

Hibiwash® bonded to skin

4% w/v CUTANEOUS SOLUTION Chlorhexidine gluconate 40 mg/ml

250ml **e**

207110

....

Mölnlycke

HIBIWASH® CHLORHEXIDINE GLUCONATE

Hibiwash[®] is an antimicrobial full-body wash that **bonds to and cares for skin, whilst killing microorganisms.**

It is your **trusted partner** in helping prevent infections, promote skin's integrity and save time before performing surgical procedures.

With 4% Chlorhexidine Gluconate



SURGICAL SITE INFECTIONS AN ONGOING PROBLEM

Managing surgical site infections (SSIs) and hospital acquired infections (HAIs) is a real and growing problem, with serious implications.

An SSI is an infection that occurs after an invasive operation in the location where the surgery took place. It is the second most common type of HAI in the EU.¹ Studies have shown that the patient's skin is responsible for most of the pathogens that cause SSIs.² Up to 33 % of the population naturally carry Staphylococcus aureus on their skin. Staphylococcus aureus can also be found on the surgeons' hands.³



11.8% avg. of surgeries in low and middle income countries will result in a SSI⁴



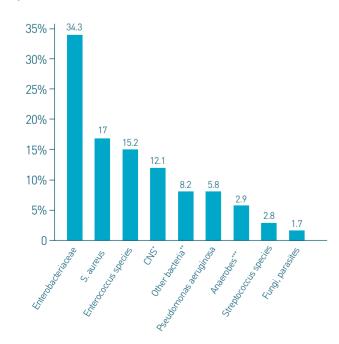
7% of patients in high income countries will have HAI⁵

10% of lower income countries will

have a HAI⁵

PROPORTION OF SSI WITH ORGANISM DATA (%)

Inpatient and readmission cases (n=9,858)6



SURGICAL SITE INFECTIONS...

...RESULT IN AN ESTIMATED **19.1 BILLION EUROS**⁴

IN ADDITIONAL COSTS

...INCREASE THE LENGTH OF STAY BY

6.5 DAYS IN THE EU⁴

...HAVE A NEGATIVE IMPACT

ON PATIENT QUALITY OF LIFE AND ON GLOBAL HEALTHCARE SYSTEMS

...TRIGGER FURTHER DEPENDENCE OF

ANTIBIOTICS,

POTENTIALLY LEADING TO AN INCREASE IN ANTIBIOTIC RESISTANCE

* Hibiwash[®] is not proven to be effective against S. haemolyticus.
 ** Mostly comprising unspecified diphtheroids, 'other' grampositive organisms and bacilli. Hibiwash[®] is not proven to be effective against Stenotrophomonasmaltophilia.
 *** Hibiwash[®] is not proven to be effective against Cdiff spores.

A RISK TO ELIMINATE

With the increased focus on infection prevention globally, now is more important than ever to minimise the risks of healthcare associated infections, such as SSIs.

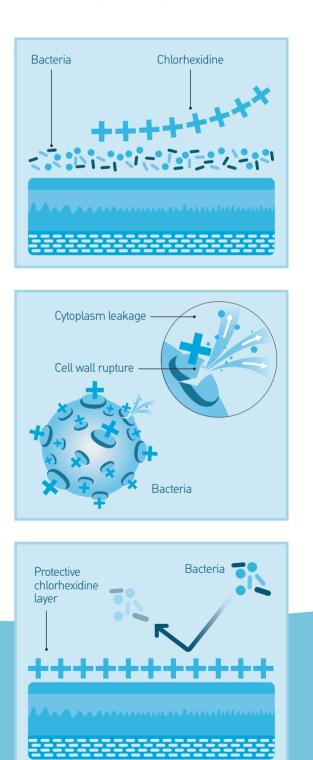
DID YOU KNOW:

