

**Swish** Experts in complete  
cleaning solutions



Infection Prevention & Control  
In The Recreation Facility Setting



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Before I had kids, I thought I had a great immune system, but it turns out I was just really good at staying away from the type of people who sneeze directly into your eyeballs while telling you a story.



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WELCOME  
AND  
A HUGE THANKS



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OUR GOAL FOR  
TODAY'S SESSION

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TAKE LEARNINGS FROM HERE



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AND APPLY THEM HERE



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## BEFORE WE GET STARTED...

- ✦ You Will Not Be The Same By The End of Today's Session
- ✦ Ever-Evolving Nature of IP&C
- ✦ There Is No "One-Size-Fits-All" Approach or "Magic Bullets"
- ✦ Dialogue > Monologue
- ✦ Leave your phone **ON**

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## THE CASE FOR MORE IP&C AWARENESS IN OUR EVERYDAY LIVES

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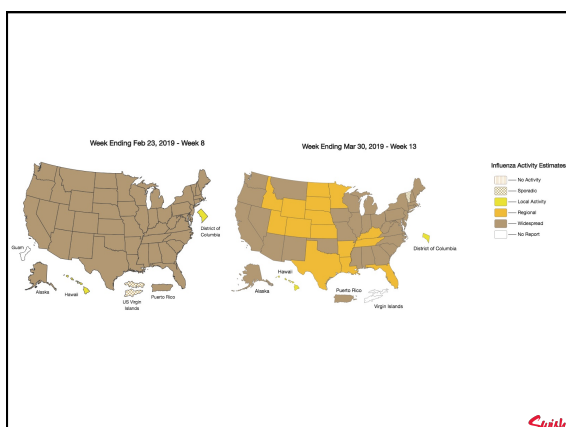
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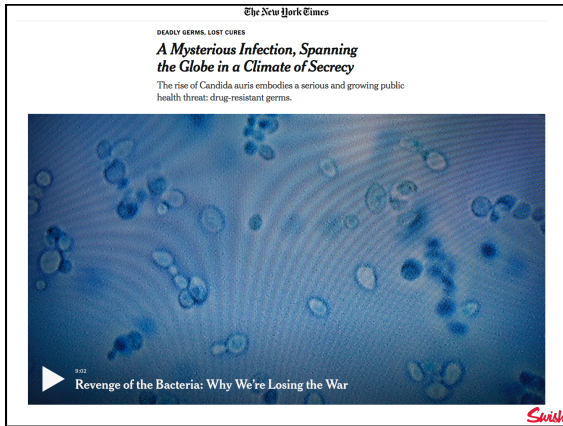
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**WE ARE LOSING A SILENT WAR**

- ✦ HAI = Healthcare Associated Infection
  - ✦ 220K Infections, 8K Deaths Annually
  - ✦ 5 - 20% chance of infection in a Canadian Hospital
- ✦ Superbugs quickly moving outside the healthcare environment
  - ✦ VRE, MRSA, C.Diff
  - ✦ 10 M deaths / Year by 2050 If No Action Taken
- ✦ Antibiotics In Food Chain & Meds Suspected
- ✦ Overuse/Misuse of Cleaning Compounds ?

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**THE CASE FOR  
HEIGHTENED IP&C  
AWARENESS IN  
THE REC FACILITY SETTING**

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- ✓Public Spaces With Heavy Traffic
- ✓Regular Bodily Fluid Transmission
- ✓Plentiful Reservoirs
- ✓Plentiful Susceptible Hosts
- ✓Subject To Unprecedented Public Opinion

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## ON THE FRONT LINES



- ✦Little Training
- ✦Low(est) Pay
- ✦Underappreciated
- ✦Complex Roles

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OUR FOCUS FOR TODAY'S  
SESSION

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## OUR FOCUS TODAY

- ✦ Understand Basics of IP & C
- ✦ Adaptation To Rec Facility Environment
  - ✦ Product Evaluation & Selection Criteria
  - ✦ Process Determination
- ✦ Emerging Trends & Technologies
  - ✦ Products
  - ✦ Auditing Tools
- ✦ Easy & Impactful Implementations

