



Introducing

ZOONO®

ZOONO[®]

WHAT IS ZOONO?

ZOONO IS A REVOLUTIONARY, RESIDUAL,
ANTIMICROBIAL PROTECTION TECHNOLOGY



**WATER
BASED**



**NO
ALCOHOL**



**GENTLE
FORMULATION**

ZOONO[®]

HOW DOES IT WORK?

WORKS WHEN DRY

ZOONO works when dry.

LEAVES A PERMANENT LAYER ON SURFACE

ZOONO leaves a monomolecular layer permanently bound to the surface.

PIERCES MICRO-ORGANISM

The ZOONO molecule resembles an antimicrobial spike that pierces the micro-organism, 'popping' it like a balloon.

REPEATEDLY KILLS GERMS MECHANICALLY

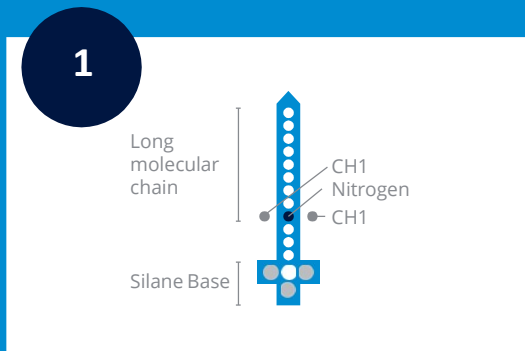
ZOONO kills repeatedly and mechanically, not chemically.

MIST, FOAM OR WIPE

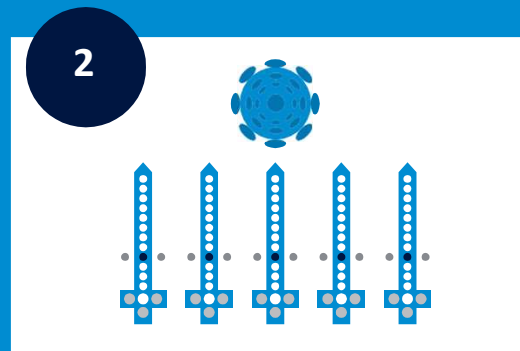
ZOONO can be applied as a mist, foam or wipe.

THE ZOONO MOLECULE

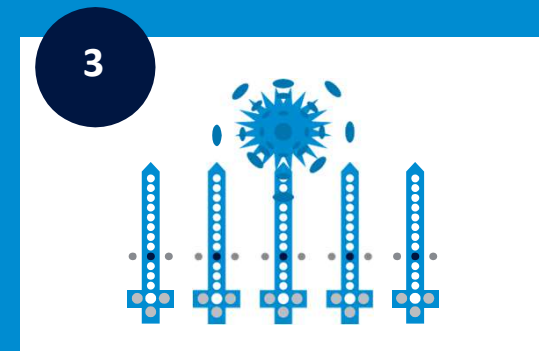
THE ZOONO MOLECULE RESEMBLES AN ANTIMICROBIAL SPIKE THAT PIERCES THE MICRO-ORGANISM, 'POPPING' IT LIKE A BALLOON. ZOONO KILLS GERMS MECHANICALLY.



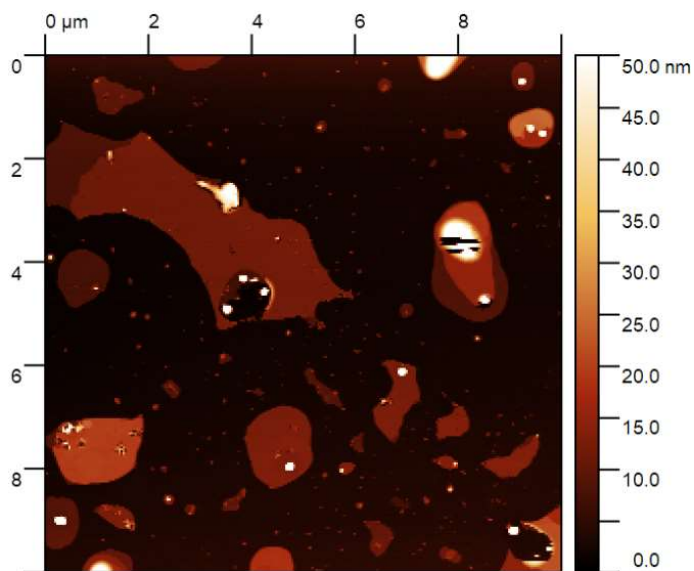
THE ZOONO MOLECULE WITH LONG, POINTED CHAINS OF ATOMS.



