

WEBINAR SERIES

Complete Care for Aged Care

Choosing a disinfectant & auditing 'clean'



Kate Smith

Head of Clinical Solutions, Training and Support –
GAMA Healthcare



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Best practice for the management of
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WEBINAR SERIES

Complete Care for Aged Care



Choosing a disinfectant, and auditing 'clean'

Choosing a disinfectant, and auditing 'clean'

Overview



- Knowledge & attitudes to cleaning
- An introduction to cleaning & disinfection
- Considerations when choosing a disinfectant
- Auditing 'clean'
- Q & A

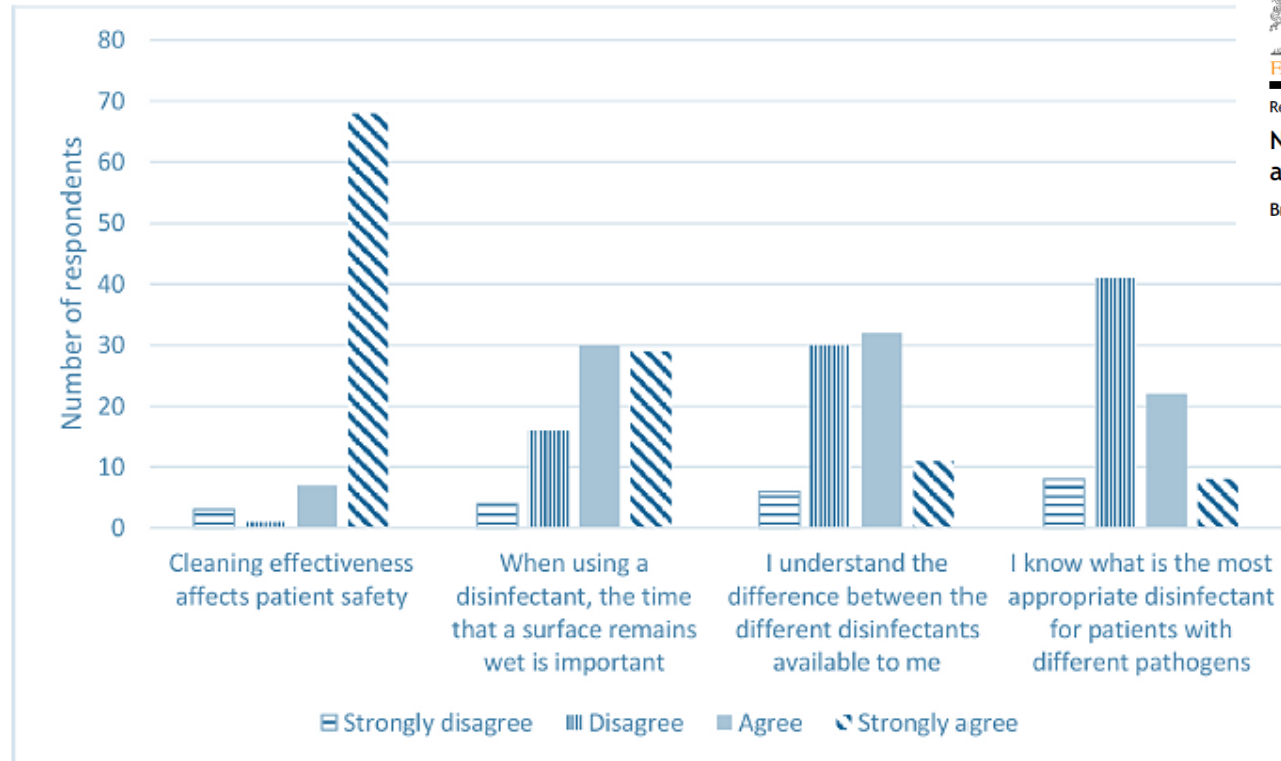
Choosing a disinfectant, and auditing 'clean'

Overview



Choosing a disinfectant, and auditing 'clean'

Knowledge & attitudes



Most did not feel comfortable being admitted to a room where the previous patient had a multi-drug resistant organism (never 42% or only sometimes 34%)

Infection, Disease & Health (2021) 26, 55–62



Available online at www.sciencedirect.com

ScienceDirect

journal homepage: <http://www.journals.elsevier.com/infection-disease-and-health/>

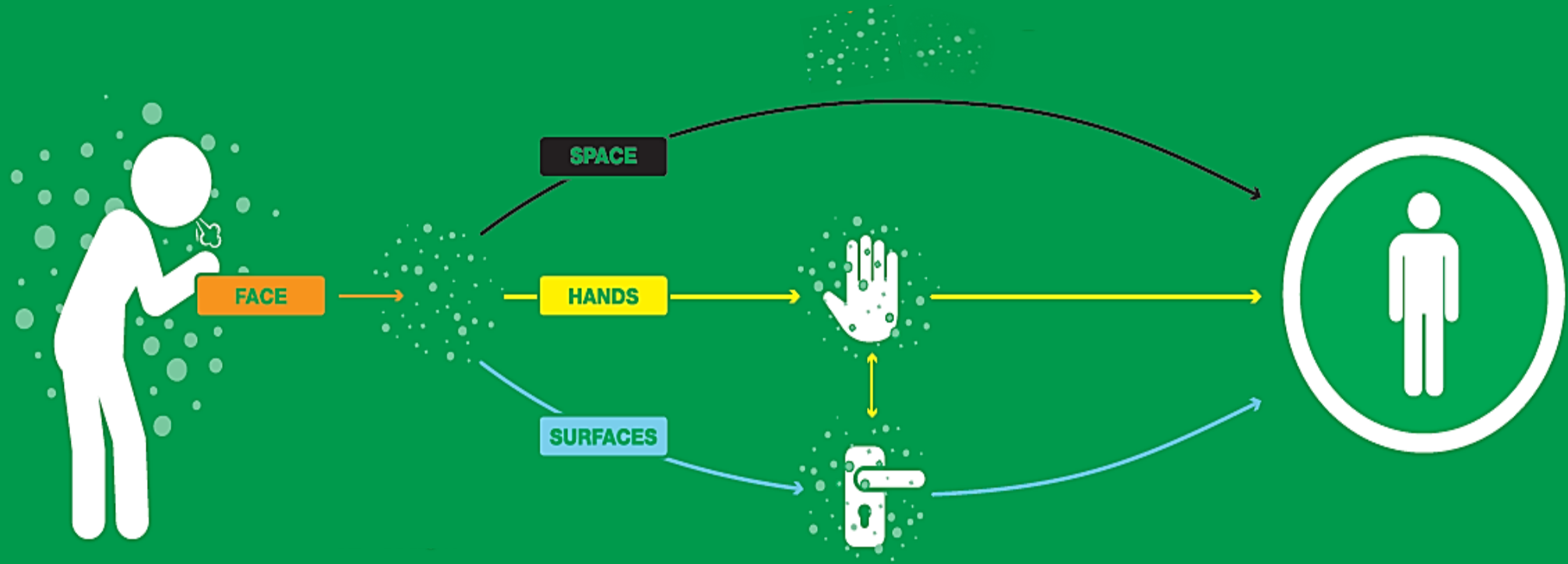


Research paper

Nurses' and midwives' cleaning knowledge, attitudes and practices: An Australian study

