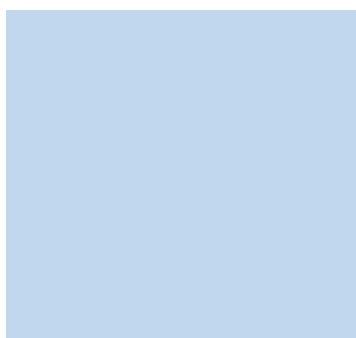




Private
Organizations
for Patient
Safety

Private Organizations for Patient Safety (POPS) is a non-profit organization that is dedicated to improving patient safety in the United States. POPS is a member of the International Patient Safety Association (IPSA).

GOJO Building Compliance in a Hands-On Profession



GOJO infection control solutions fight the spread of germs in healthcare

Globally, hundreds of millions of patients are affected annually by healthcare associated infections (HAIs), affecting over four million patients in Europe alone. This leads to significant mortality rates and an additional financial burden on our Healthcare Service¹. That's especially tragic because hand hygiene compliance is a simple measure that can dramatically reduce HAI incidence.



GOJO brings to market innovative infection control and skin care solutions, including hygienic hand sanitisers, hand soaps and moisturisers, technologically advanced delivery systems and informative compliance training tools. The GOJO hand hygiene regime can help improve compliance, promote staff productivity and job satisfaction and reduce health risks to patients, visitors and Healthcare Workers.

Infection Control and Skin Care Management from a Global Leader



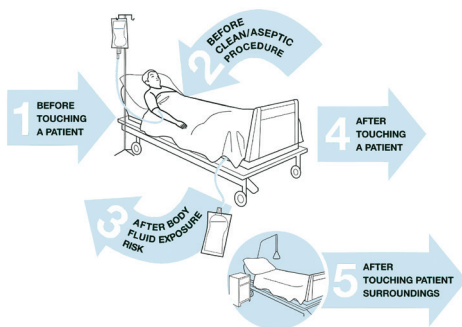
GOJO leads the healthcare industry in the development of innovative products, dispensing systems and educational programmes focused on improving hand hygiene compliance and heightened patient safety outcomes. PURELL® hygienic hand rubs and GOJO® hand soaps lead the fight against healthcare associated infections, and we continue to be at the forefront of research and development in infection control and skin care management.

GOJO works in collaboration with the WHO Supportive Patient Safety challenges through our membership of POPS (Private Organizations for Patient Safety).

Effective compliance starts with the PURELL® brand

Formulation matters. Effective hand hygiene starts with proven products that Healthcare Workers want to use. PURELL formulations contain a quick-acting antimicrobial agent to kill germs, and skin conditioners to leave hands feeling soft and refreshed, encouraging regular use. PURELL Advanced hygienic hand sanitisers give Healthcare Workers a practical alternative to hand washing in contact situations, enabling convenient hand decontamination before and after each patient contact to help support the reduction of Healthcare associated infections and their consequences.

5 Moments for Hand Hygiene



www.who.int/gpsc/5may/background/5moments/en/
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www.who.int/gpsc/copyright/en/

Sanitise

When an alcohol-based hand rub is available, it should be used as the first choice for hand hygiene (of non-soiled hands) since it enables healthcare workers to optimally comply with recommended indications at the point and moment of care.²

– World Health Organisation (WHO)

GOJO supports the guidelines recommended by the WHO and other health organisations that recommend the use of hygienic hand sanitisers as part of the My 5 Moments for Hand Hygiene multi model approach at the point of patient care.

As a member of POPS (Private Organizations for Patient Safety), GOJO continue to collaborate with industries and The WHO to help improve patient safety care.

PURELL Advanced Hygienic Hand Rub

A breakthrough entire hospital formulation with exceptional antimicrobial efficacy. A rub that feels great to use and is clinically proven to maintain skin health³. Conforms to: Bactericidal according to EN 1500 (hand sanitiser), EN 12791 (surgical rub), and virucidal according to EN 14476, fungicidal and yeasticidal according to EN 1275 and EN 13624, and tuberculocidal and mycobactericidal according to EN 14348.