MICROBE LANDING ON A MICROSCOPIC BED OF SPIKES.



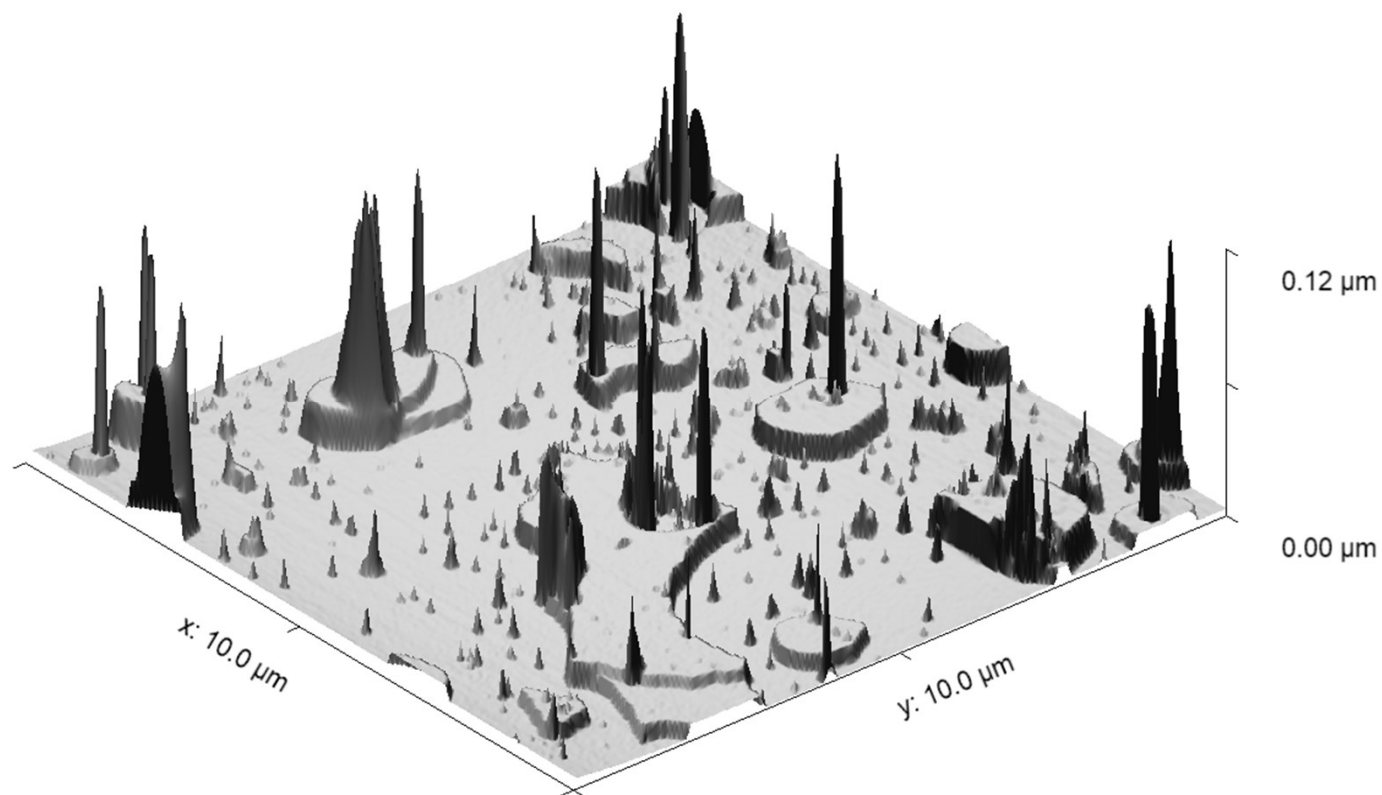
DESTRUCTION OF THE MICROBE.