Brett G. Mitchell ^{a,b,*}, Philip L. Russo ^{c,d}, Martin Kiernan ^{a,e}, Cassie Curryer ^a

Transmission of Microorganisms



Transmission of Microorganisms

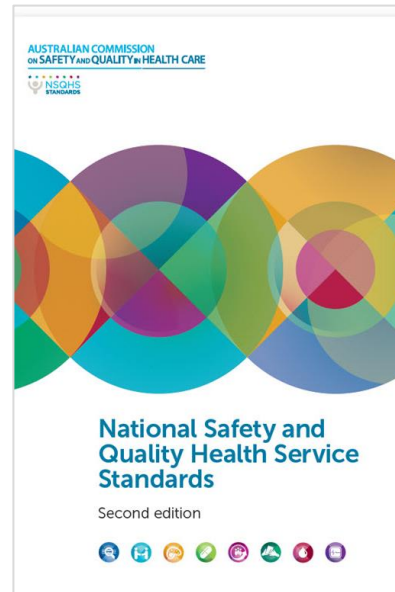
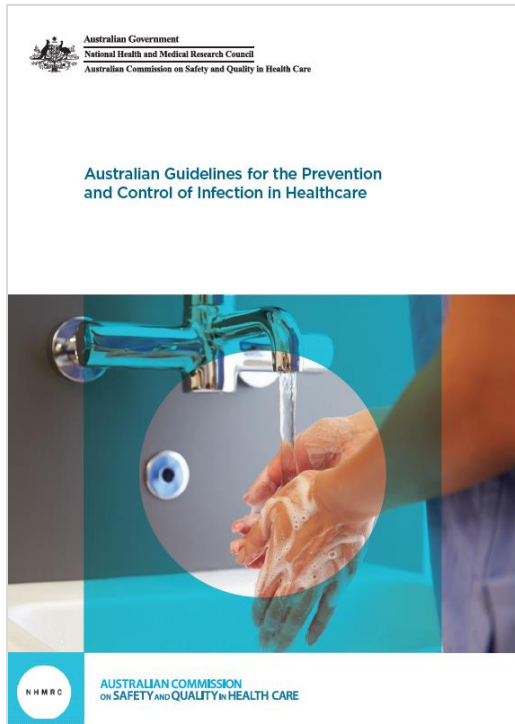
Why we clean

“Bugs cannot walk, jump or run;
they must hitch hike from one
place to another”

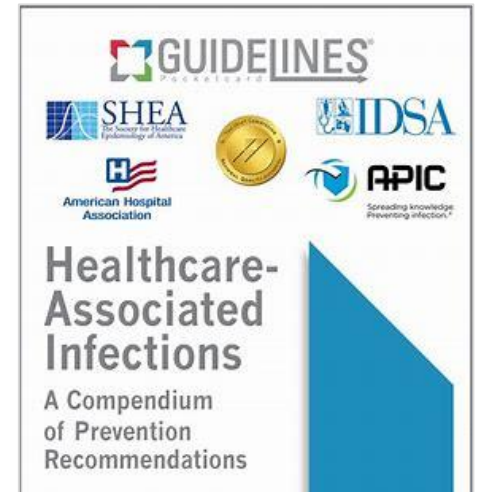


National and International Guidance

Surface decontamination is now included in national and international infection prevention and control policies and guidelines



ACIPC
Australasian College
for Infection Prevention and Control

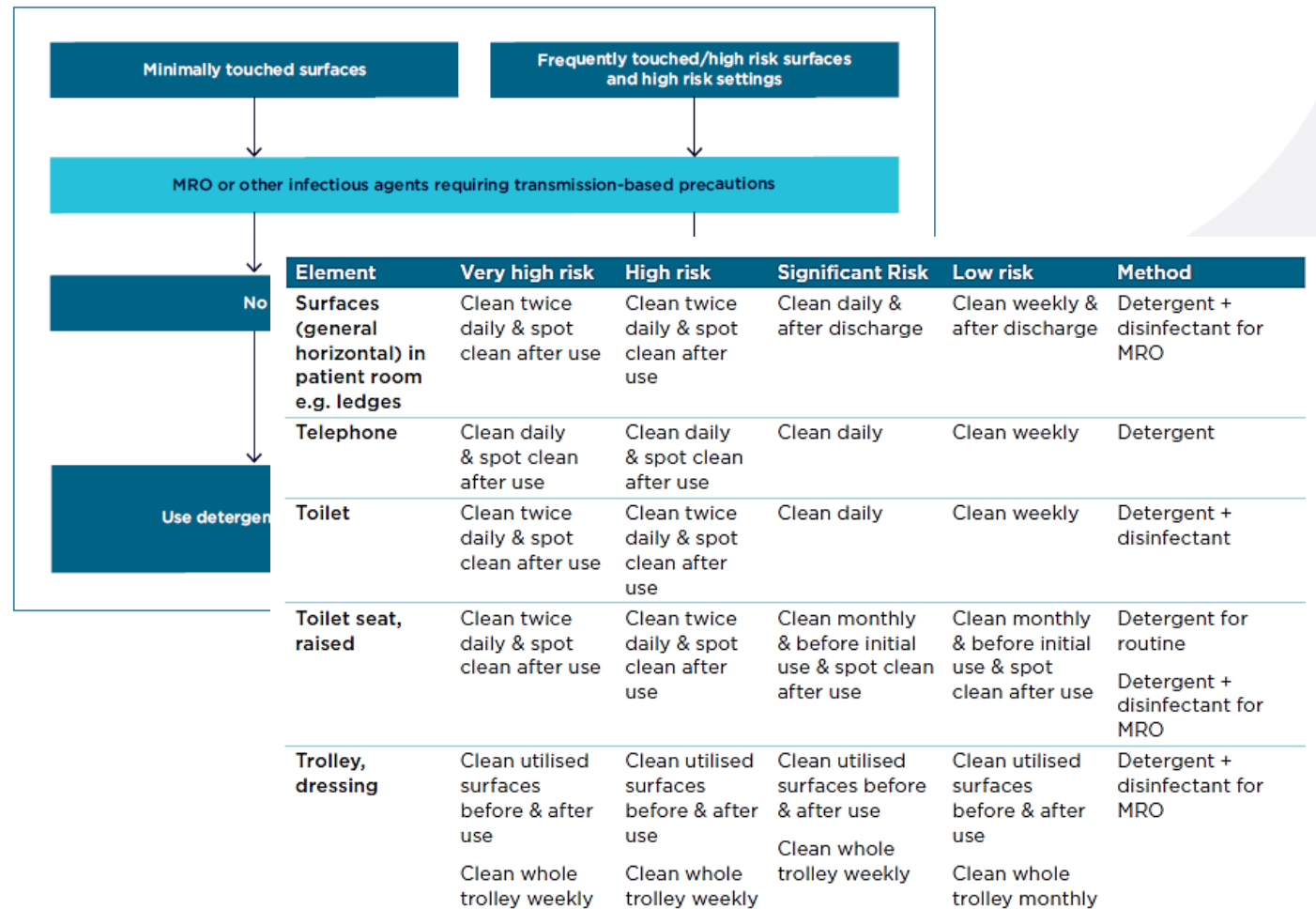


Choosing a disinfectant

Risk assessment



The methods, thoroughness and frequency of cleaning and the products used for different surfaces are determined by risk analysis and reflected in your facility policy