CODE	DESCRIPTION	USE WITH
Refills		Dispensers
1303-03-EEU (MRB987)	PURELL Advanced Hygienic Hand Rub 700ml LTX-7™ Refill	1320-04
1903-02-EEU (MRB781)	PURELL Advanced Hygienic Hand Rub 1200ml LTX-12™ Refill	1920-04
8703-04-EEU (MRB790)	PURELL Advanced Hygienic Hand Rub 700ml ADX-7™ Refill	8720-06
8803-03-EEU (MRB791)	PURELL Advanced Hygienic Hand Rub 1200ml ADX-12™ Refill	8820-06
5476-02-EEU (MRB1139)	PURELL Advanced Hygienic Hand Rub 1200ml TFX™ Refill	2729-12-EEU00
2156-08-EEU00 (MRB073)	PURELL Advanced Hygienic Hand Rub 1000ml NXT® Refill	2039-06-EEU00
9657-12-EEU00 (MRB038)	PURELL Advanced Hygienic Hand Rub 800ml Refill	9037-12
Bottles		Accessories
9268-12-EEU00 (MRB1165)	PURELL Advanced Hygienic Hand Rub 500ml Pump Bottle	9500-12-EEU00
9263-12-EEU00 (MRB1149)	PURELL Advanced Hygienic Hand Rub 300ml Pump Bottle	9007-12, 9300-12-EEU00
9661-24-EEU00 (MRB1148)	PURELL Advanced Hygienic Hand Rub 100ml Bottle	N/A
9606-24-EEU00 (MRB063)	PURELL Advanced Hygienic Hand Rub 60ml PERSONAL™ Issue Spray Pump	9608-24, 9613-24
PURELL ES® Everywhere System		Accessories
1450-D8-EEU00 (MRB1061)	PURELL ES® Everywhere System – includes 1 x White Base & 1 x 450ml Refill	5840-08-WHT 5830-08-BLK 1245-08-WHT
6870-06-EEU00	PURELL ES® Everywhere System Refill 450ml – PURELL Advanced Hygienic Hand Rub	5840-08-WHT 5830-08-BLK 1245-08-WHT

SOLUTION

PURELL® Hand Sanitising Gel VF481™

PURELL Hand Sanitising Gel VF481 (AntiViral Formula) is ground breaking technology, offering broad spectrum viral efficacy specifically designed to meet the European antiviral norm EN 14476 while clinically proven to be mild on the skin, this product also has proven efficacy against non-enveloped viruses, such as those known to cause the winter vomiting illness (tested on humans and surrogates)**. Conforms with EN 12791 (3x3ml/90sec.) (3hr Sustained Effect), EN 13727, EN 1040, Fungicidal and yeasticidal according to EN 1275, mycobactericidal according to EN 14348, EN 1275 and EN 1500 in 30 seconds.

CODE	DESCRIPTION	USE WITH
Refills		Dispensers
5496-04-EEU00 (MRB492)	PURELL Hand Sanitising Gel VF481 1200ml TFX™ Refill	2729-12-EEU00
6196-03-EEU00 (MRB491)	PURELL Hand Sanitising Gel VF481 1200ml FMX™ Refill	5129-06-EEU00
Bottles		Accessories
9689-24-EEU00 (MRB489)	PURELL Hand Sanitising Gel VF481 60ml Flip Top Bottle	9608-24, 9613-24



2729-12-EEU00

PURELL Advanced Hygienic Hand Sanitising Foam

A breakthrough foam formulation, proven to help maintain skin health³. Enriched with skin conditioners that help maintain skin moisture and improve overall skin feel. Kills 99.99% of most common germs that may be harmful. Conforms to EN 1500 (Hygienic Hand Rub), EN 12791 (Surgical Hand Disinfection), Virucidal according to EN 14476, Bactericidal EN 1040, EN 13727, EN 1276 Yeasticidal, EN 1275, EN 1650, EN 13624, Fungicidal EN 1650. Refills made with GOJO SMART-FLEX™ Technology.