THE UNIVERSITY OF
WARWICK



ZOONO[®]



BUNZL BCHS
Cleaning & Hygiene Supplies

COMPARISON	ZOONO PRODUCTS	REGULAR PRODUCTS
PRINCIPLE	Physical Disruption	Dehydration or chemical poison
METHOD	Attracts, Pierces and Kills Pathogens	Chemical infiltration / Dehydration
DURABILITY ON SURFACES	Proven Effective up for long periods	Effective for short term only
TOXICITY	LD ₅₀ similar to that of Vitamin C	Usually highly toxic
EASE OF HANDLING	Ready to use / Easy to use	Require mixing / most contain poisons
MUTATION / SUPERBUGS	Resistance impossible = NO mutation	Promote development into superbugs!
TESTS / PROOF OF EFFICACY	150+ Test results from Labs - globally	Usually not available / not published

ZOONO[®]

KEY FACTS



**KILLS
GERMS ON
ALL SURFACES**

ZOONO kills germs on all surfaces for up to 30 days even after routine cleaning.



**KILLS
GERMS ON
THE SKIN**

ZOONO kills germs on the skin (people and animals) for up to 24 hours, even after washing.



**KILLS
GERMS ON
TEXTILES**

ZOONO kills germs on textiles even after 30 washes.



**IT IS
FOOD SAFE**

ZOONO is food safe.

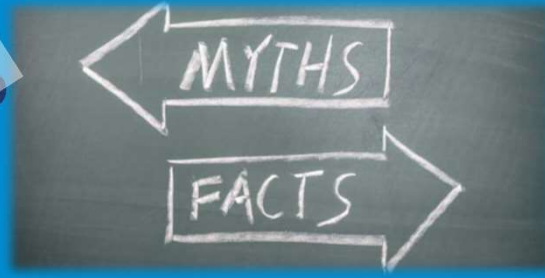


**USES NO
POISON OR
ALCOHOL**

ZOONO uses neither poison nor alcohol, unlike most disinfectants which have no lasting properties.

ZOONO[®]

MYTHS
We DO NOT need to
clean if we use Zoono
Zoono can't be true!