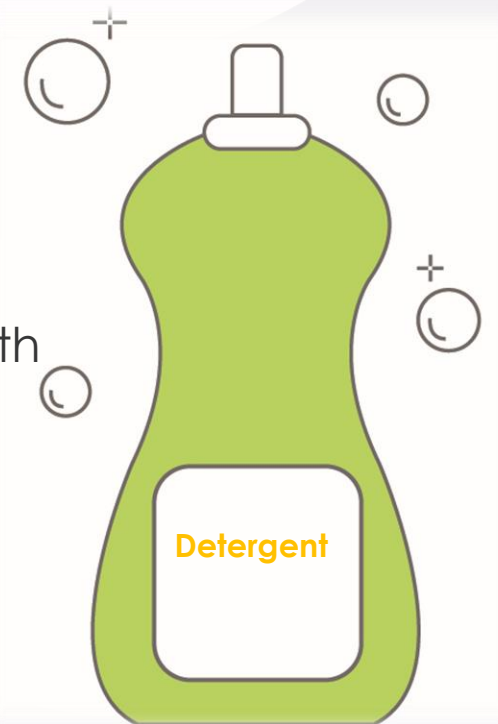
Choosing a disinfectant

Detergent & Disinfectants

What is the difference between Detergent and Disinfectants?

Detergent – a cleansing agent containing surfactant/s to aid in the removal of organic soil and oils, fats, and greases.

- ❖ Detergents loosen germs
- ❖ Friction & Pressure aids removal
- ❖ Surfaces should be dried after cleaning to reduce further microbial growth
- ❖ A detergent alone will not kill pathogens, but help to physically remove them and reduce bioburden



Choosing a disinfectant

Detergent & Disinfectants

Disinfectant – An agent that reduces the number of pathogenic organisms to a level felt not to be harmful

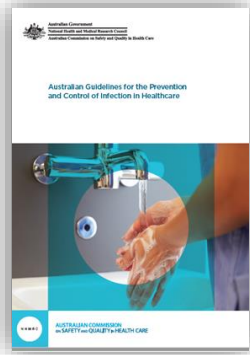
To be effective against pathogens, a disinfectant must:

- ❖ be applied to a clean, dry surface – pre clean with detergent
- ❖ be used at the right concentration
- ❖ have enough time in contact with the surface to kill the pathogen
- ❖ be effective against those particular pathogen.



Choosing a disinfectant

Choosing the right disinfectant



To kill germs, any disinfectant must:

- have enough time in contact with the surface to kill the germs
- be used at the right concentration
- be applied to a clean, dry surface
- be effective against those particular germs

But also consider:

- TGA registration
- Ease of use – compliance
- Efficacy in soiled conditions
- Achievable contact time
- pH & compatibility
- User acceptance
- Training & support
- Cost



Choosing a disinfectant

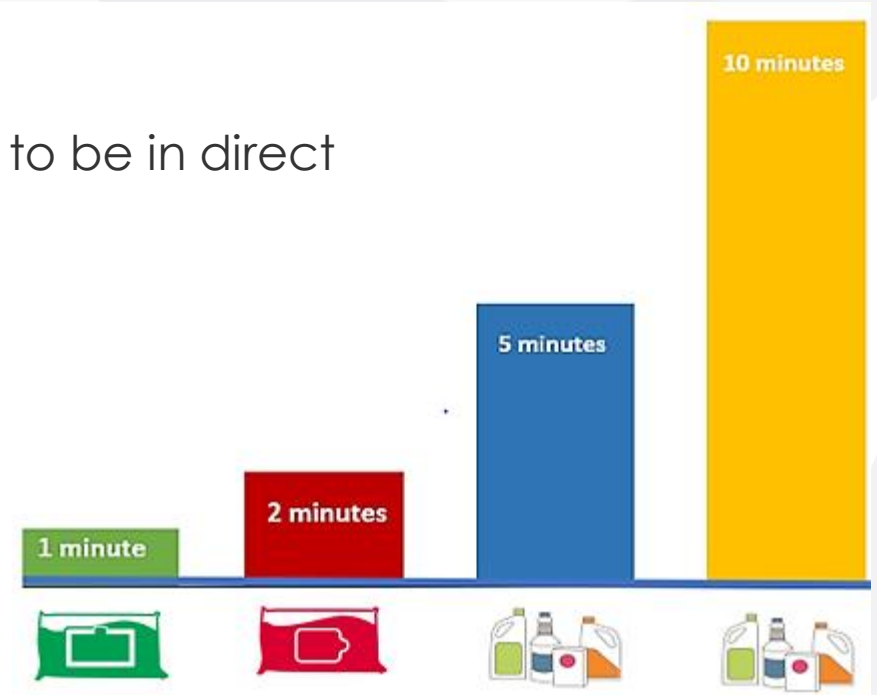
Contact time



Different disinfectants will have different contact times

In order to work, the disinfectant has to be in direct contact with the microorganism

This means surfaces must be left damp for the specified period of time, for the disinfectant to be effective