CODE	DESCRIPTION	USE WITH
Refills		Dispensers
1304-03-EEU (MRB782)	PURELL Advanced Hygienic Hand Sanitising Foam LTX-7™ 700ml Refill	1320-04
1904-02-EEU (MRB783)	PURELL Advanced Hygienic Hand Sanitising Foam LTX-12™ 1200ml Refill	1920-04
8704-04-EEU (MRB1142)	PURELL Advanced Hygienic Hand Sanitising Foam ADX-7™ 700ml Refill	8720-06
8804-03-EEU (MRB793)	PURELL Advanced Hygienic Hand Sanitising Foam ADX-12™ 1200ml Refill	8820-06
5396-02-EEU (MRB959)	PURELL Advanced Hygienic Hand Sanitising Foam TFX 1200ml Refill	2729-12-EEU00
5196-03-EEU (MRB507)	PURELL Advanced Hygienic Hand Sanitising Foam FMX 1200ml Refill	5129-06-EEU00
Bottles		Accessories
5796-04-EEU00 (MRB510)	PURELL Advanced Hygienic Hand Sanitising Foam 535ml Pump Bottle	5700-12-EFF
5696-24-EEU00 (MRB1077)	PURELL Advanced Hygienic Hand Sanitising Foam 45ml Pump Bottle	-



5796-04-EEU00

Use biocides safely. Always read the label and product information before use.

Mild but efficacious GOJO® soaps offer dependable germ-fighting protection

Wash

Hand washing is the single most important measure for preventing the transmission of germs. The frequency of hand washing in the healthcare environment can increase the risk of skin irritation. That's why GOJO soaps are formulated with emollients to help maintain good skin condition even under frequent hand washing conditions. A more satisfying experience can lead to improved hand hygiene compliance.



1984-04

1311-03-EEU

GOJO Mild Foam Hand Soap

Advance your infection control regime with GOJO Mild Foam Hand Soap. Specifically formulated for the healthcare environment and is both unfragranced and colourless. Ecolabel certified.

CODE	DESCRIPTION	USE WITH
Refills		Dispensers
1311-03-EEU (MRB776)	GOJO Mild Foam Hand Soap 700ml LTX-7™ Refill	1384-04
1911-02-EEU (MRB777)	GOJO Mild Foam Hand Soap 1200ml LTX-12™ Refill	1984-04
8711-04-EEU (MRB786)	GOJO Mild Foam Hand Soap 700ml ADX-7™ Refill	8784-06
8811-03-EEU (MRB787)	GOJO Mild Foam Hand Soap 1250ml ADX-12™ Refill	8884-06
5665-02-EEU (MRB384)	GOJO Mild Foam Hand Soap 1200ml TFX™ Refill	2739-12-EEU00
5167-03-EEU (MRB382)	GOJO Mild Foam Hand Soap 1250ml FMX™ Refill	5157-06-EEU00
Bottles		Accessories
5767-04-EEU00 (MRB960)	GOJO Mild Foam Hand Wash 535ml Pump Bottle	N/A



2139-06-EEU00

2103-08-EEU00

GOJO Mild Lotion Soap

GOJO Mild Lotion Soap specially formulated for frequent washing, recommended for healthcare workers and is both unfragranced and colourless.

CODE	DESCRIPTION	USE WITH
Refills		Dispensers
2103-08-EEU00 (MRB380)	GOJO Mild Lotion Soap 1000ml NXT® Refill	2139-06-EEU00 (MRB106)
9103-06-EEU00 (MRB1011)	GOJO Mild Lotion Soap 800ml Refill	9037-12 (MRB107)
Bottles		Accessories
2903-24-EEU00	GOJO Mild Lotion Soap 100ml Flip Top Bottle	N/A

SOLUTION

Moisturise

GOJO® HAND MEDIC® Professional Skin Conditioner

Frequent hand washing can leave hands feeling dry, cracked and irritated - a condition that can discourage proper hand washing and increase the possibility of infection. GOJO HAND MEDIC Professional Skin Conditioner is a water-based, unfragranced emollient that helps maintain the skin's moisture level and prevent dry, damaged hands. Its non greasy formula makes it easy to use and encourages use before and after shifts.

