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2% Chlorahexadine Gluconate Skin Antisepsis

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REDUCE INFECTION RISK





CHLORHEXIDINE GLUCONATE 2% w/v IMPREGNATED PADS

Address BSI and SSI risk factors as part of the patient bathing process.



THE THREAT OF HEALTHCARE-**ACQUIRED INFECTIONS**

Interventions designed to reduce Hospital-Acquired Infections (HAIs) including those from Multiple Drug Resistant Organisms (MDROs) are vital to reduce risk from morbidity and mortality.

The European Centre for Disease Prevention and Control (ECDC) estimates that on any given day, about 80,000 patients, i.e. one in 18 patients, in European hospitals have at least one healthcare-associated infection.¹ Of particular significance are bacteraemia, a leading cause of HAIs. Patients with bacteraemia have nearly twice the mortality rate, significantly longer hospital stays, and significantly higher median hospital costs.²

RISK FACTORS FOR MRSA HAI COLONIZATION²

- Severe underlying illness or comorbid conditions
- Prolonged hospital stay
- Exposure to broad-spectrum antimicrobials
- Presence of foreign bodies such as central venous catheters
- Frequent contact with the healthcare system or healthcare personnel

RATES OF HEALTHCARE-ACQUIRED INFECTIONS IN THE U.K.

15% 66% 17% Methicillin-sensitive *Escherichia coli* (E. coli) Bloodstream Surgical Site Infection (SSI)³ Staphylococcus aureus bacteraemia⁴ Infections (BSI) (MSSA) bacteraemia⁴

REFERENCES: 1. European Centre for Disease Prevention and Control, Press Release: Each day, one in 18 patients in European hospitals has a healthcare associated infection: ECDC estimates, Stockholm, 4 July, 2013. 2. Calfee DP, et al., Strategies to Prevent Methicillin-Resistant Staphylococcus aureus Tran: and Infection in Acute Care Hospitals: 2014 Update, Infection Control and Hospital Epidemiology, 2015;37(7):772-96. 3. European Centre for Disease Pre-and Control. Point prevalence survey of healthcare-associated infections and antimicrobial use in European acute care hospitals. Stockholm: CCC, 2013. Health England Quarterly Epidemiological Commentary: Mandatory MRSA, MSSA and E. coli bacteraemia, and C. difficie infection data (up to April-June 2

PROFESSIONAL RECOMMENDATIONS

EPIC 3: IVAD 211

"Consider the use of daily cleansing with chlorhexidine in adult patients with a central venous catheter as a strategy to reduce catheter-related bloodstream infection." - CLASS B recommendation

THE IMPORTANCE OF A **MEDICINE LICENSE²**

Granted by the Medicines and Healthcare products Regulatory Agency (MHRA) only when:

- High standards of safety and quality are met during the whole development and manufacture of a medicine.
- Clinical outcomes, including multiphase studies about the medicine must be completed:
 - **Phase 3** information gathered from a large number of people (often several thousand) to see how well it works and how safe the medicine (formula) is.
 - **Phase 4** happens after a license has been granted and it involves studies to monitor the medicine on an ongoing basis to see if there are any unexpected side effects or if the medicine causes problems in certain categories of people.

TRUST THE LICENSED PRODUCT

Chlorhexidine Gluconate 2% w/v Impregnated Pads is a licensed, medicinal product for general skin antisepsis and skin antisepsis as part of an advanced preoperative cleansing regimen.

- Granted marketing authorisation July 2010.
- Licence number PL 27821/0004.
- Proven to reduce resistant organisms including MRSA, VRE, *Acinetobacter* baumannii, Pseudomonas aeruginosa and more on your patients' skin.³

Be sure you're getting the most from your product with approved claims that deliver real infection prevention outcomes.

REFERENCES: 1. Loveday, H.P. et al., epic 3: National Evidence-Based Guidelines for Preventing Healthcare-Associated Infections in NHS Hospitals in England. Journal of Hospital Infection. 2014; 8651:59. 2. Medicines information – licensing. NHS Choices, Oct 2012. 3. Time Kill and MIC Testing conducted by an independent laboratory, data on file. 4. Mangram AJ, et al., Guideline for prevention of surgical site infection, 1999. Centers for Diverse Cantal de Departise. Evidence Infection Commission Commission Linear Linear Communication Commission Commission



2% CHLORHEXIDINE GLUCONATE SOLUTION IN A SOFT, DISPOSABLE WASHCLOTH

Sage Chlorhexidine Gluconate 2% w/v Impregnated Pad addresses pathogens on the patients' skin—a known risk factor for both BSIs and SSIs.⁴ Sage's innovative rinse-free, alcohol-free formula is designed for daily antiseptic bathing and early preoperative prep. It stays on the skin for up to 6 hours of maximum persistence after application. The cloth consistently delivers a uniform dose of CHG, unlike other soaps and solutions.