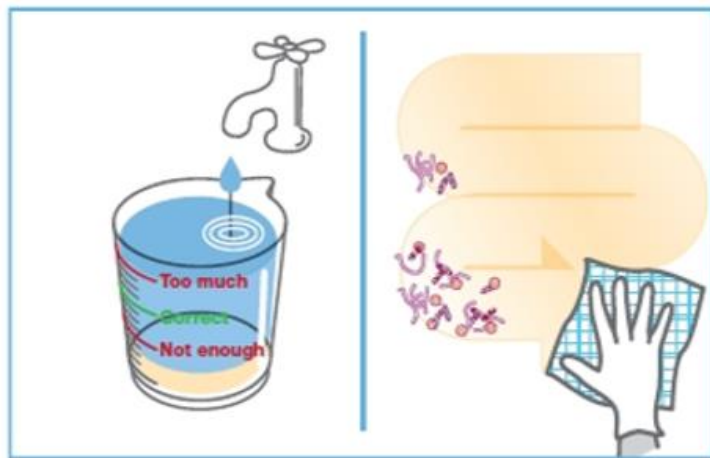


Choosing a disinfectant

Correct concentration

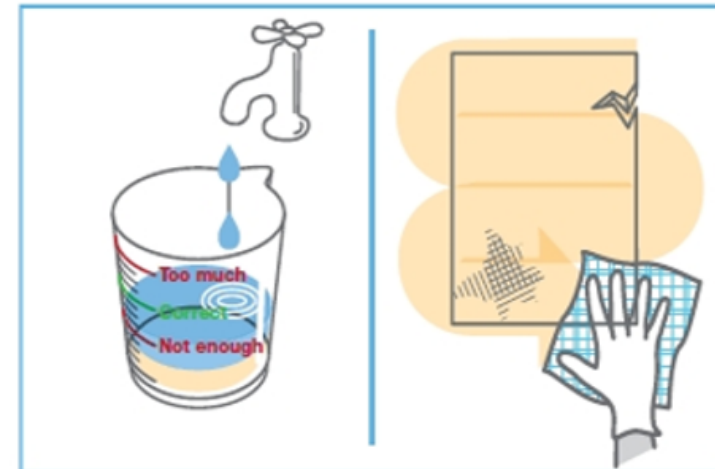
Disinfectants that are provided in the correct concentration reduce the risk of over-dilution or under-dilution

Too much water



If its too weak then is not effective.

Too little water



Using too little water results in a solution that is too strong, & potentially harmful to surfaces as well as the user.

Choosing a disinfectant

Efficacy

Does the product kill the most prevalent healthcare pathogens?




Choosing a disinfectant



Efficacy

Has the product been tested in an accredited laboratory?

- ISO 17025 Laboratory
- Test method
- Clean or dirty conditions
- Test organism
- Contact time
- Result

mgsLABORATORIES <small>Microbiological Services and Consultancy</small>		Doc No. TRB-2016-114-03		 4393	
Title	Microbiological Analysis Based on EN 14561 (2006) Quantitative carrier test for the evaluation of bactericidal activity for instruments used in the medical area. (Phase 2 / Step 2)				
Product	Clinell Australian Universal Wipes	MGS No	23705	SO No	5652

Interfering substance: 3.0ml/l sheep erythrocytes and 3.0g/l Bovine albumin

Identification of the bacterial strains used	<i>Pseudomonas aeruginosa</i>	ATCC 15442
	<i>Enterococcus hirae</i>	ATCC 10541
	<i>Staphylococcus aureus</i>	ATCC 6538
	<i>Enterococcus faecium (VRE)</i>	NCTC 12204
	<i>Acinetobacter baumannii (DR)</i>	ATCC-BAA-1799

Contact time: 60 seconds ± 10s

Name of product: Clinell Australian Universal Wipes -liquid expressed from wipes

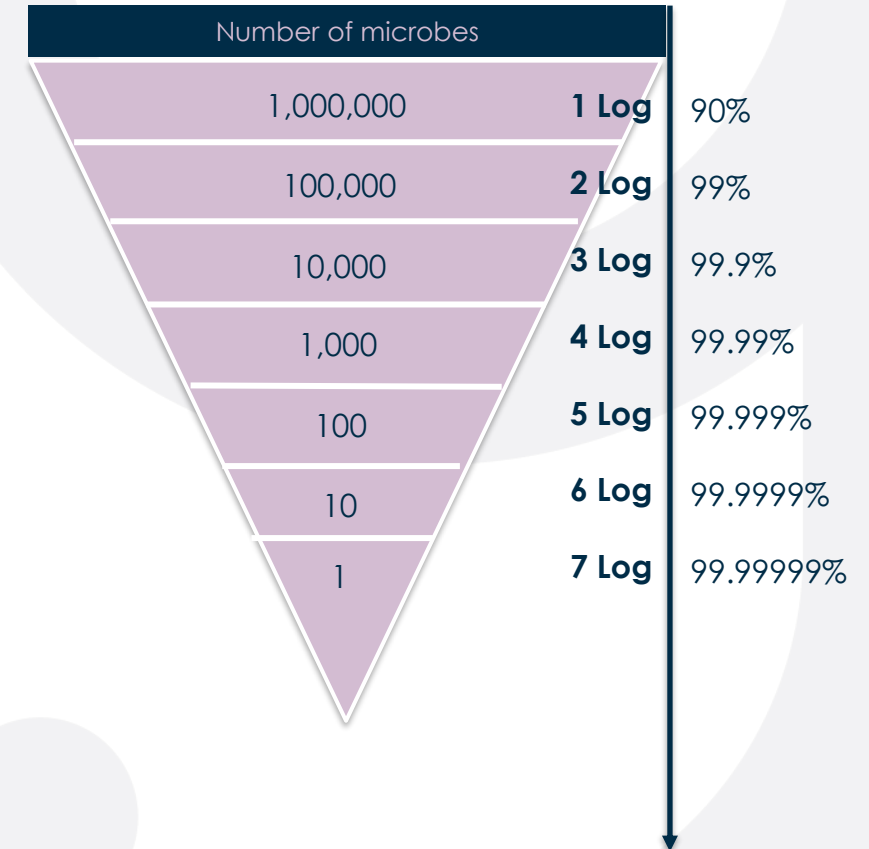
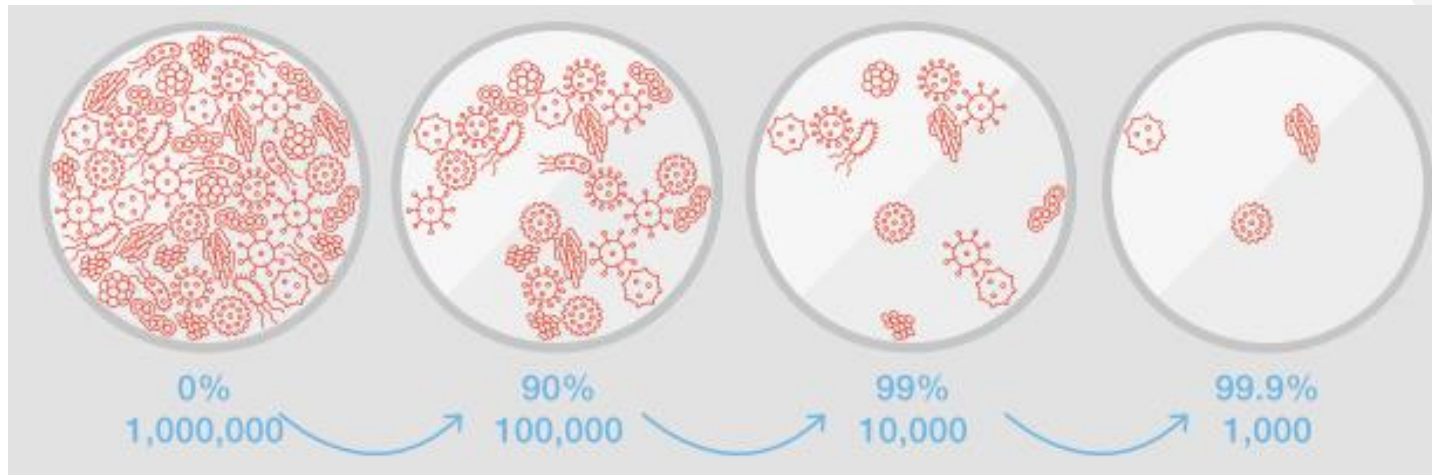
Conc of the product	Dilution Step	Vc1	Vc2	Na = $\chi \times 10$	Ig Na	Ig R	Contact time
RTU	10 ⁰	<14	<14	<140	<2.15	>5.55	60 seconds
	10 ⁻¹	<14	<14				
	10 ⁻²	<14	<14				
	10 ⁻³	<14	<14				

