





THE CHALLENGE:

PHAC and PIDAC guidance highlight the importance of medical device disinfection

"PHAC states that the appropriate reprocessing (i.e., cleaning, disinfection and sterilization) of reusable medical devices is important in preventing the transmission of microorganisms, and an obligatory component of health care that must be performed according to published guidelines and standards."

- PHAC from
- "Reprocessing of patient care equipment
- Reprocessing reusable equipment"

"PIDAC recommends that environmental cleaning in the health care setting must be performed on a routine and consistent basis to provide for a safe and sanitary environment. Noncritical medical equipment requires cleaning and disinfection after each use. Each health care setting should have written policies and procedures for the appropriate cleaning of noncritical medical equipment that clearly defines the frequency and level of cleaning, and which assigns responsibility for the cleaning"

PIDAC from

"Best Practices for Environmental Cleaning for Infection Prevention and Control - 3.3 Equipment"

- * PHAC. Routine Practices And Additional Precautions For Preventing The Transmission Of Infection In Healthcare Settings. (p31). http://publications.gc.ca/collections/collection_2013/aspc-phac/HP40-83-2013-eng.pdf
- † PIDAC. Best Practices for Environmental Cleaning for Prevention and Control of Infections in All Health Care Settings, 3rd Edition. (p31). https://www.publichealthontario.ca/-/media/documents/bp-environmental-cleaning.pdf?la=en

THE CHALLENGE:

Damage to dollars

Cleaning practices and products that are incompatible with medical materials can result in enormous hidden costs

"Use of cleaning agents or cleaning practices that are incompatible with the materials used in a medical device's construction, or that are otherwise inappropriate for the device's design, can cause the device to malfunction or to fail prematurely, possibly affecting patient care."

- ECRI Institute

- Medical device manufacturers create numerous generations of the same device with varying material blends every year. These components/ blends are never shared with the customer.
- Historically, disinfectant manufacturers prioritize efficacy and safety to patients.

Types of Surface Damage Seen in Healthcare

Multiple types of surface damage can result from the use of cleaners and disinfectants on healthcare surfaces



Plastic fatigue cracks, crazing, often caused by plasticizing ingredients in formula (usually solvents)



Discoloration
can occur when the
protective coating
is removed and then
exposed to sunlight
or heat