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## THE BASICS

### CHAIN OF TRANSMISSION

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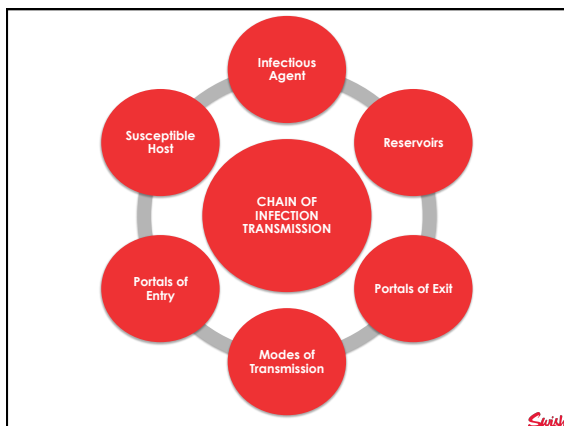
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<b>1) INFECTIOUS AGENT</b> - Not all microorganisms (aka "microbes") are harmful - Microbes that cause infection are known as pathogens	<ul style="list-style-type: none"> <li>• Bacteria (E. Coli, MRSA)</li> <li>• Virus (Cold or Flu)</li> <li>• Fungi (Athlete's Foot)</li> </ul>
<b>2) RESERVOIRS</b> - Where microbes live & grow	<ul style="list-style-type: none"> <li>• People</li> <li>• Surfaces &amp; Objects</li> <li>• Food &amp; Water</li> </ul>
<b>3) PORTALS OF EXIT</b> - How pathogens leave a reservoir	<ul style="list-style-type: none"> <li>• Cut</li> <li>• Cough or Sneeze</li> <li>• Secretion or Excretion</li> </ul>
<b>4) MODE OF TRANSMISSION</b> - Pathogens rely on specific modes of transmission to move from a portal of exit to a portal of entry	<ul style="list-style-type: none"> <li>• Contact</li> <li>• Droplet</li> <li>• Airborne / Vapor</li> </ul>
<b>5) PORTALS OF ENTRY</b> - How pathogens enter a new host	<ul style="list-style-type: none"> <li>• Mucous membrane (eyes, nose, mouth)</li> <li>• Respiratory tract</li> <li>• GI tract</li> <li>• Broken Skin</li> </ul>
<b>6) SUSCEPTIBLE HOST</b> - We are all at risk of infection everyday - Some amongst us are more vulnerable and we have a responsibility to protect those at higher risk	<ul style="list-style-type: none"> <li>• Surgery</li> <li>• Oncology</li> <li>• Burns</li> <li>• Very Young / Very Old</li> <li>• Diabetes</li> <li>• Auto-immune diseases</li> </ul>

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**WHERE DO WE HAVE THE  
MOST LIKELY  
OPPORTUNITIES TO BREAK  
THE CHAIN ?**

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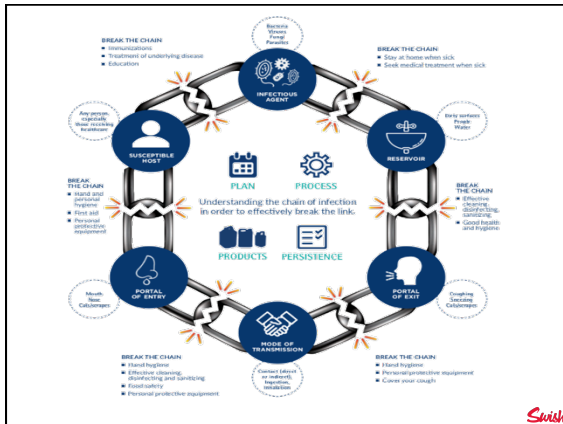
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**BREAKING THE CHAIN  
PROVES COMPLICATED  
FOR SEVERAL REASONS**

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**1) WE SUCK AT HAND HYGIENE**



✦ Estimate That 80% of Infections Are Spread By Hands

✦ And Yet...