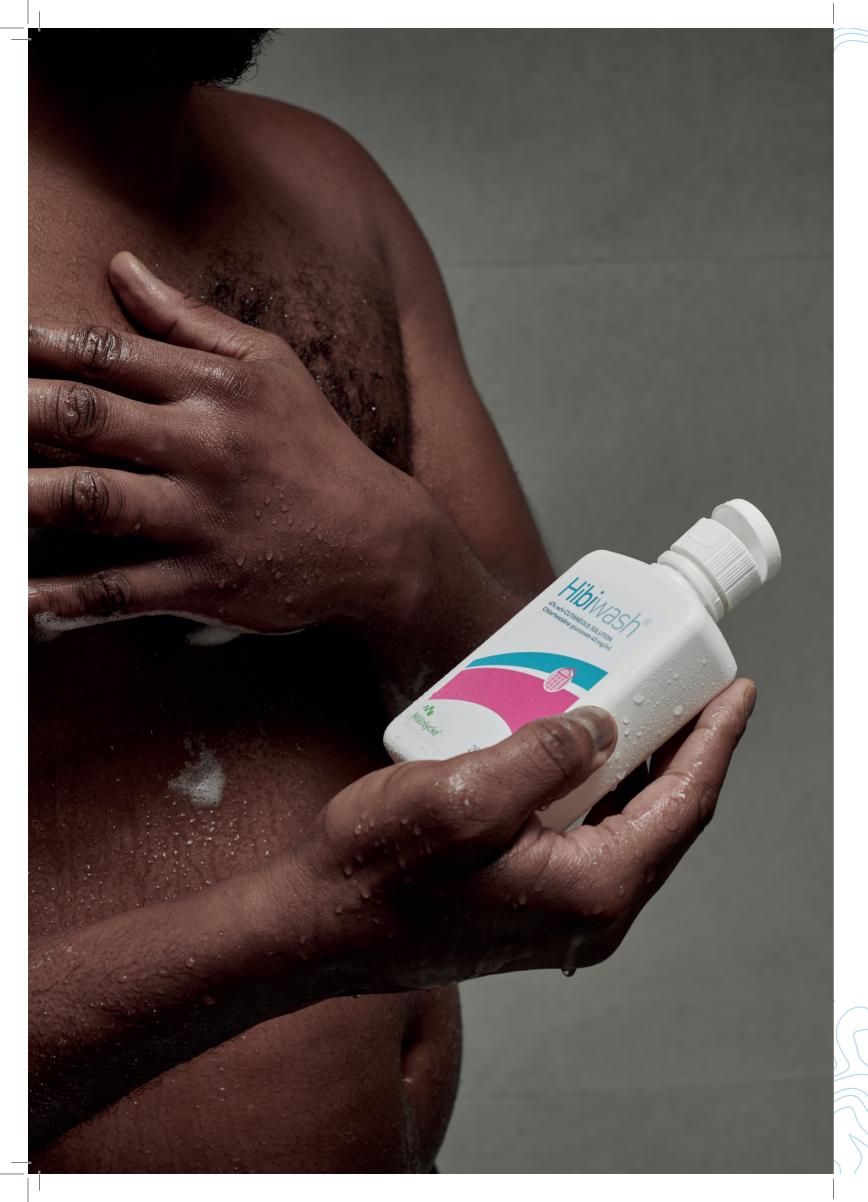
...that Hibiwash[®] can be used for effective prevention against the **most common causes** of SSIs?



CHLORHEXIDINE GLUCONATE - HOW DOES IT WORK?

CHG binds to the cell wall of the bacteria causing it to rupture, leading to cell death. CHG molecules bind to the proteins in human tissues and provide a layer of prolonged protection.⁷





HIBIWASH®

AN EFFECTIVE ANTIMICROBIAL SKIN **CLEANSER PROTECTING THE PATIENT** IN THE HOSPITAL AND AT HOME



Ideal for whole body washing for preadmission patients

- Post-operative infections reduced to 8% from 17.5% in a study of 341 patients using Chlorhexidine whole body washing.⁸
- 20-fold reduction in skin bacteria count after showering three times with 4% Chlorhexidine in a randomised controlled trial.⁹
- Hibiwash[®] reduces skin flora by 94% with the first whole body wash and then by a further 77% with the second.¹⁰



Fast acting with a long lasting effect

Hibiwash[®] is not absorbed into the skin but binds to it, forming a protective layer even after the rinse off that efficiently kills microorganisms, for hours after application.¹⁴ Furthermore, unlike povidone iodine, Hibiwash[®] is not inactivated by bodily fluids.¹⁶

Efficacy information

PhEur 5.1.11 bactericidal and yeasticidal

-----Please speak to your Mölnlycke contact person for information on product codes, on packaging and product accessories in your

local market.

At Mölnlycke, we are committed to becoming a more sustainable business.

Hibiwash[®] is part of our sustainability development. Our primary packaging (bottles) and transport shippers (cardboard) are all made of recyclable material.