EFFECTIVE AGAINST PREVALENT GRAM-NEGATIVE PATHOGENS^{3,*}

Acinetobacter baumannii	~
Bacteroides fragilis	v
Enterobacter aerogenes	v
Escherichia coli	v
Klebsiella pneumoniae	v
Proteus mirabilis	~
Pseudomonas aeruginosa	v
Serratia marcescens	¥

* In vitro testino

PROVEN RESULTS:

EFFECT OF DAILY CHLORHEXIDINE BATHING ON HOSPITAL-ACQUIRED INFECTION¹

PUBLISHED IN THE NEW ENGLAND JOURNAL OF MEDICINE

STUDY METHODOLOGY:

- 7,727 patients
- 6 hospitals (9 intensive care and bone marrow transplantation units)
- Conducted for 18 months
- Random daily bathing assignment by unit for 6 months



STUDY TAKE-AWAY:

The authors recommend the use of 2% CHG washcloths for all patients in an ICU as an effective means of source control to reduce MDRO transmission and BSI.

EVIDENCE-BASED SOLUTION:

TARGETED VERSUS UNIVERSAL DECOLONIZATION TO PREVENT ICU INFECTION¹

PUBLISHED IN THE NEW ENGLAND JOURNAL OF MEDICINE

STUDY METHODOLOGY:

- Multi-center trial
- 74,256 patients
- 43 hospitals
- **74** Intensive Care Units

CLUSTER-RANDOMISED TRIAL

Hospitals were randomly assigned one of three strategies:

- Group 1 MRSA screening and isolation
- Group 2 targeted decolonization
- Group 3 universal decolonization

STUDY TAKE-AWAY:

Universal decolonization was more effective than targeted decolonization or screening and isolation in reducing rates of MSRA clinical isolates and bloodstream infection from any pathogen.

COST SAVINGS OF UNIVERSAL DECOLONIZATION TO PREVENT INTENSIVE CARE UNIT INFECTION: IMPLICATIONS OF THE REDUCE MRSA TRIAL²

PUBLISHED IN THE JOURNAL OF INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY

For a hospital with 1,000 annual admissions per year, we estimate that universal decolonization would prevent 9 additional BSIs and potentially save approximately \$171,000 USD annually compared with screening and isolation. The majority of the estimated savings (\$155,000 USD) are associated with expected reductions in BSIs.



GROUP 1: Screening and Isolation

GROUP 2: Targeted Decolonization



21% BSI reduction for any pathogen

GROUP 3: Universal Decolonization



44.% BSI reduction for any pathogen

\$171,000 Saved in treatment costs

REFERENCES: 1. Huang SS, et al., Targeted versus Universal Decolonization to Prevent ICU Infection, N Engl J Med 2013; 368:2255-65. 2. Huang SS, et al., Cost savings of universal decolonization to prevent intensive care unit infection: implications of the REDUCE MRSA trial. Infect Control Hosp Epidemiol. 2014 Oct;35 Suppl 3:523-31.

PROVEN RESULTS:

AGAINST MRSA, VRE & ACINETOBACTER

PRESENTED AT SCCM CRITICAL CARE CONFERENCE

■ In a 9-year UK study, introduction of Antiseptic Body Cleansing Washcloths in 2007 has been associated with sustained reduction and near elimination of MRSA bacteraemia and additional reduction in MRSA acquisitions.¹



PREOPERATIVE SHOWER REVISITED:

CAN HIGH TOPICAL ANTISEPTIC LEVELS BE ACHIEVED ON THE SKIN SURFACE BEFORE SURGICAL ADMISSION?²

PUBLISHED IN THE JOURNAL OF AMERICAN COLLEGE OF SURGERY

Provides statistically significant, higher CHG concentrations on skin surfaces vs CHG soap

2% CHG Washcloths delivered significantly higher CHG skin concentrations, ranging from 90 to 364 times above MIC₉₀ for skin staphylococcal isolates.²



PAEDIATRIC PATIENTS BENEFIT FROM BATHING WITH CHLORHEXIDINE GLUCONATE 2% w/v IMPREGNATED PADS

DAILY CHLORHEXIDINE BATHING TO REDUCE **BACTERAEMIA IN CRITICALLY ILL CHILDREN:** A MULTICENTER, CLUSTER-RANDOMISED, **CROSSOVER TRIAL¹**

THE LANCET

METHODS:	6.
 Unmasked, cluster-randomised, two-period crossover trial. 	5.
Ten paediatric ICUs at 5 hospitals	4.
in the USA.	3.
Admitted patients older than 2 months were	2.
randomly assigned either standard bathing	1.
practices or a daily bathing routine using a cloth	0.
impregnated with 2 /0 Crid for a 0-month period.	

Units switched to the alternative bathing method for a second 6-month period.

