

Primel

Spreading Protection

Primel: Revolutionary Skin Protection

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Tridant[®]
INFECTION PREVENTION



Agenda

- Hand hygiene and challenges
- Evolution of Hand hygiene - Primel Skin Protection powered by TridAnt
- Overall summary



Healthcare Sector: Hand Hygiene and Pathogen Transmission

Hand hygiene (HH):

- Hand hygiene has long been regarded as a cornerstone of infection prevention and one of the most effective ways of reducing transmission of pathogens and thereby hospital-acquired infections (HAIs)
- WHO and NHS recommend hand washing with soap and water and the use of hand sanitisers.

Challenges:

- Transmission of pathogens from contaminated hands increase HAI's especially by antibiotic resistant bacteria¹
- Low rates of Hand hygiene compliance amongst healthcare workers have been reported globally²
- Most hand sanitisers are effective immediately but provide little protection after application³

New innovation in technology for improving HH is needed to combat existing challenges

(1) Lotfinejad *et al.* Hand hygiene in health care: 20 years of ongoing advances and perspectives. **Lancet Infect Dis.** (2021),21 pp 209-221.

(2) Clancy *et al.* Hand-hygiene-related clinical trials reported between 2014 and 2020: a comprehensive systematic review. **J. Hosp.Infection**, 111 (2021), pp 6-26.

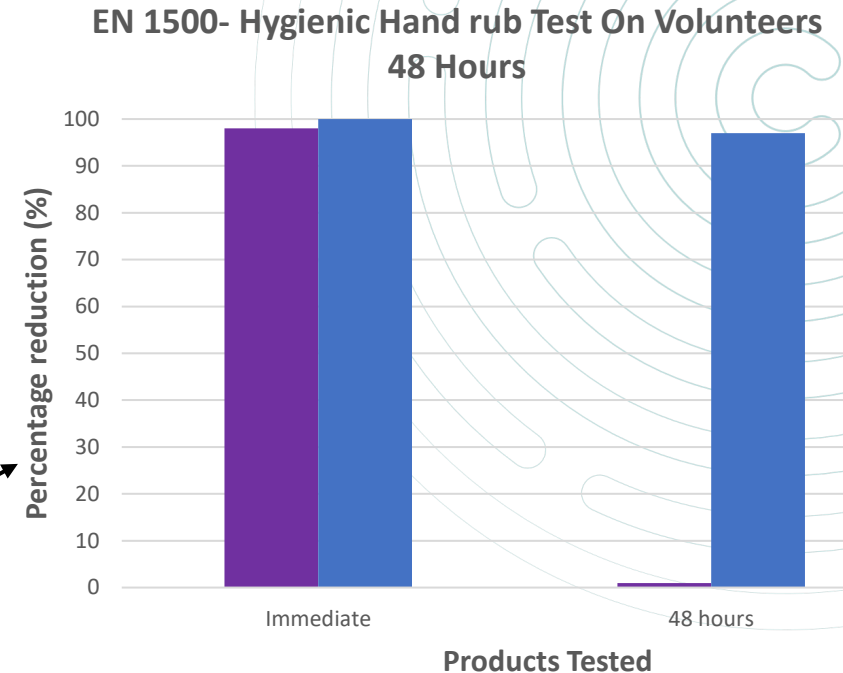
(3) Emami A *et al.* Hidden threat lurking behind the alcohol sanitizers in COVID-19 outbreak. **Dermatol Ther.** (2020),33(4):e13627.

Evolution of Hand Hygiene - Primel Skin Protection

- Primel Skin Protection has been developed from BioInteractions' TridAnt® Enhanced Antimicrobial technology. These biocompatible materials have been used on Class III medical devices for over 30 years.
- Primel Skin Protection consists of functionalised, non-leaching biocompatible polymer matrix. After application, a thin film protects the surface of the skin for 48 h.
- The technology works through a contact kill mechanism, thereby disrupting the surface of broad spectrum of microorganisms through electrostatic interactions within 15 sec.
- The combination of non-leaching components and the contact kill mechanism provides 5 log reduction efficacy, durability and safety.
- “Kill on Touch” unique property of leaving a surface cleaner- only technology which allows users to disinfect surfaces with their touch to spread protection and to help reduce transmission of germs.
- Extensive external testing has been carried out against multiple microorganisms including enveloped and non-enveloped viruses, Gram positive and Gram negative bacteria, as well as yeast.
- Proven to be superior to well-known regularly used hand sanitiser on its immediate and residual effect in a “real world healthcare environment”.

