <0.005%	Yes

Microdacyn = 0.004% HOCl Super-oxidised solution
OCT = Octenidine dihydrochloride
PHMB = Polyhexanide
PVP-I - Povidone-iodine

Microdacyn – Indications

WOUND TYPE

- ACUTE WOUNDS
- CHRONIC WOUNDS
- BURNS (1ST & 2ND DEGREE)
- SURGICAL WOUNDS
- PRESSURE ULCERS & VENOUS ULCERS
- DIABETIC FOOT ULCERS
- TUNNEL WOUNDS & ONCOLOGICAL WOUNDS
- SURGICAL SITE INFECTIONS
- ISCHEMIC WOUNDS
- INTERNAL IRRIGATIONS

Suitable for all Ages & Wound Types



DAY-1



DAY-3

BURN CARE

- QUICK ODOR REDUCTION
- COOLS THE BURN & SOOTHES PAIN
- NON-IRRITATING & NON STAINING
- HELPS PREVENT CONTAMINATION
- REDUCES WOUND ADHESION
- CAN BE USED ON RECEPTOR & DONOR SITE
- COMPATIBLE WITH SKIN SUBSTITUTES, GRAFTS, MESHES
- COMPATIBLE WITH ENZYMATIC DEBRIDERS & GROWTH FACTORS



How to Use

Microdacyn Wound Care Solution

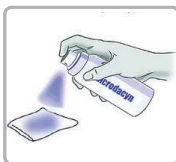
Application: To Clean, Debrid, Irrigate & Protect

Usage : The anti-microbial solution is used for cleaning the wounds and preparing the wound bed. For normal wounds, irrigate the wound by applying Microdacyn Wound Care Solution directly onto/into the wound to the point of saturation.

For Necrotic and Sloughy Tissue : Wound should be soaked for 10-15 minutes with 200 to 300 ml of solution before surgical debridement. This help in softening of the hard surface and for easy and painless surgical debridement. Minimum 3 dressings per day are recommended.



Generously apply Microdacyn Wound Care Solution Into Wounded Area.
Additional soaking time ensures stubborn easy removal of slough/debris



Microdacyn Wound Care Hydrogel

Application: To Disinfect, Hydrate, Heal & Manage Scars

Usage : After surgical debridement, Cover & Dress a wound with Microdacyn hydrogel. Ensure layer of 3 to 5 mm thickness is developed. Suitable to be combined with all usual secondary wound dressings.

For Burns : Microdacyn Hydrogel should be applied as often as required to keep the burn wound sufficiently hydrated and protected from infection. Microdacyn Hydrogel establishes the optimum healing environment without irritation stinging & staining.



Spray Microdacyn Hydrogel Directly on the Wounded Surface and Pack the Wound with the Secondary Dressing.
This May be left for upto 3 days.



Microdacyn® can be used for instillation with NPWT (Negative Pressure Wound Therapy).



1. Take NPWT Bottle out of Packaging.
2. Release Carrying Handle and Pierce Bottle.
3. Hang the Bottle on Carrying Handle on the Instillation Device.

Product Composition
Microdacyn Wound Care Solution

Super Oxidized Solution with Neutral pH Containing:

Hypochlorous Acid (HOCl)	0.003%
Sodium Hypochlorite (NaOCl)	0.004%
Electrolyzed Water	99.97%

Product Composition
Microdacyn Wound Care Hydrogel

Super Oxidized Solution with Neutral pH Containing:

Hypochlorous Acid (HOCl)	0.008%
Sodium Hypochlorite (NaOCl)	0.002%
Electrolyzed Water	97.64%

****TIP-** Pack the wound with normal dressing by slightly soaking the dressing in MICRODACYN solution. This will help in easy removal of dressing in next dressing change



ORDERING INFORMATION

Product Name	Product Description	Case Size	Product Code	Unit Price(Rs.)
Microdacyn Wound Care	100ml Spray	108	7502273991038	499.00
Microdacyn Wound Care	500ml Spray	24	7502273991052	1,824.00
Microdacyn Wound Care	1000ml Spray	6	7502273991069	3,312.00
Microdacyn Hydrogel	60gm Pump	140	7502273991045	754.00
Microdacyn Hydrogel	120gm Pump	12	7502273992400	1,200.00
Microdacyn Hydrogel	400gm Jar	1	7502273994695	3,500.00
Microdacyn NPWT	500ml	1	7502273996040	2,086.00

References

- 1) Jones, E. M., Cochrane, C. A., & Percival, S. L. (2015). The effect of pH on the extracellular matrix and biofilms. *Advances in wound care*, 4(7), 431-439. 2) n.d. Application for Inclusion in the 2021 WHO Essential Medicines List Hypochlorous Acid (HOCl). [ebook] Japan.3) Draelos Z, Cash K. Evaluation of a gel formulation of hypochlorous acid and sodium hypochlorite to reduce pruritus in mild to moderate atopic dermatitis. Poster presented at: The Winter Clinical Dermatology Conference. January 14-19, 2012; Maui, HI.4) Bongiovanni, C.M., 2014. Effects of hypochlorous acid solutions on venous leg ulcers (VLU): experience with 1249 VLUs in 897 patients. *Journal of the American College of Clinical Wound Specialists*, 6(3), pp.32-37. 5) Gold, M. H., Andriessen, A., Bhatia, A. C., Bitter Jr, P., Chilukuri, S., Cohen, J. L., & Robb, C. W. (2020). Topical stabilized hypochlorous acid: The future gold standard for wound care and scar management in dermatologic and plastic surgery procedures. *Journal of cosmetic dermatology*, 19(2), 270-277. 6) Johani, K., Malone, M., Jensen, S. O., Dickson, H. G., Gosbell, I. B., Hu, H., ... & Vickery, K. (2018). Evaluation of short exposure times of antimicrobial wound solutions against microbial biofilms: from in vitro to in vivo. *Journal of Antimicrobial Chemotherapy*, 73(2), 494-502.