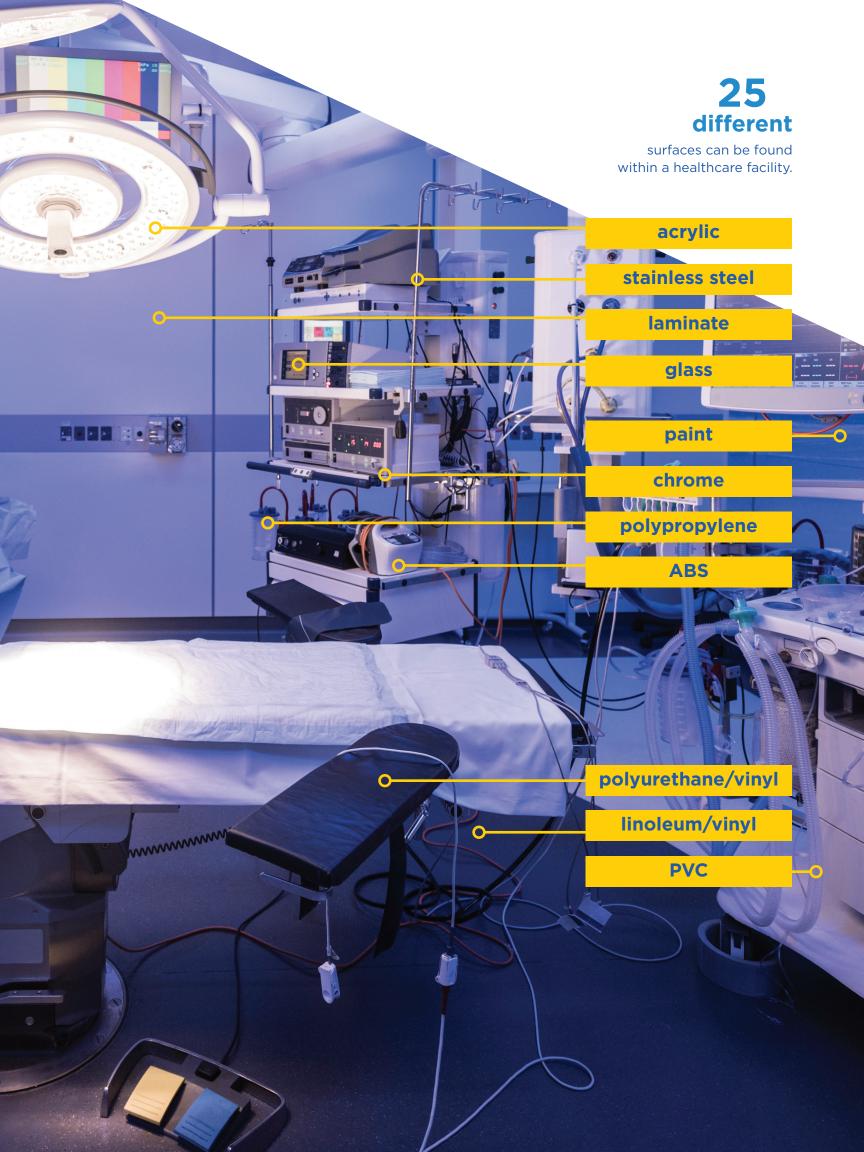
Metal corrosion occurs when acidic and alkaline disinfectants damage metal surfaces, even those covered with protective paints and coatings



Residue streaky residues caused by surfactants and solvents, or salty residues caused by dissolved solids are unsightly but usually removable by wiping with clean damp cloths



THE CHALLENGE: Complexity stems from numerous factors Why is it so difficult to create a disinfectant that doesn't damage surfaces? What factors can affect compatibility on devices? Disinfectant active ingredient Types and varieties of surfaces How device is being used Frequency of cleaning and the protocols Poor design for cleanability Other components of disinfectant (solvents, surfactants, additives) A medical device can consist of up to different materials and blends



OUR PROGRAM:



Clorox's approach to compatibility testing

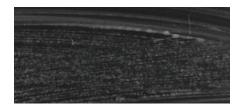
The Clorox Healthcare Compatible™ Program

In 2015, Clorox launched the Clorox Healthcare Compatible™ program to rigorously evaluate the compatibility of materials and equipment commonly used in healthcare with our range of disinfectants.

Our scientists continue to develop industry best practices to help our customers feel confident about the performance of our products.



Soak test. Material submerged in disinfectant chemistry for 4 days with a wet/dry cycle each day. Provides data on durability of material after intense exposure to chemical.



Wipe test. Surface wiped and allowed to dry 180 times. Simulates real-world exposure to wipes and residue build-up. Provides data on durability of material after intense exposure to chemical.



Stress test. Hole drilled near material edge, and vertical cut made to create high-stress area. Material immersed in disinfectant for up to 72 hours. Provides data on durability of material after intense exposure to chemical.

Our three-prong approach to compatibility testing determines how we rate the compatibility of disinfectants with commonly found materials in the healthcare setting.

Learn more at: www.cloroxhealthcare.com/compatible

The Clorox Healthcare Compatible™ Star Rating System

3-Star System



No visible surface damage or effect on the material is likely to occur when used according to label directions. No change to the integrity of the material is expected.



Some visible surface damage such as tarnishing or clouding may be seen with long-term exposure. Little to no effect on material integrity is expected. Periodic wiping of surfaces with a clean damp cloth to remove residue can help to minimize damage.