CODE	DESCRIPTION	USE WITH
Refills		Dispensers
8745-04-EEU00 (MRB957)	GOJO HAND MEDIC Professional Skin Conditioner 685ml Refill	8781-06
8242-06-EEU00 (MRB383)	GOJO HAND MEDIC Professional Skin Conditioner 500ml Refill	8200-12
Bottles		Accessories
8150-12	GOJO HAND MEDIC Professional Skin Conditioner 148ml Tube	N/A
8142-12-EEU00 (MRB218)	GOJO HAND MEDIC Professional Skin Conditioner 60ml Bottle	N/A



8745-04-EEU00

8781-06

Community Pack

If your work requires you to be on the move, you still need to follow a hand hygiene regime. The Community Pack is the ideal solution. It is handy enough to go into a bag and contains a 118ml bottle of GOJO Mild Lotion Soap, 60ml PURELL® Advanced Hygienic Hand Rub and a 60ml bottle of GOJO HAND MEDIC Professional Skin Conditioner. Included with the Community Pack is an essential leaflet on skin care advice for Healthcare Workers.

CODE	DESCRIPTION	USE WITH
Community Pack		
2900-06 (MRB252)	Community Pack Refills: 2903-48-EEU00, 8142-12-EEU00, 9606-24-EEU00	N/A



2900-06

Accessories

Easy-to-install wall plate helps eliminate need to repaint or wallpaper surface area prior to new dispenser installation. TRUE FIT™ Wall Plate simplifies dispenser mounting. For use with any LTX™ or ADX™ Dispensers.

CODE	DESCRIPTION	USE WITH
TRUE FIT™ Wall Plate		
1390-WHT-12	TRUE FIT Wall Plate for LTX-7™ Dispenser – White	1320-04
1990-WHT-12	TRUE FIT Wall Plate for LTX-12™ Dispenser – White	1920-04
8790-WHT-12	TRUE FIT Wall Plate for ADX-7™ Dispenser – White	8720-06
8890-WHT-12	TRUE FIT Wall Plate for ADX-12™ Dispenser – White	8820-06

Easy-to-install message station that attaches to the top of ADX and LTX Dispensers. An easy way to encourage good hand hygiene. Requires the use of a TRUE FIT Wall Plate.

CODE	DESCRIPTION	USE WITH
MESSENGER™ Dispenser Station		
1091-WHT-12	MESSENGER Dispenser Station – White	1320-04, 1920-04, 8720-06, 8820-06

SHIELD™ Floor and Wall Protectors help maintain wall and floor appearance by attaching to the bottom of dispensers. Simple and easy to install.

CODE	DESCRIPTION	USE WITH
SHIELD Floor & Wall Protector		
1045-WHT-12	SHIELD Floor & Wall Protector for ADX and LTX Dispenser	1320-04, 1920-04, 8720-06, 8820-06
2760-06	SHIELD Floor & Wall Protector for TFX™ Touch Free Dispenser	2729-12-EEU00
5146-06	SHIELD Floor & Wall Protector for FMX™ Dispenser	5129-06-EEU00
2145-06 (MRB172)	SHIELD Floor & Wall Protector for NXT® Dispenser	2139-06-EEU00



1091-WHT-12, 1990-WHT-12 & 1045-WHT-12 (shown with 1920-04)

*Accessories available following installation.

Use biocides safely. Always read the label and product information before use.

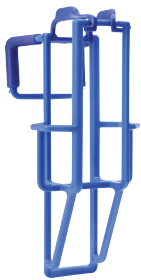
Accessories

Compact, easily removable adhesive-mounted bracket allows you to place 350ml bottles of PURELL® Hygienic Hand Rub products on almost any smooth wall or vertical surface. (Bottle not included)



9500-12-EEU00 9300-12-EEU00

CODE	DESCRIPTION	USE WITH
PLACES™ Holder (Wall Bracket)		
9300-12-EEU00	PLACES Holder for 300ml Bottles	9263-12-EEU00
9500-12-EEU00	PLACES Holder for 500ml Bottles	9268-12-EEU00



9007-12

For maximising the placement bottles, this holder will hook onto most beds, trolleys and rails. Made of durable plastic and with a non-slip rubber coating, it is robust and reliable. Each holder is supplied with matching tie wraps for secure fixing if required. Essential for point of patient care placements. (Bottle not included)