CHLORHEXIDINE BATHING IN A TERTIARY CARE NEONATAL INTENSIVE CARE UNIT: IMPACT ON CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTIONS²

INFECTION CONTROL AND HOSPITAL EPIDEMIOLOGY

METHODS:

- A secondary data analysis of the HAI surveillance database at Montreal Children's Hospital was performed.
- Use a retrospective cohort design that included all infants with a central venous catheter admitted to MCH NICU between April 1, 2009, and March 31, 2013.
- Infants with a CVC were bathed with mild soap until March 31, 2012 and with a 2% CHG-impregnated cloth starting April 1, 2012.

REFERENCES: 1. Wyncoll D, Shankar-Hari M, Beale R, Daily Bathing with 2% CHG Washcloths Leads to Almost Total Elimination of MRSA Bacteraemia. Poster presented at SCCM Critical Care Conference, 2011. 2. Edmiston CE, et al., Preoperative Shower Revisited: Can High Topical Antiseptic Levels Be Achieved on the Skin Surface Before Surgical Admission?, J Am Coll Surg 2008;207:233-39.

REFERENCES: 1. Millstone AM, et al., Daily chlorhexidine bathing to reduce bacteraemia in critically ill children: a multicentre, cluster-randomised, crossover trial, The Lancet;381(9872):1099–1106. 2. Quach C, et al., Chlorhexidine Bathing in a Tertiary Care Neonatal Intensive Care Unit: Impact on Central Line-Associated Bloodstream Infections, Infect Control Hosp Epidemiol 2014;35(2):158-63.





BATHING WITH CHLORHEXIDINE GLUCONATE 2% w/v IMPREGNATED PADS REDUCE SSI RISK

CHLORHEXIDINE REDUCES INFECTIONS IN KNEE ARTHOPLASTY¹

JOURNAL OF KNEE SURGERY

METHODS:

- Records were reviewed over a 3-year period (2007-2010) to identify deep incisional and periprosthetic infections.
- 478 patients used CHG cloths.
- 1,735 patients did not use CHG cloths.

RESULTS:

DECREASE in SSI (p=0.021)

PRE-ADMISSION CUTANEOUS CHLORHEXIDINE PREPARATION REDUCES SURGICAL SITE **INFECTIONS IN TOTAL HIP ARTHOPLASTY²**

JOURNAL OF ARTHOPLASTY

METHODS:

- Records of total hip arthoplasty patients were reviewed over a 3-year period (2007-2010) to determine the incidence of deep incisional and periprosthetic infections.
- 557 patients used CHG cloths.
- 1,901 patients did not use CHG cloths.

RESULTS:

The incidence of SSIs was significantly lower for patients using Chlorhexidine received only in-hospital perioperative skin preparation.



HCAI TECHNOLOGY INNOVATION PROGRAMME SHOWCASE HOSPITALS REPORT NUMBER 9 SAGE 2% CHLORHEXIDINE GLUCONATE CLOTH³

Sage 2% CHG cloths were used prior to caesarean section delivery (CSD) in seven NHS Showcase Hospitals for four months. The overall rate of Surgical Site Infections (SSIs) following CSD fell from 10.4% to 7.6% with use of the Sage 2% CHG cloths, a reduction in incidence of 27%.

Rates of infection with and without Chlorhexidine Gluconate 2% w/v Impregnated Pads 12.00% 10.00% 8.00% 6.00%

10.4%

DECREASE in the risk of leveloping an SSI 7.6%

Patient not washed with Patient washed with Sage 2% CHG cloth Sage 2% CHG cloth prior to surgery prior to surgery

CHLORHEXIDINE GLUCONATE



REFERENCES: 1. Johnson AJ, et al., Chlorhexidine Reduces Infections in Knee Arthroplasty, J Arthroplasty. 2013 Jun;26(3):213-8. 2. Kapadia BH, et al., Pre-admission cutaneous chlorhexidine preparation reduces surgical site infect 2013 Mar;28(3):490-3. 3. The Results: Using technology to help fight infection, Showcase Hospitals Technology Review report number 9 Sage 2% Chlorhexidine Gluconate (CHG) Cloth, NHS Department of Health, June 2012.

4.00%

2.00%

0.00%



Our skin-friendly CHG Impregnated Pads are easy to use and deliver a uniform dose of CHG to the skin. Fast-acting, broad-spectrum and alcohol-free, our 2% CHG stays on the skin to help prevent infection.

- Premoistened and ready to use right from the package. No additional supplies needed.
- 2% CHG solution requires no rinsing and stays on the skin for maximum antimicrobial persistence.
- Proven to rapidly reduce bacteria that can cause infection, including E. Coli, P. aeruginosa, *K. pneumoniae, K. oxytoca,* etc.¹ Provides a cumulative antiseptic effect with multiple applications.
- Easily enhances skin decolonization efforts for a wide range of immunocompromised patients.
- Helps reduce risk of transmitting pathogens from colonized patients to staff, other patients, visitors, and surrounding environment.
- Large, thick washcloths hold the maximum amount of CHG solution for consistent CHG coverage. Makes it easier to cleanse difficult-to-reach areas.

Decolonizes skin with 2% CHG

Heavyweight washcloth removes dirt & debris

Moisturises with Aloe & Glycerin