- ✦ 58% of Females (28% with soap)
- ✦ 48% of Males (8% with soap)

✦ Minimum 20 Seconds

✦ Unfinished Business



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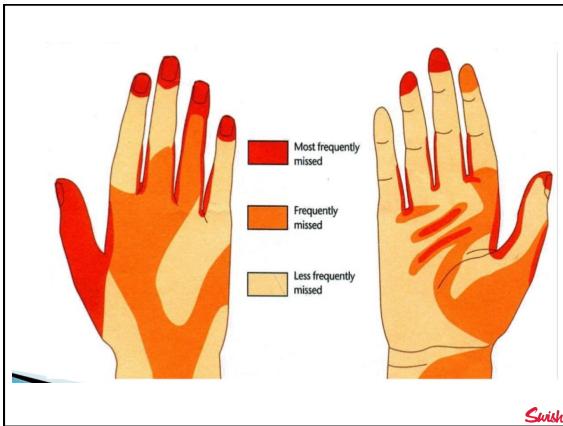
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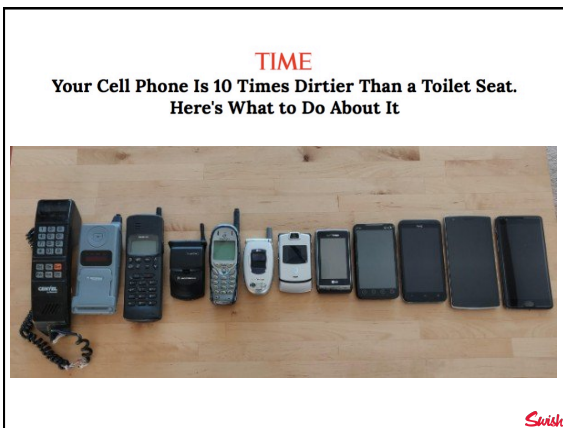
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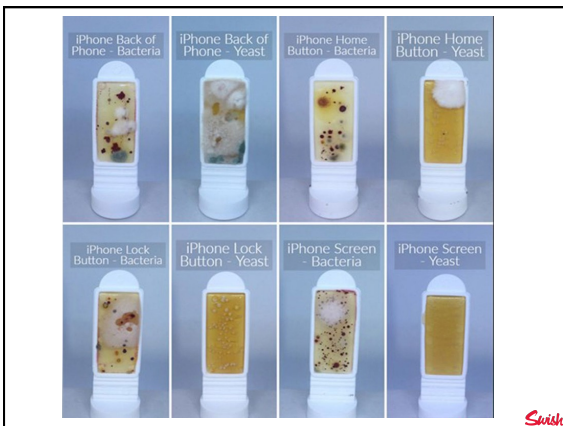
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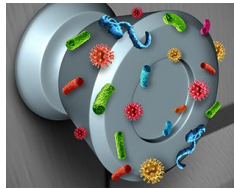
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## 2) A FIERCE & RESILIENT ENEMY

- ✦ BILLIONS of Norovirus Particles In A Single Stool Sample
- ✦ SNEEZING Can Launch Mucous @ 100 mph and Up To 30 Ft Away
- ✦ FLU Virus Has Been Observed To Make Hosts More Social In Early Stages of Incubation
- ✦ Survival Times Drastically Influenced By: Nature of Organism, Surface Material, Temp, Soil Load, Humidity, Temperature



