



Problem solved | La solution

Medpro Defense  
Disposable  
Antimicrobial  
Curtains

Training Presentation  
January 2023



A simple change makes  
a big difference

- Fewer injuries
- Potential cost savings
- Better infection control
- Easier curtain management
- Attractive environment
- Less chemicals released in the environment

A goal of infection control:  
Whatever is there, get rid of it.

- Curtains are quickly contaminated
  - Within a week of hanging extensive contamination
- MPD Antimicrobial Curtains help reduce spread of germs
  - Constant antimicrobial action against wide variety of species
  - Compatible with the Nocospray system

Table 1<sup>9</sup>

Number of distinct morphotypes of bacteria isolated from imprints of health care workers' finger pads at baseline, after use of alcohol handrub, and after handling curtains, by species.

Species	Baseline	After hand hygiene	After handling curtains
<i>Bacillus</i> spp	35	34	37
<i>Micrococcus</i> spp			
<i>Micrococcus luteus</i>	18	8	9
<i>Staphylococcus</i> spp			
Coagulase negative	51	18	29
<i>Staphylococcus aureus</i>	7*	0	2*
<i>Streptococcus</i> spp			
<i>Streptococcus pneumoniae</i>	1	1	0
Other <i>Streptococcus</i> spp	7	0	0
Other gram-positive bacilli <sup>†</sup>	3	2	2
Gram-negative bacilli <sup>†</sup>	6	3	2
Gram-negative cocci <sup>‡</sup>	2	1	0
Total (n)	130	57	81


\*One imprint with methicillin-resistant *S aureus* (baseline). The 2 postcurtain isolates of *S aureus* were from patients who also had *S aureus* on their hands at baseline. <sup>†</sup>*Bifidobacterium* spp (baseline), *LisERIA seeligeri* (baseline, after hand hygiene), *Microbacterium flavescens* (baseline), and *Paenibacillus* spp (after hand hygiene, after touching curtain). <sup>‡</sup>*Acinetobacter ursingii* (baseline), *Aeromonas sobria* (baseline), *Moraxella osloensis* (baseline, after hand hygiene, after touching curtain), and *Sphingomonas spiritivorum* (baseline, after hand hygiene). <sup>§</sup>*Neisseria subflava* (baseline, after hand hygiene).

3. PIDAC Update: Revised Environmental Cleaning Document. Matthew P. Muller, MD, PhD, FRCPC Medical Director, Infection Prevention and Control, St. Michael's Hospital. Chair, PIDAC Infection Control Committee. Public Health Ontario
8. Ohl M, Schweizer M, Graham M, Heilmann K, Boyken L, Diekema D. Hospital privacy curtains are frequently and rapidly contaminated with potentially pathogenic bacteria. *Am J Infect Control* 2012 December; 40(10): 904-6. <https://www.ncbi.nlm.nih.gov/pubmed/22464039>
9. Larocque M, Carver S, Bertrand A, McGeer A, Mcleod S, Borgundvaag B, Acquisition of bacteria on health care workers' hands after contact with patient privacy curtains. *Am J Infect Control* 2016; 44:1385-6

## MPD Antimicrobial activity

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- Minimum 3 log reduction over 24 hr. period
- Methodology: ISO 20743:2013, Textiles – Determination of antibacterial activity of textile products

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- *Klebsiella pneumoniae (K. pneumoniae)*
  - *Escherichia coli (E. coli)*
  - *Carbapenem-resistant Enterobacteriaceae (CRE) \**
  - *Vancomycin-resistant Enterococcus faecalis (VRE)*
  - *Methicillin-resistant Staphylococcus aureus bacteria (MRSA)*
  - *Staphylococcus aureus (Staph. aureus)*
  - *Clostridium (Clostridiodes) difficile (vegetative)*

# Reduced cost, injuries and time for terminal clean

- Outcome of 6-month hospital trial
- Hypothesis:
  - Leaving disposable antimicrobial curtains in place for 6 months would not negatively impact hospital-acquired infection (HAI) rates.
- Methods:
  - 650+bed acute care hospital in southern Ontario
  - 80 curtains were installed in multi-patient rooms for 6 months
  - Curtains changed if damaged, heavily soiled or for hospital C.diff protocol.
- Results:
  - 9 curtains were changed
  - No negative impact on HAI rates

## Results

Key indicators were compared for the test period (April 2018 to September 2018) with the previous period (September 2017 to March 2018).

1

### Laundry costs

From Sept. 2017 to March 2018 Using regular curtains	From April 2018 to Sept. 2018 Using MPD Antimicrobial disposable curtains	Saving (\$)	Saving (%)
\$1,100 bi-weekly	\$800 bi-weekly	\$300	27%

### Curtain-related workplace injuries

From Sept. 2017 to March 2018 Using regular curtains	From April 2018 to Sept. 2018 Using MPD Antimicrobial disposable curtains
5	1

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### Terminal cleaning time per patient bed (minutes)

From Sept. 2017 to March 2018 Using regular curtains	From April 2018 to Sept. 2018 Using MPD Antimicrobial disposable curtains	Saving (min)	Saving (%)
30	20	10	33%

## Staff opinion: Easier to manage

- Staff working in the trial zone were asked to complete a Likert-type scale with a range from 1 to 6
  - One indicated Poor/Worse than re-usable curtains and 6 was Excellent/Improved

	Frequency	
	1 to 3 rating	5 & 6 rating
	Negative	Very positive
<b>Ease of management - overall</b>	1	10
<b>Installation</b>	1	9
<b>Laundry / disposal</b>	0	11
<b>Frequency of attention</b>	0	11
<b>Time spent</b>	1	10
<b>Perception - Overall</b>	0	11

## Staff opinion: Better patient environment

- Staff unanimously agreed that the implementation of these antimicrobial disposable curtains had a positive effect on the overall look and feel of the patient environment

	Frequency	
	1 to 3 rating	5 & 6 rating
	Negative	Very positive
More attractive	0	10
Consistent	0	11
Look fresh	0	11
Reassuring	0	11
Professional	0	11
Patients feel better	0	11

# Frequently asked questions and tips

- Before you hang the curtain for the first time take a non-corrosive wipe and run it along the inner track to remove any build-up or detect any obstructions. If there is an obstruction remove it, repair it or if that is not possible arrange the hooks so that the frequency that the obstruction must be passed over, is limited.
- When using your existing hooks, use every second eyelet to make sure that the curtains are balanced and slide smoothly.
- If your hook is shallow discuss with your representative options to tighten the hook or include an O-ring.
- When moving the curtain hold the first two pleats together for more resistance. These curtains are lighter than traditional reusable curtains. If you hold only the edge and move as quickly as you do with a heavier reusable curtain, it may become dislodged from the hook. This will become natural with practice.



2

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Instructions and training manual

# ANTIMICROBIAL DISPOSABLE CURTAINS

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# Questions?

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- [www.amgmedical.com](http://www.amgmedical.com)
- Customer service 1-866-518-6099
- Your AMG Medical representative 1-800-361-2210