CODE	DESCRIPTION	USE WITH
Hook-On Holder		
9007-12 (MRB184)	Hook-On Holder for 350ml Pump Bottles	9263-12-EEU00, 9696-12-EEU00



5700-12-EFF

For maximising the placement of 535ml bottles, this holder will hook onto most beds, trolleys and rails. Made of durable plastic and with a non-slip rubber coating, it is robust and reliable. Essential for point of patient care placements. (Bottle not included)

CODE	DESCRIPTION	USE WITH
Bed End Holder		
5700-12-EFF	Bed End Holder for 535ml Pump Bottles	5796-04-EEU00



9613-24

The fight against the spread of germs gets personal with the portable PURELL PERSONAL™ System, for use with your 60ml pump bottle. PURELL PERSONAL System with either a retractable clip, or non-retractable clip attaches easily to clothing making hand sanitising more accessible. (Bottle not included)

CODE	DESCRIPTION	USE WITH
PERSONAL Gear Retractable Clip		
9608-24 (MRB105)	PERSONAL Gear Retractable Clip	9606-24-EEU00, 9689-24-EEU00
PERSONAL Gear Non-Retractable Clip		
9613-24	PERSONAL Gear Non-Retractable Clip	9606-24-EEU00, 9689-24-EEU00

SOLUTION

Skin and surface hygiene solutions from the inventors of PURELL® brand

PURELL Body Cleansing Wipes

Designed to maintain the patients personal hygiene, primarily for continence care. Gentle to use, the wipes have been gynaecologically and dermatologically tested for use in intimate areas, and are alcohol free. Body cleansing wipes offer a unique experience with large, thick and soft spunlace wipes.

CODE	DESCRIPTION	USE WITH
PURELL Body Cleansing Wipes		
94004-12-EEU (VJT543)	PURELL Skin Cleansing Wipes 30 Count Flowpack	–



94004-12-EEU

PURELL Hand and Surface Sanitising Wipes

These multi-purpose disinfecting wipes are effective for use on surfaces, class I medical devices, and are also unique in being safe for regular use on hands. The substrate was specifically chosen because it does not interact with the biocides thereby giving the optimum release of solution, and so greater efficacy.

CODE	DESCRIPTION	USE WITH
PURELL Hand and Surface Sanitising Wipes		
92002-40-EEU (VJT542)	PURELL Hand and Surface Sanitising Wipes 40 Count Flowpack	–
92106-06-EEU (VJT541)	PURELL Hand and Surface Sanitising Wipes 200 Count Canister	–
92206-06-EEU (VJT537)	PURELL Hand and Surface Sanitising Wipes 225 Count Bucket	–



92002-40-EEU

92206-06-EEU

PURELL Sanitising Hand Wipes

Enhance patient experience and satisfaction with these sanitising hand wipes. All of the germ-killing benefits of PURELL Hand Sanitiser in a non-linting, durable wipe. Textured for superior cleaning.

CODE	DESCRIPTION	USE WITH
PURELL Sanitising Hand Wipes		
9021-1M-CAN00 (VJT143)	Individually wrapped, ideal for patient food trays, GP surgeries or community Healthcare Workers on the move.	9023-06
PURELL Sanitising Wipes Dispenser		
9023-06	Gravity-fed, clear acrylic dispenser for individually wrapped wipes. Hinged for easy refilling. Holds 120-130 wipes. Two-sided PURELL placard included.	9021-1M-CAN00



9021-1M-CAN00

GOJO® Clean Hands Programme supports infection control

GOJO offers critical staff education and training tools that focus on hand hygiene compliance and proper skin care management in the healthcare environment. Our team will provide a complete training, monitoring and evaluation programme to improve infection control practices by encouraging correct hand washing and sanitising practices, in collaboration with the WHO (World Health Organisation) 5 Moments of Hand Hygiene.

