

COVID-19

Proactive Cleaning, Decontamination, and Sanitization

Presented by:
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Novel-Coronavirus (COVID-19, SARS-CoV-2, nCoV)

COMMON CORONAVIRUS

Coronaviruses are common throughout the world and mostly cause mild to moderate illness. They are one cause of common colds.

Coronaviruses:

229E (alpha coronavirus)

NL63 (alpha coronavirus)

OC43 (beta coronavirus)

HKU1 (beta coronavirus)

NOVEL-CORONAVIRUSES

This is a new coronavirus that can cause a more serious respiratory illness in people. This is a non-human or animal coronavirus that has mutated and is now spread through sustained human to human transmission.

Novel Coronaviruses:

MERS-CoV

(the beta coronavirus that causes Middle East Respiratory Syndrome, or MERS)

SARS-CoV

(the beta coronavirus that causes severe acute respiratory syndrome, or SARS)

[SARS-CoV-2](#)

(the novel coronavirus that causes coronavirus disease 2019, or COVID-19)

Content source: [National Center for Immunization and Respiratory Diseases \(NCIRD\), Division of Viral Diseases](#)

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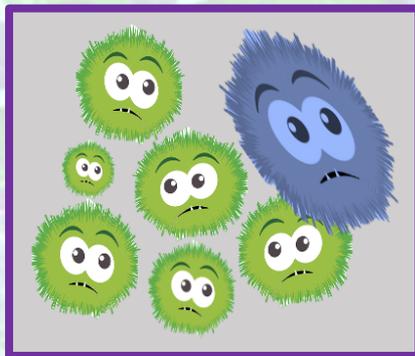
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The unknown

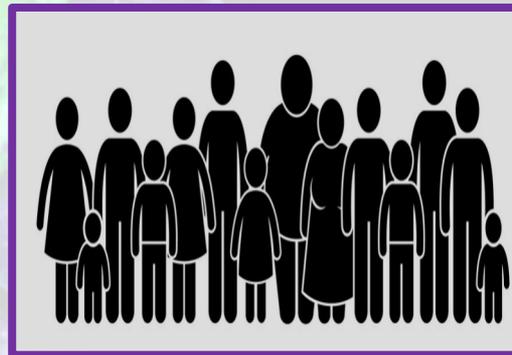
We don't know, what we don't know.

~Donald Rumsfeld

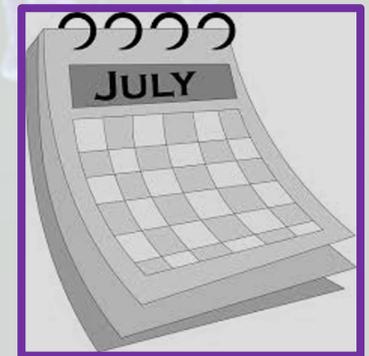
We don't know
if it will continue
to mutate



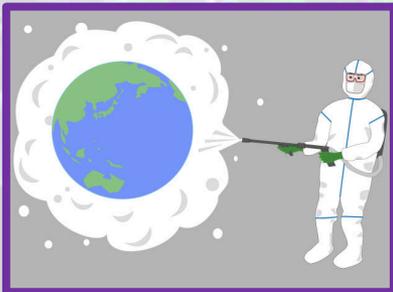
We don't know
how many
people will die or
be infected



We don't know
how long the
pandemic will
last



We don't know
definitively how
to stop it



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The known unknown

COVID-19 is an *infectious virus that spreads easily through close human contact.*

- Means to survive (hosts)**
- Possible means to survive (fomites)***
 - hard and soft surfaces**
 - hair, clothing, plants, paper**
- COVID-19 may remain viable for up to 24 days on porous and nonporous surfaces (compared to 1-3 days for normal influenza viruses).**

Based on what is currently known about the virus, spread from person-to-person happens most frequently among close contacts (within about 6 feet). This type of transmission occurs via respiratory droplets. Transmission of novel coronavirus to persons from surfaces contaminated with the virus has not been documented. Transmission of coronavirus in general occurs much more commonly through respiratory droplets than through fomites. ***Current evidence suggests that novel coronavirus may remain viable for hours to days on surfaces made from a variety of materials.*** Cleaning of visibly dirty surfaces followed by disinfection is a best practice measure for prevention of COVID-19 and other viral respiratory illnesses in community settings.**

*Currently there have been no scientific documented cases of COVID-19 spreading from surface to a human.

**Source: <https://www.cdc.gov/coronavirus/2019-ncov/community/organizations/cleaning-disinfection.html>



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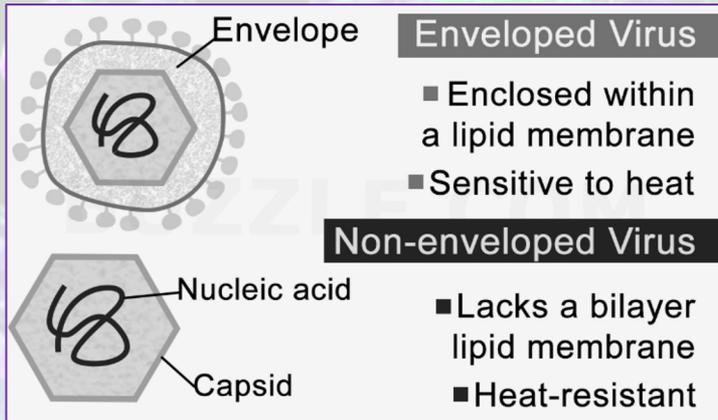
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What we do know

COVID-19 is an Enveloped Virus



Non-enveloped Viruses

◆ They display excellent heat-resistant properties, and moreover, can easily withstand a dry and acidic environment. In fact, *the virus is more powerful and proliferates rapidly in an acidic environment. They can also survive in some disinfection processes.* This essentially means that the virus remains active and infectious in these harsh conditions too.