Cleaning & Disinfection

Efficacy

Does the product kill enough of the pathogen?

➤ What is the log reduction



Log reduction definition

Log reduction is a measure of how thoroughly a decontamination process reduces the concentration of a contaminant

Choosing a disinfectant

TGA registration



Surfaces should be physically cleaned with a detergent solution, followed or combined with a hospital-grade disinfectant with specific claims listed on the Australian Register of Therapeutic Goods (ARTG)



Australian Government
Department of Health
Therapeutic Goods Administration

Choosing a disinfectant

TGA registration

- Is the product TGA registered
- What is it registered for? What specific claims do they make ?
Class 1, Class IIB , hospital grade, instrument grade

Public Summary			
Summary for ARTG Entry:	299351 GAMA Healthcare Australia Pty Ltd - Medical device cleaning/disinfecting wipe		
ARTG entry for	Medical Device Included Class IIB		
Sponsor	GAMA Healthcare Australia Pty Ltd		
Postal Address	1/395 Nepean Highway, Frankston, VIC, 3199 Australia		
ARTG Start Date	6/02/2018		
Product Category	Medical Device Class IIB		
Status	Active		
Approval Area	Medical Devices		
Products			
1 . Medical device cleaning/disinfecting wipe			
Product Type	Single Device Product	Effective Date	6/02/2018
GMDN	58077 Medical device cleaning/disinfecting wipe		
Intended Purpose	Low level Instrument Grade Disinfectant with wide spectrum antimicrobial activity including MRSA and VRE, Acinetobacter (DR) and Klebsiella (CRE), virucidal activity against SARS-CoV-2 (COVID-19), Norovirus, Influenza (H1N1) and fungicidal activity. Effective on surfaces.		

Australian Government Department of Health Therapeutic Goods Administration			
Public Summary			
Summary for ARTG Entry:	299351 GAMA Healthcare Australia Pty Ltd - Medical device cleaning/disinfecting wipe		
ARTG entry for	Medical Device Included Class IIB		
Sponsor	GAMA Healthcare Australia Pty Ltd		
Postal Address	1/395 Nepean Highway, Frankston, VIC, 3199 Australia		
ARTG Start Date	6/02/2018		
Product Category	Medical Device Class IIB		
Status	Active		
Approval Area	Medical Devices		
Conditions			
- The inclusion of the kind of device in the ARTG is subject to compliance with all conditions placed or imposed on the ARTG entry. Refer Part 4-5, Division 2 (Conditions) of the Therapeutic Goods Act 1989 and Part 5, Division 5.2 (Conditions) of the Therapeutic Goods (Medical Devices) Regulations 2002 for relevant information. - Breaching conditions of the inclusion related to the device of the kind may lead to suspension or cancellation of the ARTG entry, may be a criminal offence, and civil penalties may apply.			
Manufacturers			
Name	Address		
Gama Healthoare Ltd	2 Regal Way . Watford, WD24 4YJ United Kingdom		
Products			
1 . Medical device cleaning/disinfecting wipe			
Product Type	Single Device Product	Effective Date	6/02/2018
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Specific Conditions			
No Specific Conditions included on Record			
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Public Summary

Choosing a disinfectant

Ease of Use

- ❖ Easy to access
- ❖ Product at point of care
- ❖ Ready to use – no mixing
- ❖ 2 in 1 formula



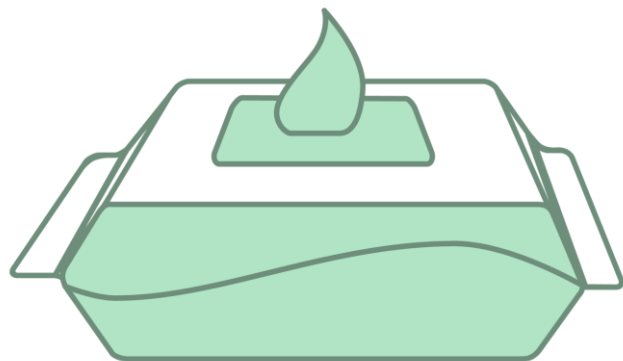
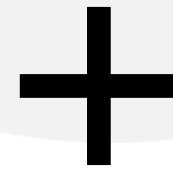
Choosing a disinfectant

Ease of use

2 step clean VS 2 in 1 step clean

A detergent clean should always precede disinfection because the presence of soil will impede disinfectant activity

A 2-step clean, involves a physical clean using detergent solution followed by use of a disinfectant



2-in-1 clean uses a formula containing both a detergent and disinfectant to clean & disinfect in one process

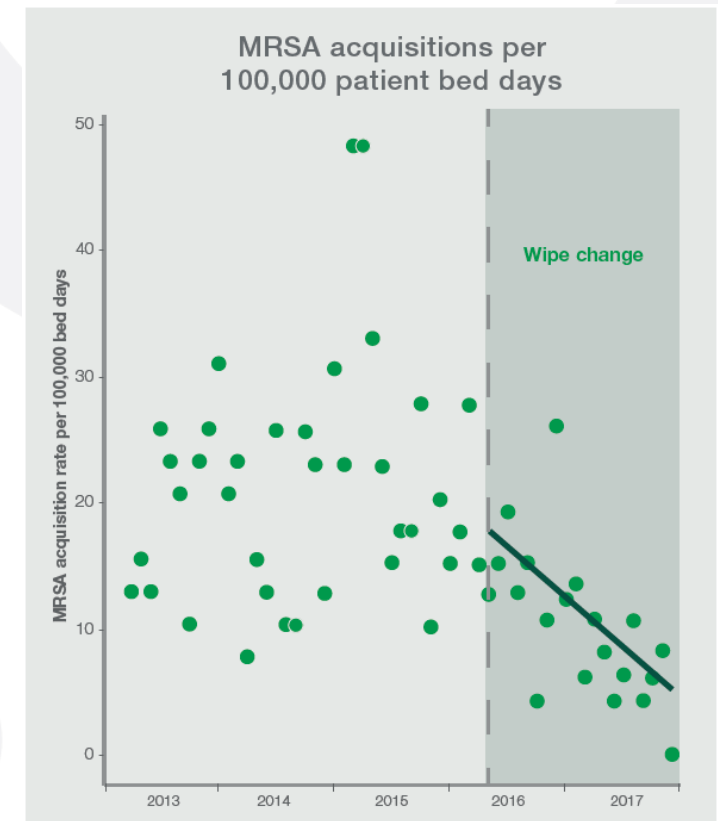
Choosing a disinfectant

Ease of use

Wiping out MRSA:

Effect of introducing a universal disinfection wipe in a large UK teaching hospital

- ❑ A two-stage cleaning process - a detergent wipe followed by alcohol disinfection, was replaced by Clinell Universal — a two in one step process.
- ❑ MRSA acquisitions across the whole organisation fell by **55%**
- ❑ There was a continuing and consistent reduction, ↓ 6.3% monthly
- ❑ Additional operational benefits such as time saved and reduced stock storage requirements.

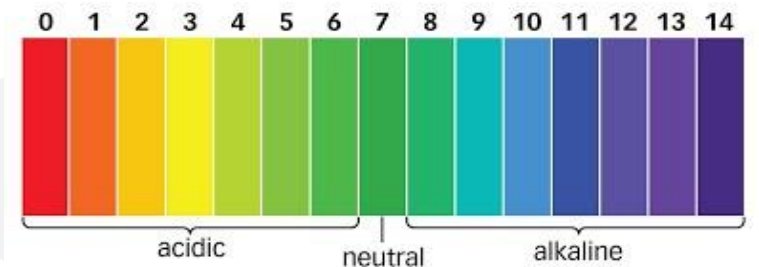


Choosing a disinfectant

Compatibility & pH

Look for a disinfectant compatible with commonly cleaned surfaces and equipment within your facility

- What is the active ingredient?
- What surfaces are not compatible?
- What is the pH?
- Does the manufacturer have claims to be safe to use on specific equipment e.g.: medical equipment



Choosing a disinfectant

Training & support



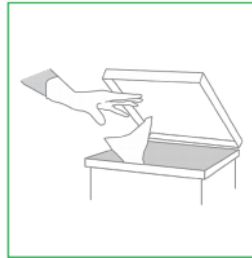
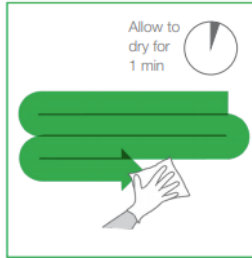
Five principles of cleaning video

NEW

The Five Principles of Cleaning

- 1. Wash hands
- 2. Use disinfectant
- 3. Wipe in an 'S' pattern
- 4. Allow to dry
- 5. Clean up

Wipe in an 'S' shaped pattern



Choosing a disinfectant

Training & support

A multimodal intervention, focusing on optimising product use, technique, staff training, auditing with feedback, and communication, for routine cleaning

'The REACH cleaning bundle was successful at improving cleaning thoroughness and showed great promise in reducing vancomycin-resistant enterococci Infections'



Auditing 'clean'



An evaluation used to assess, evaluate and improve patient care in a systematic way

Audits of environmental cleanliness can also facilitate education programs and motivate staff to strive for improvements in routine cleaning practices

Auditing clean

Principles of auditing

- ❑ Who should audit
- ❑ When to audit
- ❑ Where to audit
- ❑ Frequency of audits
- ❑ How to audit
- ❑ What surfaces to audit
- ❑ What to do with audit results

**AUSTRALIAN COMMISSION
ON SAFETY AND QUALITY IN HEALTH CARE**

Principles of environmental cleaning: auditing August 2020

Background Environmental cleaning is an important strategy for reducing the transmission of pathogenic organisms and preventing healthcare-associated infections in healthcare settings.¹ The role of environmental cleaning is to reduce the number of infectious agents that may be present on surfaces and minimise the risk of transfer of microorganisms from one person/object to another, thereby reducing the risk of infection.²

Environmental cleaning is a key component of standard precautions; the first-line in infection prevention and control in the healthcare environment.³ These work practices are recommended for the treatment and care of all patients. The importance of environmental cleaning and decontamination is enhanced when these processes are used as part of transmission-based precautions and outbreak management.

Environmental cleaning should be considered as a key part of a comprehensive infection prevention program in hospitals, with programs put in place to support good cleaning performance and should include strategies to optimise product use, technique, audit and feedback, education of cleaners and communication.⁴ The National Safety and Quality Health Service Standards⁵ require health service organisations to have processes in place to maintain a clean and hygienic environment, in line with the current edition of the Australian Guidelines for the Prevention and Control of the Infection in Healthcare, and jurisdictional requirements, that:

- a. Respond to environmental risks, such as local outbreaks and pandemics
- b. Require cleaning and disinfection at recommended cleaning frequencies
- c. Include workforce training in the appropriate use of specialised personal protective equipment.

Environmental cleaning should be considered as a key part of a hospital's comprehensive infection prevention program. Programs should support high performance cleaning and include strategies to optimise product use, cleaning technique, audit and feedback, education of cleaners and communication. To optimise cleaning effectiveness it is vital to monitor cleaning performance and provide objective feedback to cleaning staff. Auditing of environmental cleaning is about checking that environmental cleaning is done at a high standard to prevent the onset of healthcare-associated infections, thereby ensuring patient safety and good patient outcomes. Audits should be reported back to cleaning staff so that any areas of non-compliance, and their role in improving cleaning practice, can be considered and addressed.⁶

This document outlines the principles of auditing of environmental cleaning in acute care settings. These principles have been adapted from current literature and resources produced by NSW Health⁴, the Tasmanian Department of Health and Human Services⁷, and SA Health.²

Adoption of these principles in other healthcare settings should be assessed for suitability at the organisational level.

Facilities should develop and implement an auditing plan/protocol in collaboration with its infection prevention and control service that covers the local application of the seven key principles outlined in this document. Facilities with outsourced cleaning services should include the development and implementation of an auditing plan/protocol as part of contract negotiations.

Key Principles

1. Who should audit

- Individuals who are responsible for auditing should:
 - Be trained in auditing of environmental cleaning
 - Be provided with an orientation of the area that they are auditing
 - Not be from the area that they are auditing
 - Have a thorough knowledge of cleaning standards and the cleaning processes required in the clinical area that they are auditing
- The organisation should assess the need to use auditors that are external to the organisations.