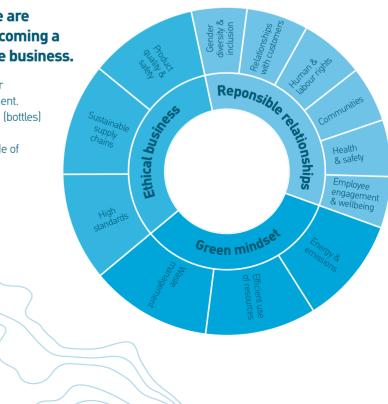
Effective in a wide range of microorganisms

Hibiwash[®] is effective against a wide range of microbes including Gram positive and Gram negative bacteria, yeast, fungi and viruses, and reduces bacterial load more efficiently than povidone iodine.^{11,12} In combination with a nasal antibiotic Hibiwash® was shown to significantly decrease the risk for hospital associated S. aureus infections by up to 60%.¹³



Tough against microbes and gentle to the skin^{17,18}

Hibiwash[®] is dermatologically tested, it has no colour, no fragrance, no traces of soya oil and contains emollients. It has been shown to be gentle on the skin even when used frequently. This is beneficial since repeated application of Hibiwash[®] has been shown to increase the antimicrobial efficacy.¹⁹



5

PROTECTING **YOUR PATIENTS**

SKIN - THE SOURCE OF THE PROBLEM

Studies have shown that the patient's skin is responsible for most of the pathogens that cause SSIs⁵. Up to 33% of the population naturally carry Staphylococcus aureus on their skin.^{2,3}

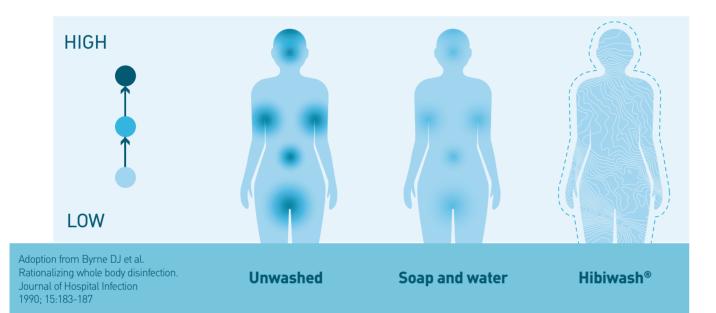
WHAT IF THERE WAS AN EASY WAY TO **ENSURE A CLEAN SURGERY?**

There is! It's Hibiwash®

With easy to follow instruction Hibiwash® can be used for pre-operative and post-operative whole body washing to reduce the chance of SSIs.



MICROORGANISMS RESIDUE LEVELS AFTER WASHING





have been used in hospitals for many decades



SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE MEDICINAL PRODUCT

2 OUAL ITATIVE AND OUANTITATIVE COMPOSITION Chlorhexidine Gluconate 4% w/v (incorporated as Chlorhexidine Gluconate Solution)

For the full list of excinients, see section 6.1 3. PHARMACEUTICAL FORM

Liquid 4 CLINICAL PARTICULARS

4.1 Therapeutic indications

Hibiwash is an antimicrobial preparation for pre-operative surgical hand disinfection, antiseptic hand washing on the ward and pre-operative and post-operative skin antisepsis for patients undergoing elective surgery.

4.2 Posology and method of administration

For external use only. Pre-operative surgical hand disinfection We the hands and forearms, apply 5 ml of Hibiwash and wash for one minute cleaning the fingernails with a brush or scraper. Rinse, apply a further 5 ml of Hibiwash and continue washing for a further 2 minutes. Rinse thoroughly and dry. Aniseptic handwash on the ward Wet the hands and forearms, apply 5 ml of Hibiwash and wash for 1 minute. Rinse thoroughly and dry.

Pre-operative skin anticepsis for the patient The patient washes his whole body in the bath or shower on at least 2 occasions, usually the day before and the day of operation

as follows: The day before operation the patient washes with 25 ml of Hibiwash beginning with the face and working downwards paying particular attention to areas around the nose, axillae, umbilicus, groin and perineum. The body is then rinsed and the wash repeated with a further 25 ml, this time including the hair. Finally the patient rinses his entire body thoroughly and dries or a clean towel. This procedure should be repeated the following day. Patients confined to bed can be washed with Hibiwash using a standard bed-bath technique. Conventional disinfection of the operation site will then be performed when the patient is in theatre.

Post-operative skin antisepsis for the patients

The patient washes his whole body, excluding the operation wound, in the bath or shower usually on the third day after operation using the procedure described above. Children and elderly patients There are no special dosage recommendations for either elderly patients or children. The normal adult dose is appropriate unless

. recommended by the physician. 4.3 Contraindications

Known hypersensitivity to the product or any of its components especially in those with a history of possible chlorhexidine-related ergic reactions (see sections 4.4 and 4.8).