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Type of virus	Duration of persistence (range)	Type of bacterium	Duration of persistence (range)
Adenovirus	7 days – 3 months	Acinetobacter spp.	3 days to 5 months
Astrovirus	7 – 90 days	Bordetella pertussis	3 – 5 days
Coronavirus	3 hours	Campylobacter jejuni	up to 6 days
SARS associated virus	72 – 96 hours	Clostridium difficile (spores)	5 months
Coxsackie virus	> 2 weeks	Chlamydia pneumoniae, C. trachomatis	≤ 30 hours
Cytomegalovirus	8 hours	Chlamydia psittaci	15 days
Echovirus	7 days	Corynebacterium diphtheriae	7 days – 6 months
HAV	2 hours – 60 days	Corynebacterium pseudotuberculosis	1–8 days
HBV	> 1 week	Escherichia coli	1.5 hours – 16 months
HIV	> 7 days	Enterococcus spp. including VRE and VSE	5 days – 4 months
Herpes simplex virus, type 1 and 2	4.5 hours – 8 weeks	Haemophilus influenzae	12 days
Influenza virus	1 – 2 days	Helicobacter pylori	≤ 90 minutes
Norovirus and feline calici virus (FCV)	8 hours – 7 days	Klebsiella spp.	2 hours to > 30 months
Papillomavirus 16	> 7 days	Listeria spp.	1 day – months
Papovavirus	8 days	Mycobacterium bovis	> 2 months
Parvovirus	> 1 year	Mycobacterium tuberculosis	1 day – 4 months
Poliovirus type 1	4 hours – < 8 days	Neisseria gonorrhoeae	1 – 3 days
Poliovirus type 2	1 day – 8 weeks	Proteus vulgaris	1 – 2 days
Pseudorabies virus	≥ 7 days	Pseudomonas aeruginosa	6 hours – 16 months; on dry floor: 5 weeks
Respiratory syncytial virus	up to 6 hours	Salmonella typhi	6 hours – 4 weeks
Rhinovirus	2 hours – 7 days	Salmonella typhimurium	10 days – 42 years
Rotavirus	6 – 60 days	Salmonella spp.	1 day
Vacciniavirus	3 weeks – > 20 weeks	Serratia marcescens	3 days – 2 months; on dry floor: 5 weeks
		Shigella spp.	2 days – 5 months
		Staphylococcus aureus, including MRSA	7 days – 7 months
		Streptococcus pneumoniae	1 – 20 days
		Streptococcus pyogenes	3 days – 6.5 months
		Vibrio cholerae	1 – 7 days

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CLASS OF MICROORGANISM	MOST RESISTANT	MINIMUM LEVEL OF REPROCESSING REQUIRED TO KILL MICROORGANISM
Prions (Creutzfeldt-Jakob disease (CJD) and variant CJD)	↑	Special Methods Required
Bacterial spores (e.g., <i>Clostridium difficile</i> ) Protozoa with cysts (e.g., <i>Giardia</i> , <i>Cryptosporidium</i> )	↑	Sterilization
Mycobacteria (e.g., TB)	↑	High-level Disinfection
Non-lipid or small viruses (e.g., norovirus, coxsackie)	↑	High-level Disinfection
Fungi (e.g., <i>Candida</i> , <i>Aspergillus</i> )	↑	High-level Disinfection, some Low-level Disinfectants
Lipid or medium sized virus (e.g., herpes, rhinovirus, influenza, HIV, hepatitis B/C)	↑	Low-level Disinfection
Vegetative bacteria (e.g., <i>Staphylococcus</i> , <i>Pseudomonas</i> )	↑	Low-level Disinfection
	LEAST RESISTANT	

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## THE BASICS

## HOW TO FIGHT

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## ONE POSSIBLE APPROACH....

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**A SLIGHTLY MORE PRUDENT APPROACH...**

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**EXPERIENCE FROM THE FIELD**

- ✦ Thorough Cleaning ➤ "At-Best" Disinfection
- ✦ Products & Process Are Very Site Specific
- ✦ Cleaning, Sanitizing and Disinfecting Are Not The Same Thing !