**We still need
Cleaning!
Zoono keeps on working**

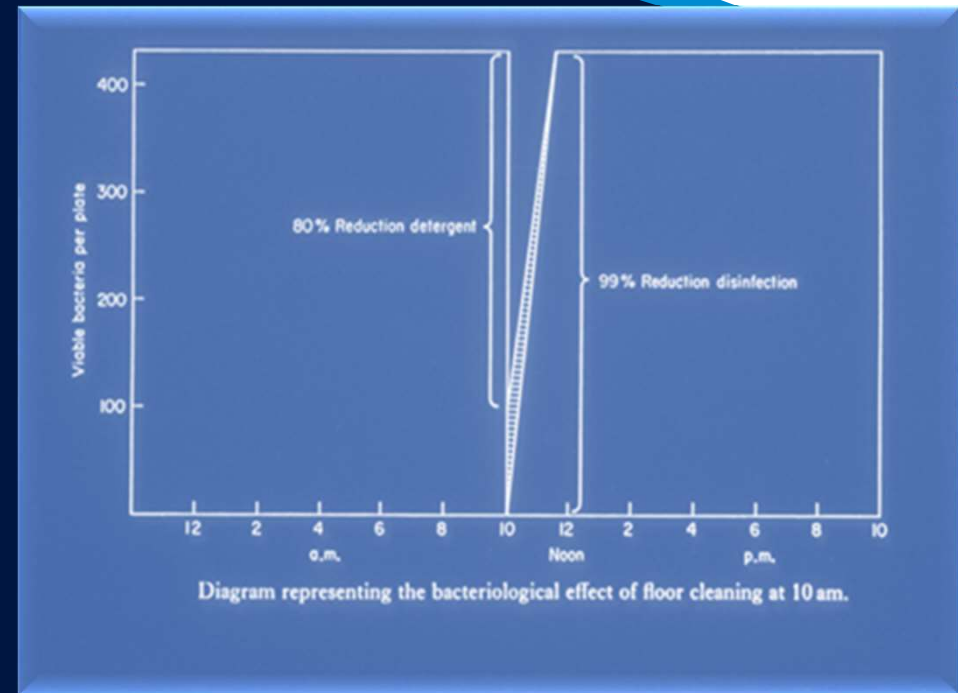


BSI PAS:2424 - Passed

- The removal of “soil” is important for best results
- Cleaning is important for aesthetic appearance and patient expectations
- “Soil” interferes with antimicrobial activity
- “Normal” cleaning after application is important to remove body fats and other soils.
- Because the molecule is bound to the surface and it is very difficult to remove traditional cleaning after application will not remove the protective layer

Environmental Contamination: The need for residual biocides

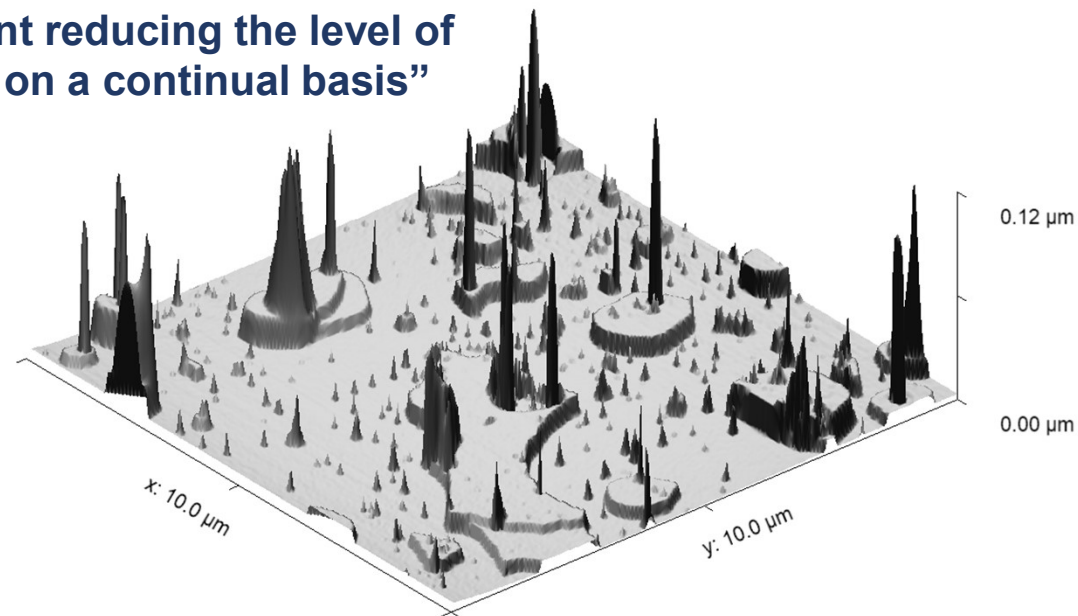
- The microbiological reality:
- “After cleaning and/or disinfection, levels of microorganisms soon return to previous levels”
- This can happen in as short a time period as 1-2 hours depending on activity
- Residual biocides provide longer surface activity.



The Case For Zoono

- Cleaning and disinfection removes/kills microorganisms at point of use
- Surfaces quickly become re-contaminated after 2 hours
- Zoono creates a residual barrier to greatly reduce re-contamination
- Zoono delivers:

“A sustained microbiologically clean environment reducing the level of contamination with pathogenic microorganisms on a continual basis”