Visible damage to the surface is likely to occur with long-term exposure and some effect on material integrity is possible. Surfaces should be wiped with a clean damp cloth immediately after the contact time has been reached to reduce the risk of damage. Users should evaluate the risk of surface damage vs. benefits of disinfectant efficacy against pathogens to determine whether the product is appropriate for use.

CLOROX HEALTHCARE: DISINFECTANT COMPATIBILITY CHART



Clorox Healthcare® Bleach Germicidal Wipes



Clorox Healthcare® Fuzion® Cleaner Disinfectant



Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant Wines



Clorox Healthcare® VersaSure™ Cleaner Disinfectant

	Surface	Examples	Germicidal Wipes	Cleaner Disinfectant	Peroxide Čleaner Disinfectant Wipes	Cleaner Disinfectant Wipes
POLYMERS	Acrylics (PMMA)	Phone displays, incubators, X-ray protective shields, isolettes	***	***	***	**
	ABS	Keyboards, pumps, medical devices for blood access, enclosures for electrical and electronic assemblies	***	***	***	**
	High-Density Polyethylene (HDPE)	Packaging, trays, bottles, and other industrial plastic products	***	***	***	***
	Marlite®	Wall panels	***	**	*	***
	Polypropylene (PP)	Hard molded plastic used for bottles, trays, device exteriors	***	***	***	***
	Polyvinylchloride (PVC)	Furniture, mattress covers, tubing, floors	***	***	***	***
	Tritan™ Copolyester	Clear polymer device components	***	***	***	***
	Vinyl fabric	Furniture, exam tables, curtains	***	***	***	***
	Polycarbonate	Lenses, housings, IV connectors	***	N/A	***	**
GLASS	Glass	X-ray shields, glass partitions, wall panels, bathroom/shower enclosures	***	***	***	***
	Sapphire Glass	Device screens, protective covers	***	***	***	***
METALS	Aluminum (Multipurpose 6061)	Walkers, isolation carts, seating	*	*	*	***
	Aluminum Silicate	Instrument trays, walkers, crutches, folding stretchers	***	***	***	***
	Brass	Decorative items, pipe fittings	*	*	*	*
	Chrome Plated Metal	Bathroom fixtures, IV Poles, gurneys, equipment racks, stools, chairs, grab bars	***	***	***	***
	Galvanized Steel	Carts, ductwork, pipes, nails, bolts	*	*	*	***
	Stainless Steel 316	Sinks, wheelchairs, bed frames, cabinets, carts, trolleys, furniture, fixtures, equipment, counters	***	***	***	***
HARD POROUS SURFACES	Corian [®]	Countertops	***	***	***	***
	Glazed Ceramic	Tiles	***	***	***	*
	Glazed Porcelain	Bathroom tiles, toilets, sinks	***	***	***	***
	Natural Marble	Decorative countertops	***	***	*	***
	Porcelain Enamel	Coatings on metal appliances, bathtubs	***	***	***	***
	Sealed Marble	Decorative countertops	***	***	***	***
	Sealed Granite	Decorative countertops	***	***	***	***

Who we are

Clorox Healthcare Values

- Clorox Healthcare prides itself on developing disinfecting solutions that help reduce HAIs in your facility and enable a safe environment for your patients.
- We also realize the importance of keeping your facility looking clean and protecting the investment you make in your surfaces and equipment. We continue to invest in the development of products that deliver the efficacy you need with minimal aesthetic tradeoffs. In the absence of the ideal disinfectant, we believe it's important to educate our customers about surface compatibility and how to optimize your product, protocol and equipment choices to provide the best possible outcomes for you and your patients.
- That's why we developed this compatibility resource guide: to arm you with important information about how to address compatibility concerns and how our products can be expected to perform on different surfaces and equipment.



Thank You

For more information contact your Clorox Healthcare sales representative or call 1-866-789-4973

email: healthcare@clorox.com visit us: www.CloroxHealthcare.ca