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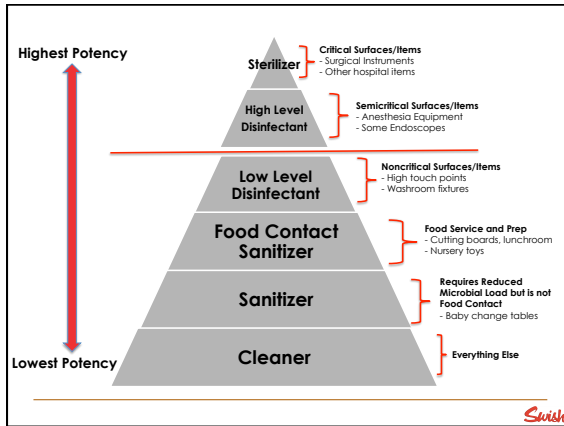
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<b>STERILIZATION</b> <b>ELIMINATES</b> & destroys all microbes - Carried out in health-care facilities using specialized equipment		<ul style="list-style-type: none"> <li>Surgical tools &amp; instruments that enter the body</li> </ul>
<b>DISINFECTING</b> <b>INACTIVATES</b> microbes on surfaces & objects - Carried out using chemicals and/or equipment in a prescribed manner to lower the risk of transmission		<ul style="list-style-type: none"> <li>Quat/Bleach/ H<sub>2</sub>O<sub>2</sub></li> <li>Steam / UV</li> </ul>
<b>SANITIZING</b> <b>REDUCES</b> microbe levels on surfaces & objects to a safe level as deemed by public health - Carried out using chemicals and/or equipment in a prescribed manner to lower the risk of transmission		<ul style="list-style-type: none"> <li>Quat/Bleach</li> <li>Hand Sanitizer (Alc)</li> <li>High-Temp Dishwashers</li> </ul>
<b>CLEANING</b> <b>REMOVES</b> microbes & soil from surfaces & objects - - Carried out using detergents and mechanical action to physically remove microbes from surfaces. - Does not necessarily kill germs, but is a critical step in all IP&C practice		<ul style="list-style-type: none"> <li>Cleaners</li> <li>Soaps</li> <li>Microfibre Tools</li> </ul>

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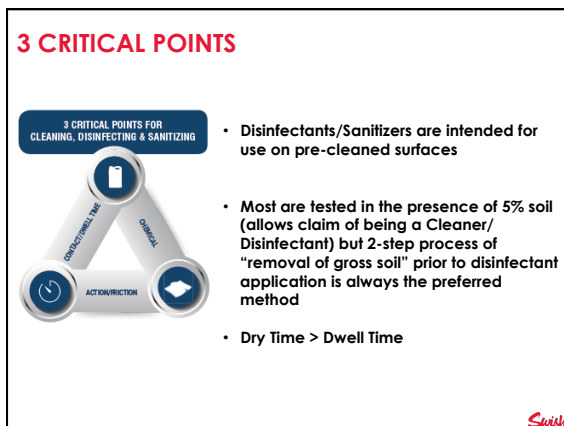
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## RISK STRATIFICATION MATRIX TO DETERMINE CLEANING FREQUENCIES

LOW RISK SURFACE / MODERATE RISK SURFACE / HIGH RISK SURFACE

### ✦ Contact Frequency of Surface

- ✦ High Touch (door handles, push panels)
- ✦ Low Touch (floors, walls, mirrors)

### ✦ Probability of Contamination With Pathogens

- ✦ Heavy (Toilet, Change Table)
- ✦ Moderate (Sinks, Counters)
- ✦ Light (Floor)

### ✦ Vulnerability of Population

- ✦ Seniors Room
- ✦ Childrens Area
- ✦ Exceptional Needs
- ✦ Immuno-Compromised (oncology, burn, auto-immune)

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## MATRIX SCORING TO DETERMINE FREQUENCY AND PROCESS(ES)

For each functional area or department, the frequency of cleaning is based on the factors listed in the boxes above. A score is given if the factors are present, and the frequency of cleaning is based on the total score as derived in the following matrix:

Table 13: Risk Stratification Scores for High-Touch Surfaces (Score for Potential for Exposure = 3)

Probability of contamination with pathogens	More susceptible population (score = 1)	Less susceptible population (score = 0)
Heavy (score = 3)	7 (3+3+1)	6 (3+3+0)
Moderate (score = 2)	6 (3+2+1)	5 (3+2+0)
Light (score = 1)	5 (3+1+1)	4 (3+1+0)

Table 14: Risk Stratification Scores for Low-Touch Surfaces (Score for Potential for Exposure = 1)

Probability of contamination with pathogens	More susceptible population (score = 1)	Less susceptible population (score = 0)
Heavy (score = 3)	5 (1+3+1)	4 (1+3+0)
Moderate (score = 2)	4 (1+2+1)	3 (1+2+0)
Light (score = 1)	3 (1+1+1)	2 (1+1+0)

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## BUILDING OF S.O.P's & WORKLOADING