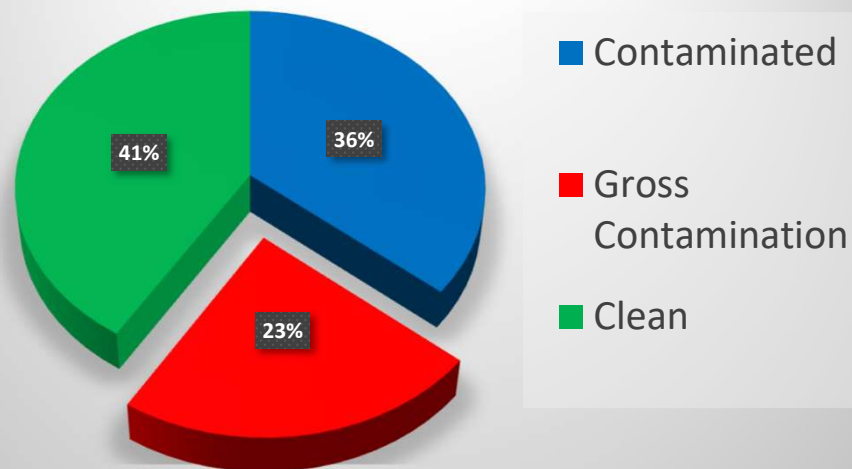
PUBLIC TRANSPORT

LONDON UNDERGROUND

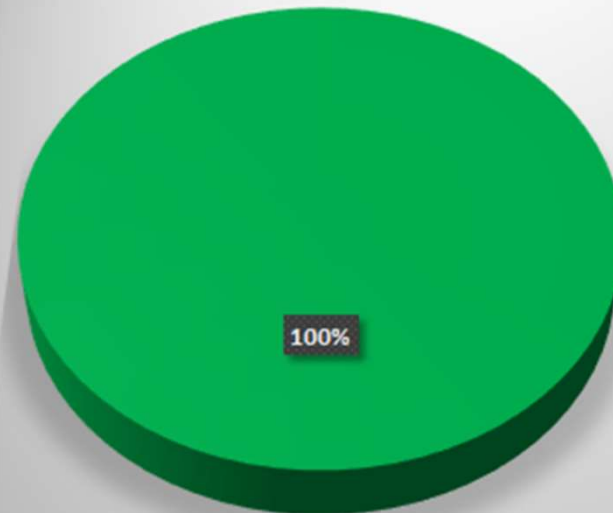
Successful trials in the London underground gave incredible results after 25 days of 'live service' between cleaning cycles.



NON ZOONO CARRIAGES



ZOONO CARRIAGES



THE BENEFITS AND COST SAVINGS

ZOONO[®]

EFFECTIVE & EFFICIENT

Effective and efficient disinfection and cleaning procedures. **35% + Savings In Chemicals**

REDUCTION IN SICKNESS

Reduction in HAI's E Coli cost the NHS £2.1 billion in 2018.

REDUCED RISK

Reduced risk of serious illness.

FEWER ISSUES

Fewer issues with contaminated environment and people.

POSITIVE RESULTS

Positive PR for any organisation, hospital, company, looking after staff and patients with our unique technology.

POTENT CAPABILITY

We are a potent capability in a world where antibiotics are becoming less effective.



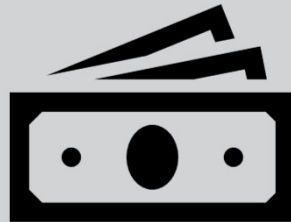
ZOONO®

Facilities Management

Zoono provides an ideal capability to reduce harsh chemical use, improve health and hygiene and the bottom line in all sectors.



£



€

Past And Present "Mad Ideas"

Idea/ Innovation	Comments Before Acceptance	Now
Alcohol Hand Sanitiser	<i>"bar of soap is good enough"</i> <i>'It will never be accepted"</i> <i>"Why should I Change?"</i> <i>"Never been a problem using a bar of soap"</i>	Common Infection Control Practice
Micro-Fiber	<i>"Only needs water"</i> <i>"Too Complicated"</i> <i>"Too Expensive and not better than disposable"</i>	Common Cleaning Practice
HPV Technology	<i>"Too Dangerous"</i> <i>"3 Hours??"</i> <i>"Too Expensive"</i> <i>"Will not reduce HAI"</i>	Common high level disinfection practice.
Zoono	<i>"Will never work"</i> <i>"I don't believe you"</i> <i>"Why Change?"</i> <i>"What we already do is fine"</i> <i>"Will not reduce HAI"</i>	The Future is here?



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