4.4 Special warnings and precautions for use

0.0

Hibiwash contains chlorhexidine. Chlorhexidine is known to induce hypersensitivity, including generalised allergic reactions and anaphylactic shock. The prevalence of chlorhexidine hypersensitivity is not known, but available literature suggests this is likely to be very rare. Hibiwash should not be administer to anyone with a potential history of an allergic reaction to a chlorhexidine-containing compound (see sections 4.3 and 4.8). The use of chlorhexidine solutions, both alcohol based and aqueous, for skin antisepsis prior to invasive procedures has been associated with chemical burns in neonates. Based on available case reports and the published literature, this risk appears to be higher in preterm infants, especially those born before 32 weeks of gestation and within the first 2 weeks of life. Remove any soaked materials, drapes or gowns before proceeding with the intervention. Do not use excessive quantities and do not allow the solution to pool in skin folds or under the patient or drip on sheets or other material in direct contact with the patient. Where occlusive dressings are to be applied to areas previously exposed to Hibiwash, care must be taken to ensure no excess product is present prior to application of the dressing. Hibiwash is flammable. Do not use with electrocautery

sopropyl alcohol may very rarely cause skin irritations such as erythema, dryness, contact allergies, burning sensation. For external use only. Avoid contact with the brain, meninges and middle ear. In patients with head or spinal injuries or perforated ear drum, the benefit of use in pre- operative preparation should be evaluated against the risk of contact. Hibiwash must not come into contact with the eye. Serious cases of persistent corneal injury, potentially requiring corneal transplant, were reported following accidental ocular exposure to chlorhexidine containir medicinal products despite taking eye protective measures due to migration of solution beyond the intended surgical preparation area. Extreme care must be taken during application to ensure that does not migrate beyond its intended application site into the eyes. Particular care should be taken in anaesthetised patients, who are unable to immediately report ocular exposur If Hibiwash comes into contact with the eyes, wash out promptly and thoroughly with water. An ophthalmologist's advice should be sought. Do not inject or use in body cavities. 4.5 Interaction with other medicinal products and other forms

of interaction See section 6.2. 4.6 Fertility, pregnancy and lactation

lactation. Therefore no special precautions are recor 4.7 Effects on ability to drive and use machines

4.8 Undesirable effects

Skin and subcutaneous tissue disorders: Frequency not known: Allergic skin reactions such as dermatitis pruritus, erythema, eczema, rash, urticaria, skin irritation, and blisters.

Immune system disorders: Eve disorder

requency not known: Corneal erosion. epithelium defect/cornea injury, significant permanent visual impairment* Injury, poisoning and procedural complications requency not known: Chemical burns in neonates Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions

ellow Card Scheme Card in the Google Play or Apple App Store

4.9 Overdose

This has not been reported

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

code: D08AC02 Mode of action – chlorhexidine has a wide range of antimicrobia activity. Chlorhexidine is effective against a wide range of antimicrob gram-negative and gram- positive vegetative bacteria, yeasts, ermatophyte fungi and lipophilic viruses. It is inactive aga bacterial spores except at elevated temperatures. Because of its cationic nature, chlorhexidine binds strongly to skin, mucosa and other tissues and is thus very poorly absorbed. No detectable blood levels have been found in man following oral use and

Help us to reduce the **11 in 100 chance** of a surgical site infection.²⁰

Together let's move towards zero.

FIND OUT MORE AT WWW.MOLNLYCKE.CO.UK

procedures or other ignition sources until dry.

There is no evidence of any adverse effects on the foetus arising from the use of HibiWash as a handwash during pregnancy and

None have been reported or are know

ry Common (7 1/10): Common (7 1/100. < 1/10): Uncommon (¬ 1/1,000,< 1/100); Rare (¬ 1/10,000, < 1/1,000); Very rare (< 1/10.000): not known (cannot be estimated from the available

Frequency not known: Hypersensitivity including anaphylactic shock (see sections 4.3 and 4.4).

Website: www.mhra.gov.uk/vellowcard or search for MHRA Yellow

Accidental ingestion: chlorhexidine taken orally is poorly ibsorbed. Treat with gastric lavage using milk, raw egg, gelatin or mild soap. Employ supportive measures as appropriate

Pharmacotherapeutic group: antiseptics and disinfectants, ATC

percutaneous absorption, if it occurs at all, is insignificant.