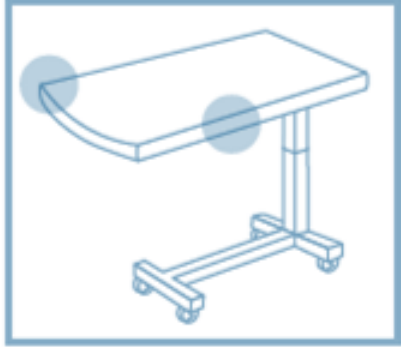
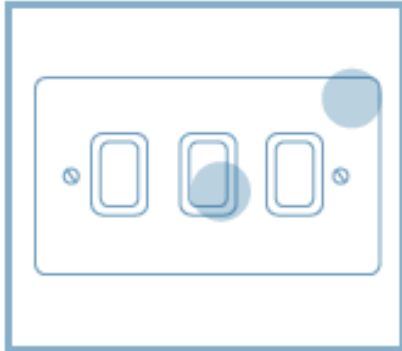
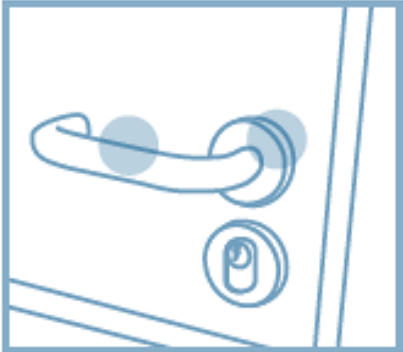
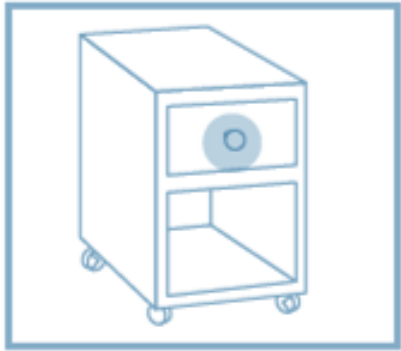
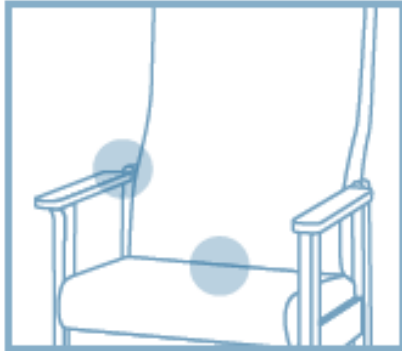
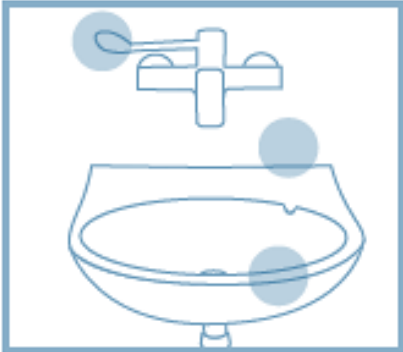
2. When to audit

- Auditing of environmental cleaning in patient care areas should include assessment of both routine cleaning and discharge/terminal cleaning
- Auditing of environmental cleaning in non-patient care areas should be audited by visual inspection at least annually
- A risk-based approach should be taken in regards to all aspects of the audit process.

Australian Commission on Safety and Quality in Health Care Principles of environmental cleaning: auditing 1

Auditing clean

Principles of auditing



Clinell Evaluclean
Audit Form - Shared Equipment



Maker: _____ Date: _____ Time: _____
 Reviewer: _____ Date: _____ Time: _____

Ward: _____ Planned: Outbreak:

Pre-audit Responsibility	Item marked	Audit review				
		Room No	Room No	Room No	Room No	Room No
1		Ass/No	Ass/No	Ass/No	Ass/No	Ass/No
	<input type="checkbox"/> Present	<input type="checkbox"/> Present	<input type="checkbox"/> Present	<input type="checkbox"/> Present	<input type="checkbox"/> Present	<input type="checkbox"/> Present
	<input type="checkbox"/> Partial <input type="checkbox"/> Removed	<input type="checkbox"/> Partial <input type="checkbox"/> Removed	<input type="checkbox"/> Partial <input type="checkbox"/> Removed	<input type="checkbox"/> Partial <input type="checkbox"/> Removed	<input type="checkbox"/> Partial <input type="checkbox"/> Removed	<input type="checkbox"/> Partial <input type="checkbox"/> Removed
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7		Ass/No	Ass/No	Ass/No	Ass/No	Ass/No
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Removed (pass):		/	/	/	/	/
Partial (fail):		/	/	/	/	/
Present (fail):		/	/	/	/	/
Cleaning schedule signed:		Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Overall Compliance (pass/fail %)		%	%	%	%	%

Auditing clean

Methods for auditing 'clean'

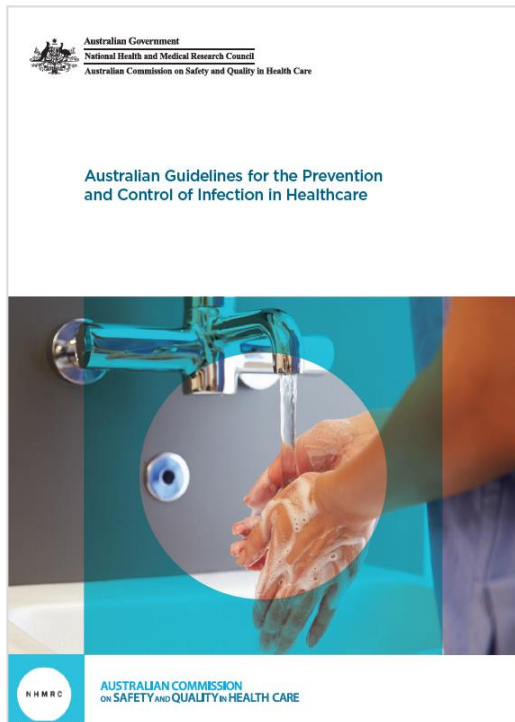


Table 5. Methods for evaluating environmental cleanliness in healthcare facilities^[101]

Type	Method	Definition	Advantages	Disadvantages
Process Testing	Visual Inspection	An individual trained in the auditing of cleaning inspects an area to assess the level of cleanliness. Primary method used in healthcare facilities.	Can detect obvious soiling of the environment. Most cost-effective method and most rapid for detecting major cleaning issues.	Cannot detect microorganisms that are invisible to the naked eye.
	Fluorescent gel marker	An invisible gel that can only be detected with UV light is applied to surfaces. The effectiveness of cleaning processes can be determined by shining UV light to determine if the gel has been adequately	Can allow for an efficient and timely cleaning evaluation on a large scale.	Does not assess environmental contamination or bioburden.
Outcome testing	ATP bioluminescence	A swab of a surface is taken which is placed into a detection device that will catalyse a reaction with ATP. Testing the surface for ATP measures the amount of organic residue on a surface.	ATP testing provides rapid results and requires no specific laboratory training to be	The test can produce false positives, and cannot identify the source of the ATP. The residue of some cleaning products may alter the results.
	Microbiological testing	Involves swabbing, dipslides, air sampling or settle plates to detect the presence of a specific microbiological organism on a surface or object.	Can provide an accurate indication of infection risk from the environment.	Expensive, labour intensive, requires specific expertise and access to a microbiology laboratory. Only recommended in the management of specific situations such as an outbreak or an unidentified cause of infections.