An holistic approach to hand hygiene

Site Survey

- Evaluation questionnaire
- Site requirement audit
- Full audit report

Installation

- Follow up on location specification
- Training staff
- Correct placement of products
- GOJO Dispenser Installation Service

Training

- On-site at customer location
- Dedicated Healthcare Support Managers
- Dynamic educational support
- Exhibition attendance
- Skin monitoring tools
- Visual reminders for staff, patients and visitors

Monitoring Compliance

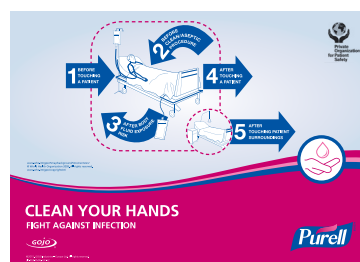
- Compliance reporting

Technical Support

- Antimicrobial evidence data
- Skin tolerance evidence
- Frequent science & technological updates
- Thought leader collaborations
- Technical studies and research

Total solution approach

- Member of POPS
- Hand hygiene sustainability leadership
- Education awareness tools
- IPS Corporate Members
- NHS listed
- Member of AHCP



EVIDENCE

CASE STUDIES

Comparative efficacy of commercially available alcohol-based hand rubs and World Health Organization – recommended hand rubs: Formulation Matters

Edmonds SL et al. (2012) American Journal of Infection Control. 40(6): 521-525.

Use of alcohol-based hand rubs (ABHRs) effectively reduces transmission of pathogenic microorganisms. However, the impact of alcohol concentration and format on product efficacy is currently being debated. A series of studies were conducted to determine the influence of ethanol concentration, product format and product formulation of the ability to meet global *in vivo* efficacy standards. The results in the article highlight the importance of the total ABHR formulation in determining *in vivo* efficacy, particularly under high-frequency use.

Assessment of the Efficacy of PURELL® Hand Sanitising Gel VF481™ against Human Norwalk Virus by Fingerpad Method

Macinga DR et al. (2008) Applied Environmental Microbiology. 74(16): 5047-52.

The objective of the study was to examine the efficacy of a new synergistically-formulated hand sanitiser (PURELL Hand Sanitising Gel VF481) against Human Norwalk virus using a modified American Society of Testing and Materials (E 1838 O2) method using PURELL Hand Sanitising Gel VF481 at exposure times of 30 sec. and 15 sec involving human subjects. Each participant was asked to wash, disinfect and dry his/her hands. Then, ten cl of a 20% stool suspension containing Human Norwalk virus was inoculated onto the fingerpads of both hands. Virus was immediately eluted from one fingerpad in order to measure the input concentration of virus. After drying for 20 minutes, virus from another finger was eluted to measure the remaining amount of virus after drying. The dried virus on the fingerpads were then exposed to 1ml of PURELL Hand Sanitising Gel VF481 for either 30 seconds or 15 seconds. Any remaining virus was then eluted off the fingerpads.

None of the volunteers who participated in this study reported any adverse effects from using the PURELL Hand Sanitising Gel VF481 hand sanitiser or gastrointestinal illness from contact with Human Norwalk virus.

PURELL Hand Sanitising Gel VF481 is an effective hand sanitiser against Human Norwalk virus. The Human Norwalk virus concentrations on the fingerpads exposed to PURELL Hand Sanitising Gel VF481 were significantly lower than the virus concentrations on the fingerpads with the dried virus control.

Alcohol-Based Hand Rubs: Antimicrobial Efficacy and Clinical Effectiveness

Macinga, D. R. et al., 2011. Alcohol-Based Hand Rubs: Antimicrobial Efficacy and Clinical Effectiveness. GOJO Industries, Inc. White paper

The purpose of the document is to provide a scientific overview of ABHRs with the specific objective of addressing critical variables which may influence their antimicrobial efficacy and clinical effectiveness. The white paper concludes that the implementation of ABHR as the primary means of routine hand hygiene in healthcare settings has been directly associated with increased hand hygiene compliance rates and reduced HAI rates.

Modification of EN 1500 Methodology to Better Evaluate the Influence of Application Volume on Alcohol-Based Handrub Efficacy

Leslie RA et al. Presented at Hospital Infection Society in Lyon, France. November 2014.