5.2 Pharmacokinetic properties

Retention and uptake kinetics and factors influencing the pharmacokinetics.Chlorhexidine appears to be very poorly absorbed. No blood levels were detected during a 3-week simulated clinical use of Hibiwash

5.3 Preclinical safety data

Chlorhexidine is a drug on which extensive clinical experience has been obtained. All relevant information for the prescriber is provided elsewhere in the Summary of Product Characteristics

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients Poloxamer 237 Isopropyl alcohol Cocamidopropylamine oxide Glycerol Macrogol-7 Glycerol Cocoate Gluconolactone Purified water Sodium hydroxide (for pH-adjustment)

6.2 Incompatibilities

Chlorhexidine is incompatible with soap and other anionic agents Hypochlorite bleaches may cause brown stains to develop in fabrics, which have previously been in contact with preparations containing chlorhexidine.

6.3 Shelf life

6.4 Special precautions for storage

Do not store above 25 °C

6.5 Nature and contents of container

HDPE bottles containing 125 ml, 250 ml, 500 ml and 5 litres 6.6 Special precautions for disposal and other handling

See section 4.4.

7. MARKETING AUTHORISATION HOLDER Regent Medical Ltd Medlock Street Oldham

Lancashire OL1 3HS United Kinadom

8. MARKETING AUTHORISATION NUMBER(S)

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE **AUTHORISATION** 25/10/2023

10. DATE OF REVISION OF THE TEXT

*Cases of severe corneal erosion and permanent significant visual impairment due to inadvertent ocular exposure have been reported post-marketing, leading to some patients requiring corneal transplant (see section 4.4).

References:

- 1. Global Guidelines for the Prevention of Surgical Site Infection. WHO. 2018.
- Brote L. 1976. wound infections in clean and potentially contaminated surgery. Acta Chir Scand. 142: 191-200.
 Gorwitz RJ et al. Changes in the prevalence of nasal colonization with Staphylococcus aureus in the United States
- 2001-2004. The Journal of Infectious Diseases 2008;197:1226-34. 4. https://www.ncbi.nlm.nih.gov/books/NBK536426/
- 5. https://www.who.int/gpsc/country_work/gpsc_ccisc_fact_sheet_en.pdf
- European Centre for Disease Prevention and Control. Annual Epidemiological Report 2016 Surgical site infections. [Internet]. Stockholm: ECDC; 2016. Available from: http://ecdc.europa.eu/en/healthtopics/ Healthcare-associated_
- 7. https://www.chlorhexidinefacts.com/mechanism-of-action.html
- Brandberg Å et al. Postoperative Wound Infections in Vascular Surgery: Effect of Preoperative Whole Body Disinfection by Shower-bath with Chlorhexidine Soap. Skin Microbiology: Relevance to Clinical Infection 1979; Chapter 13: 98-102.
 Byrne DJ et al. Effects of whole body disinfection on skin flora in patients undergoing elective surgery. Journal of
- Hospital Infection 1991;17:212-272
- 10.Byrne DJ et al. Rationalizing whole body disinfection. Journal of Hospital Infection 1990; 15:183-187 11.Menon, V. Chapter 22 Chlorhexidine. Block's Disinfection, Sterilization and Preservation. Ed. Gerald McDonnell and
- 12.Garibaldi RA. Prevention of intraoperative wound contamination with chlorhexidine shower and scrub. Journal of Hospital Infection 1988; 11: 5-9.
- 13. Bode LGM et al. Preventing Surgical Site Infections in Nasal Carriers of Staphylococcus aureus. The New England Journal of Medicine 2010; 362(1): 9-17.
- 14. Mölnlycke Internal Report REPR1037.
- 15. Tanner J et al. A fresh look at preoperative body washing. 2012; 13: 11-15.
 16. Sheikh W. Comparative Antibacterial Efficacy of HiBiClens® and Betadine® in the Presence of Pus Derived from Human Wounds. Current Therapeutic Research 1986;40(6): 1096-1102.
- 17. Mölnlycke Internal Report REPR1130
- 19. Faoagali et al. Comparison of the immediate, residual, and cumulative antibacterial effects of Novaderm R, Novascrub
- R, Betadine Surgical Scrub, Hibiclens and liquid soap. American Journal of Infection Control 2 20.Gillespie B.M. 2021. Worldwide incidence of surgical site infections in general surgical patients: A systematic review and meta-analysis of 488,594 patients. International Journal of Surgery, 95, p.106136.



FIND OUT MORE AT WWW.MOLNLYCKE.CO.UK

MARKETING AUTHORISATION NUMBER(S) H0IM005143UK