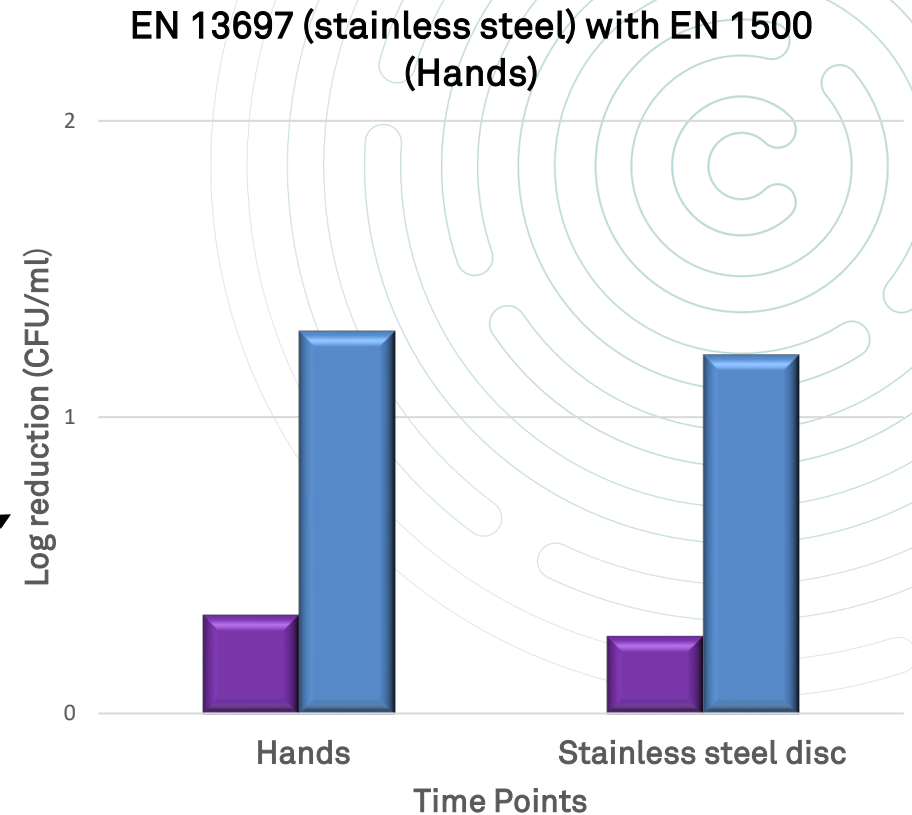
Primel Skin Protection: Summary of Key Results

- Highly effective biocompatible materials giving broad spectrum antimicrobial activity (5 log reduction) :
 - EN 14476 (enveloped and non-enveloped viruses)
 - EN 13727 Gram positive and Gram negative bacteria, as well as yeast).
 - EN 13727 drug resistant bacteria in 15 seconds
- The 15 sec fast mode of action, provides immediate protection which is unseen in regular hand sanitisers.
- The Primel technology remains on the skin for 48 h whilst maintaining efficacy.
- This provides enhanced personnel Hand Hygiene, helps to improve compliance to modern NHS standards and thereby enabling reduction in HAI's.



Primel Skin Protection: Summary of Key Results

- Liquid formulation, easily applied and remains after wearing of surgical gloves but can be washed off with soap and water.
- Suitable for the medical area and can be used as a surgical hand disinfectant
 - EN 1500 – Hygienic Handrub Test: **Primel Skin Protection had greater efficacy compared to alcohol reference product**
 - EN 12791- Surgical Hand Disinfection Test: **Significant efficacy against microflora maintained over 3h**
- Only product that disinfects surfaces that it contacts with its the unique property of “Kill on Touch” leaving a surface cleaner, thereby reducing the transmission of pathogens.
- Proven to be superior to regular standard sanitisers on the market today by having a greater sustained antimicrobial efficacy.



To further demonstrate the significant difference between Primel Skin Protection and regular standard sanitiser a “real world in use evaluation” has been conducted by Perfectus Biomed (Dr Kerry-Ann Kite).

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**Thank you and help us
to spread protection**