Facility Cleaning & Disinfecting Checklist

Completed	Not Completed	Area	Task
		GENERAL FACILITIES	Use a neutral detergent and disinfectant solution to clean and disinfect all hard surfaces, including:
			Door knobs/handles
			Control buttons
			Sinks & faucets
			Countertops
			Window sills
			Light switches
			Equipment controls
			Phones and fax machine handles
			Vending machines
			Other items
			Explain proper use of cleaning and disinfection procedures to all employees and encourage all employees to sanitize surfaces that are touched frequently.
			Sanitize high touch surfaces
			Sanitize high touch surfaces
			Sanitize high touch surfaces
		Place cleaning solution or soap in company vehicles with a reminder to wipe down after following after each use.	
		Exterior surfaces	
		Other surfaces	
		BATHROOMS	When it is time to purchase or replace cleaning supplies, consider including hand sanitizer.
			Hand sanitizer
			Toilet brushes
			Other bathroom supplies

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## APPLICATION TO A RECREATIONAL FACILITY SETTING PRODUCT SELECTION

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## CONCERNS IN REC SETTING

### BACTERIA

- Salmonella
- Listeria
- E.Coli
- Chlamydia
- MRSA
- VRE
- CDiff

### VIRUS

- Respiratory (vapour)
  - COLD (rhino / corona)
  - FLU (Influenza)
- G.I. (fecal – oral)
  - Norovirus
  - Rotovirus
  - Hep A
  - Polio
- Bloodborne / Bodily Fluids
  - Hep B
  - HIV
  - CMV (Cytomegalo)
  - Herpes (HSV 1&2)

### FUNGI

- Athlete's Foot
- Molds

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## What's The Best Disinfectant?

Table 2. Properties of an ideal disinfectant

 Centers for Disease Control and Prevention  
CDC XAT: Saving Lives. Protecting People™

- Broad spectrum: should have a wide antimicrobial spectrum
- Fast acting: should produce a rapid kill
- Not affected by environmental factors: should be active in the presence of organic matter (e.g., blood, sputum, feces) and compatible with soaps, detergents, and other chemicals encountered in use
- Nontoxic: should not be harmful to the user or patient
- Surface compatibility: should not corrode instruments and metallic surfaces and should not cause the deterioration of cloth, rubber, plastics, and other materials
- Residual effect on treated surfaces: should leave an antimicrobial film on the treated surface
- Easy to use with clear label directions
- Odorless: should have a pleasant odor or no odor to facilitate its routine use
- Economical: should not be prohibitively high in cost
- Solubility: should be soluble in water
- Stability: should be stable in concentrate and use-dilution
- Cleaner: should have good cleaning properties
- Environmentally friendly: should not damage the environment on disposal

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- ✓ DIN Registered
- ✓ Broad Spectrum Kill Claims Specific To Your Requirements
- ✓ Dwell Time (Sanitize & Disinfect Claims?)
- ✓ Shelf Life (Concentrate & RTU)
- ✓ Dispensed / On-Site Production
- ✓ Verifiable Concentration Testing
- ✓ Cost Per Use
- ✓ Others ?

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## What's The Best Disinfectant?

Active Ingredient	Broad Spectrum	Fast Acting	No Interactions	Non Toxic	Corrosive	Residual Effect	Simple I.O.P	Odour	Cost	Water Soluble	Stable
Alcohol	X	✓	✓	✓/X	✓/X	X	✓	X	✓	✓	✓
Chlorine	✓	✓	X	✓/X	X	X	✓	X	✓	X	✓/X
Hydrogen Peroxide (Enhanced Action/Accelerated)	✓	✓	X	✓/X	X	X	✓	✓	X	✓	✓/X
Peracetic Acid	✓	✓	✓	✓/X	X	X	✓	X	✓	✓	X
Quaternary Ammonium Compounds	✓/X	✓/X	X	✓/X	✓	X	✓	✓	✓	✓	✓

Not listed: Iodophors, Formaldehyde, Glutaraldehyde, Ortho-phthalaldehyde (OPA), Phenolics, Acid/Base,