Auditing clean

Visual assessment

Visual assessment is the most frequently used method for auditing environmental cleanliness

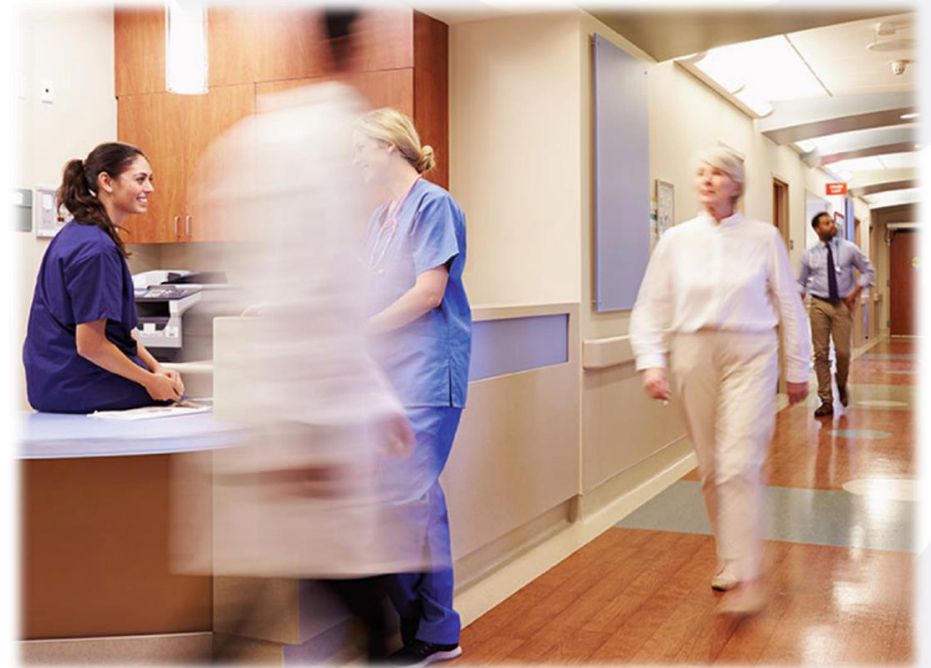
It measures the appearance of an item or surface against a set checklist standards.

Advantages:

Can detect obvious issues with the environment. Most rapid method of identifying cleaning issues.

Disadvantages:

Cannot detect microorganisms that are invisible to the naked eye



Auditing clean

Fluorescent Gel Marker

Fluorescent gel dots are placed on frequently touched surfaces.

The effectiveness of cleaning can be determined by shining a UV light to confirm if the gel has been removed.

Advantages:

Can allow for a very visual, efficient and timely cleaning evaluation of a large scale

Affordable

Disadvantages:

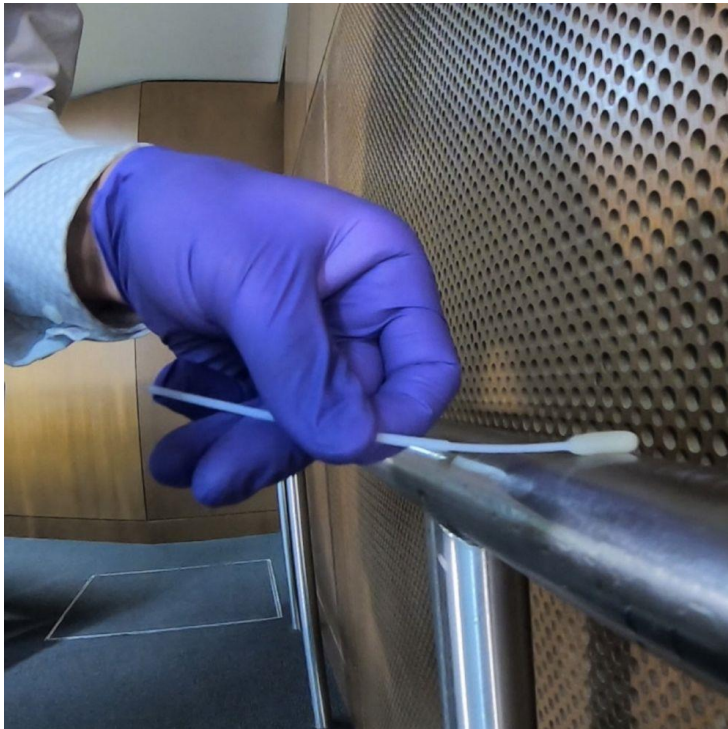
Does not assess environmental contamination or bioburden



Auditing clean

Adenosine triphosphate (ATP) bioluminescence

Testing the surface for ATP measures the amount of organic residue on a surface



A swab of a surface is taken which is placed into a detection device



Advantages:

provides rapid results and requires no specific laboratory training to be undertaken.

Disadvantages:

The test can produce false positives and cannot identify the source of ATP.

The residue of some cleaning products may alter the results

Inconsistent reading between machines

More costly than fluorescent marking.

Microbiological sampling



Involves swabbing surfaces, air sampling or settle plates to detect the presence of a specific Microbiological organism on a surface or object



Advantages:

Can provide an accurate indication of infection risk from the environment.

Disadvantages

Expensive, labour intensive, requires specific expertise and access to a microbiology laboratory. Only recommended in the management of specific situations such as an outbreak or an unidentified cause of infections.

Choosing a disinfectant, and auditing 'clean'

Useful sites

[Australian Guidelines for the Prevention and Control of Infection in Healthcare \(nhmrc.gov.au\)](http://nhmrc.gov.au)

NSW Clinical Excellence Commission Environmental Cleaning Audit Tool –
<http://www.cec.health.nsw.gov.au/patient-safety-programs/assurance-governance/healthcare-associated-infections/environment-cleaning>

CDC Environmental Cleaning Evaluation Worksheet –
<https://www.cdc.gov/hai/toolkits/evaluating-environmental-cleaning.html>

Department of Health and Human Services, Tasmania Environmental Assessment Cleaning Protocol -
http://www.dhhs.tas.gov.au/publichealth/tasmanian_infection_prevention_and_control_unit/evaluating_environmental_cleanliness

https://www.safetyandquality.gov.au/sites/default/files/2020-09/principles_of_environmental_cleaning_auditing_-_august_2020.pdf

<https://www.health.gov.au/resources/publications/coronavirus-covid-19-environmental-cleaning-and-disinfection-principles-for-health-and-residential-care-facilities>

<https://www.safeworkaustralia.gov.au/covid-19-information-workplaces/industry-information/general-industry-information/cleaning>



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