The WHO has called for the development of improved methods to evaluate the efficacy of hand hygiene products that better reflect actual usage. This study examined a modification of EN 1500 where doses of 60% isopropanol were rubbed until dry.

Rubbing the product until dry revealed a correlation between dry time and efficacy. The longer the contact time of the product, the greater the log reduction. Methods that evaluate ABHRs for efficacy, should incorporate rubbing until dry to connect measured efficacy with practical use.

Are alcohol concentrations >70% needed for hygiene hand rub efficacy?

Leslie RA et al. Presented at Infection Prevention Society in Liverpool, UK. September 2012.

There is ongoing debate in healthcare about the alcohol concentration needed in an ABHR to achieve high antimicrobial efficacy. Some healthcare systems have even set minimum limits for ABHR alcohol concentration at 75% or 80% despite previous publications showing formulation, not alcohol level, is the key predictor of ABHR efficacy.

The 70% ethanol ABHR significantly reduced transient bacteria (EN 1500) and resident bacteria on human hands (EN 12791) thus meeting EN *in vivo* bactericidal methods. The 70% ethanol ABHR demonstrated strong *in vivo* efficacy against fungi and non-enveloped viruses (in most cases > 3 log or 99.9% reduction). When the test product was introduced into acute care wards in a hospital, skin moisture and skin health on the hands of healthcare workers was maintained over 4 weeks.

The influence of ABHR product format on *in vivo* efficacy: a meta analysis

Edmonds SL et al. Presented at Association of Professionals for Infection Control and Epidemiology in San Antonio, TX. June 2012.

ABHR are available in a number of different formats including rinse, spray, gel, and foam. In U.K. healthcare facilities the most common formats are gel and foam. There are conflicting publications regarding the relative efficacy of gel versus foam ABHR. The objective of this study was to determine whether product format influences ABHR efficacy through a meta-analysis of multiple studies comparing both gel and foam products. The meta-analysis of this data indicates that product format does not significantly influence efficacy. Foam and gel ABHR based on the same technology achieve equivalent antimicrobial efficacy when tested at real world volumes.

Influence of alcohol-based hand rub format on dry time and efficacy

Macinga DR et al. (2014) BMC Infectious Diseases. 14: 511.

A recent publication has suggested that foam ABHRs dry more slowly than ABHR gels and rinses, which encourage health care workers (HCWs) to use smaller, ineffective volumes. However, analysis of ABHR gels and rinses was not included for comparison to the foams. The objective of this study was to evaluate dry times and efficacy of the rinse, gel, and foam ABHR formats. A single ABHR formulation in three formats showed similar dry time profiles across the range of product application volumes tested. All products tested had statistically equivalent 30 second dry times regardless of format and alcohol concentration. The influence of alcohol concentration on dry time was not statistically significantly at a dose representative of actual ABHR use (1.7ml). A panel of nurses did not perceive a difference ($p > 0.05$) in dry time between a gel and foam product of the same basic formulation and alcohol concentration.

Efficacy of Alcohol-Based and Non-Alcohol Hand Rubs After a Single Use and Repeated Use

Macinga D et al. Presented at International Conference for Prevention and Infection Control in Geneva, Switzerland. June 2013.

Alcohol-based hand rubs (ABHR) are the recommended form of hand hygiene used in healthcare facilities around the globe. In some markets, ABHRs also contain secondary actives or are replaced by a non-alcohol solution in facilities with special needs, such as psychiatric. A study was conducted to compare the efficacy of hand rubs representing the active ingredients most commonly found in healthcare waterless hand hygiene products. The study supports previous findings that optimising total product formulation is key for product efficacy. The presence of an additional active with alcohol does not guarantee superior efficacy. Also, the findings provide additional evidence that efficacy of non-alcohol hand rubs may not be sufficient for use in healthcare.

1. World Health Organization (WHO) "Healthcare-associated infections fact sheet"
2. World Health Organization (WHO) "Clean Care is Safer Care"
3. GOJO Industries, Inc., Functional - Field Test, 2011-01-F10232 and 2011-01-F10233, 10 May 2011

Use biocides safely. Always read the label and product information before use.



EU Ecolabel : UK/030/003



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