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Active Ingredient	Surface Interactions and Notes	
Alcohol	<ul style="list-style-type: none"> <li>Can dull and damage finished, painted or dyed surfaces</li> <li>Can have negative affect on polymer based materials               <ul style="list-style-type: none"> <li>Caution highly flammable</li> </ul> </li> <li>Volatile can cause issues with workers inhaling</li> </ul>	<ul style="list-style-type: none"> <li>No corrosive effects on most surfaces               <ul style="list-style-type: none"> <li>Volatile no residual</li> </ul> </li> </ul>
Chlorine	<ul style="list-style-type: none"> <li>Can dull and damage finished, painted or dyed surfaces</li> <li>Can damage metals especially soft metals               <ul style="list-style-type: none"> <li>Usually very high pH &gt;11.5</li> <li>Oxidizer</li> <li>Notable health and safety issues</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Go-to chemical for virtually every health unit</li> <li>Go-to chemical for anything new or unknown</li> <li>Term represent broad range of chemistries</li> </ul>
Hydrogen Peroxide (Enhanced Action/Accelerated)	<ul style="list-style-type: none"> <li>Can dull and damage finished, painted or dyed surfaces</li> <li>Can damage metals especially soft metals               <ul style="list-style-type: none"> <li>Often very low pH &lt;2.5</li> <li>Extremely powerful oxidizer</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Excellent marketing</li> <li>Good environmental story</li> <li>Term represent broad range of chemistries</li> </ul>
Peracetic Acid	<ul style="list-style-type: none"> <li>Can dull and damage finished, painted or dyed surfaces</li> <li>Can damage metals especially soft metals               <ul style="list-style-type: none"> <li>Acidic pH concentration dependent</li> <li>Unstable</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Effective in the presence of organic matter</li> <li>Effective at low temperatures</li> </ul>
Quaternary Ammonium Compounds	<ul style="list-style-type: none"> <li>Can be absorbed by certain wiping materials</li> <li>Recent studies question worker health and safety</li> </ul>	<ul style="list-style-type: none"> <li>Compatible with most finished surfaces (neutral versions)</li> <li>Term represent broad range of chemistries</li> </ul>

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# APPLICATION TO A RECREATIONAL FACILITY SETTING PROCESS DETERMINATION

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## BUILDING OF S.O.P's & WORKLOADING

### Facility Cleaning & Disinfecting Checklist

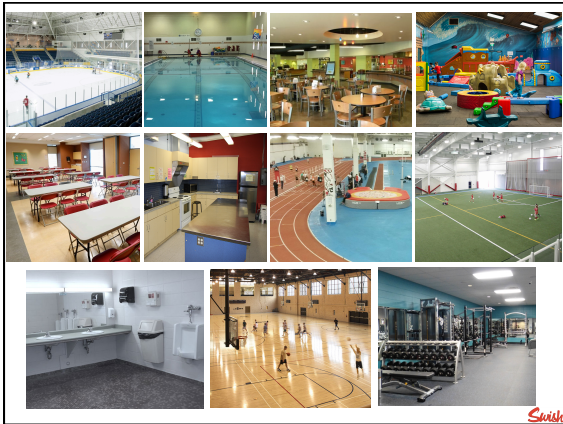
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## TRANSMISSION POINTS & RESERVOIRS TO CONSIDER IN YOUR FACILITIES ?



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## TRANSMISSION & RESERVOIRS

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## NEW & EMERGING TECHNOLOGIES



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### NEW SURFACE TECHNOLOGY

- ✦ Impregnated Materials
  - ✦ Silver Ions
- ✦ Surface Compounds
  - ✦ Copper & Copper Alloys
  - ✦ Silver & Silver Alloys
- ✦ Self Cleaning Materials
  - ✦ Nano-Septic



*Swish*

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### NEW PRODUCT TECHNOLOGY

- ✦ Robotics & IoT
  - ✦ Re-Allocation of Labour
  - ✦ Smart Dispensers
- ✦ UVC Light
  - ✦ Destroys Cell Wall, Disrupts DNA
  - ✦ Already Used In Water



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### NEW PRODUCT TECHNOLOGY

- ✦ Electrostatic
  - ✦ Negative Charge



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## NEW PRODUCT TECHNOLOGY

- ✦ New (ish) Chemistry
  - ✦ Aqueous Ozone Generation
  - ✦ Hypochlorous Acid
  - ✦ Steam

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## AUDITING TECHNOLOGY

- ✦ ATP Monitors
- ✦ Glo Germ
- ✦ Surface Imaging Technology



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SOME EASY PLACES TO  
START WHEN YOU GET  
BACK

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## EMERGENCY & OUTBREAK RESPONSE

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### DAILY CLEANING VS. OUTBREAK

#### GENERAL CLEANING

Clean / Remove  
Soil  
Disinfect Key Spots  
Preventative  
Reusables

#### OUTBREAK

Clean / Remove  
Soil  
Disinfect Everything  
Reactive  
Disposables

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### SAMPLE KIT CONTENTS



- Oxivir®
- 6 pairs of safety glasses
- 2 Pack Respirators
- 3 box glove
- 1 case MF cloth
- 1 case pads
- 4 coveralls (size L, XL, 2XL, 3XL)

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SIMPLIFY  
COLOUR CODE  
AUTOMATE

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SIMPLIFY

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COLOUR CODE

Microfibrils are tiny threads which are 10 times finer than silk, up to 30 times finer than cotton, 40 times finer than wool and 100 times finer than a human hair. Many microfibrils are woven together to create a single strand, more of which are then woven into yarn or textiles. When polyester and polyamide are combined and then put through a splitting process, microscopic channels are created to capture and hold debris. Polyester provides scrubbing properties. Polyamide allows for absorption and quick drying.

Typical combinations are 70 to 90% polyester and 10 to 30% polyamide.

Microfibre is finer than a human hair.

Microfibre fibres compared to other fibres.

Microfibre is designed to show both polypropylene and polyamide as well as the split.

Standard floors rely on the moisture and chemicals to hold dirt where microfibre actually holds particles without chemical abrasion, so it rinses clean. Since microfibre is a man-made material, it also will not provide a food source for bacteria and break down. This allows for longer useful life.

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### AUTOMATE



VS.



- Wet Floor = Slip Liability
- Dirty water after the first pass
- Repetitive motions = OH&S issues
- Productivity = 2100 sq. ft / hr

- Scrub & Dry in One Pass
- Clean Water / Dirty Water Separate
- Easy on operator = consistent clean
- Productivity = 15,000 sq. ft / hr



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## OTHER WAYS TO PLAY OUR PART

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**WAAAAAAAAAAAAASH HANDS**

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HAND HYGIENE MOMENTS		
Moment	Hand Sanitizer	Soap & Warm Water
When hands are visibly soiled	No	Yes
After contact with bodily fluids	Yes	Yes*
After cleaning procedures	Yes	Yes*
Before & after handling toys	Yes	Yes*
Before, during & after handling food	No	Yes
Enter/Leave School	Yes*	Yes
Before & after touching eyes, ears, nose & mouth	No	Yes
After using washroom	Yes	Yes*

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**Fist bumps spread fewer germs than handshakes, study says**

Fist bumping transfers about 90 per cent less bacteria than handshakes

Thompson Reuters Posted: Jul 28, 2014 2:10 PM ET | Last Updated: Jul 28, 2014 2:10 PM ET



U.S. President Barack Obama has continually opted for the fist bump instead of the rather traditional handshake. (Kevin Lamm/Getty/Reuters)

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60th ANNIVERSARY CALGARY PHILHARMONIC ORCHESTRA

**ROMEO and JULIET**

RACHMANINOFF with PAVEL KOLESNIKOV

FEBRUARY 12 + 13

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**SOME FINAL THOUGHTS**

- + Consider IP&C At Procurement Stage
  - + smooth / non-porous / easy to clean
- + Establish cleaning logs within your team for accountability & efficiency purposes
- + Read & Get Educated
  - + PIDAC / IPAC Canada / Others?
- + Small Adjustments In Behaviour Can Have Major Impacts On Outcomes
  - + Be conscious of your hands
  - + Identify windows for IP&C in existing routines

**ONE GOOD CUSTODIAN CAN PREVENT MORE INFECTIONS THAN A DOZEN DOCTORS CAN CURE**

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**Q & A**

**GROUP  
DISCUSSION**

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**Swish** | Experts in complete  
cleaning solutions

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