Non-enveloped Virus:
Poliovirus
Hepatitis A

Enveloped Virus:
Influenza
Measles
HIV
COVID-19

Enveloped Viruses

◆ *They cannot tolerate hot temperatures or acidic environment. Moreover, they are also sensitive to dry conditions. This means that they no longer remain active in these conditions.*

THIS IS GOOD NEWS

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CLEANING for COVID-19



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LEVELS OF CLEANING

CAT1:
Proactive
cleaning only

CAT2:
Person under
investigation (PUI)
/possible exposure

CAT3:
Confirmed,
positive case



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IICRC

Institute of Inspection Cleaning
and Restoration Certification

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Safety First: Proper Gear



CAT 1

- N-95 respirator mask
- Nitrile gloves
- Goggles



CAT 2/3

- Half or full-face respirators – P100 Filters*
- Gloves: 4-mil nitrile outer and 5-mil long-cuff inner (two different colored gloves recommended for tear detection)
- Coveralls with attached hood and boots with storm flap over zipper
- Duct tape to secure gloves to coveralls

*If using half-mask respirator eye protection should include a face shield or goggles.



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Cleaning Levels

It is important to understand the different levels of cleaning that may or may not be possible for each surface. All surfaces can be cleaned, many surfaces can be sanitized, some surfaces can be disinfected.



General Cleaning

Sanitizing

Disinfecting

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General Surface Cleaning

General surface cleaning is accomplished with water, detergent, and physical scrubbing of the surface

- Removes visible dirt, organic matter, viruses, fungi and bacteria
- Remove microbes if possible, rather than kill them
- Thorough surface cleaning reduces future needs to disinfect



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Sanitizing

Reduces but does not necessarily eliminate all the bacteria on treated surfaces

- Registered sanitizers must show a reduction of at least 99.9% in the number of each type of bacteria tested on non-food-contact surfaces

Examples of Sanitizers can include:

- Carpet
- Laundry
- Air
- Toilet Bowl



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Disinfecting

Works by using chemicals to kill germs on surfaces

- Does not necessarily “remove” germs or “clean” dirty surfaces
- Destroys or irreversibly inactivates infectious microbes but not necessarily the spores of bacteria or fungi



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Cat 1 Cleaning Details

Cat 1: PROACTIVE –

NO active known threat of SARS-CoV-2 contamination or exposure.

The CDC encourages cleaning of high touch surfaces:

- counters
- tabletops
- bathroom fixtures/toilets
- keyboards, tablets, computers
- doorknobs
- phones



Cleaning removes the soil and dirt that harbors the infectious agents, while disinfecting kills the remaining environmental pathogens. Cleaning is a necessary first step in disinfecting a surface. Both cleaning and disinfecting must be a part of the scope of work.

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Cat 2 Cleaning Details

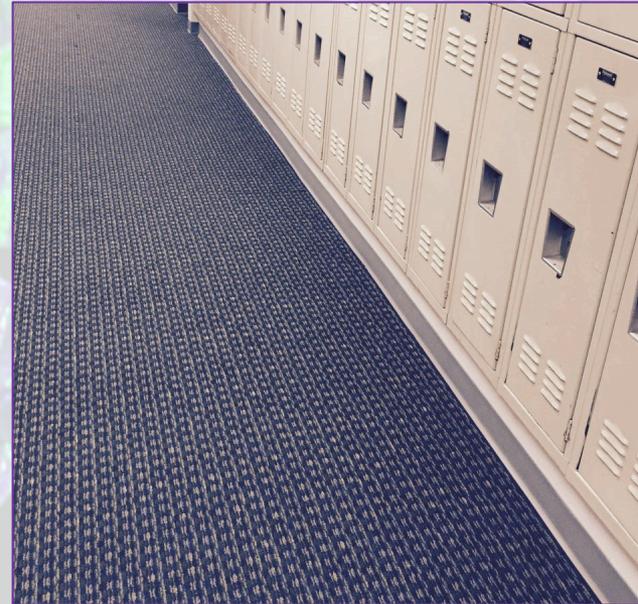
Cat 2: PRESUMPTIVE –

Possible exposure to COVID-19 or suspected COVID-19 individuals (PUI - Person Under Investigation)

Cat 2 Cleaning includes everything in Cat 1 but also includes cleaning and disinfecting of high touch nonporous surfaces and cleaning and sanitizing of high touch porous surfaces.

Examples of some of the more common porous surfaces:

- drywall
- carpeting
- wallpaper
- acoustical ceiling tiles
- wood



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Cat 3 Cleaning Details.

Cat 3: Enhanced Cleanup required for a confirmed positive for COVID-19

This includes cleaning and disinfecting of all nonporous surfaces and cleaning and sanitizing of all porous surfaces.

This enhanced cleaning also includes:

- walls up to 8 feet (but excludes ceilings)
- a combination of High Touch Cleanup and Enhanced Cleanup may be needed within a structure based on where the infected individual has directly traveled or occupied
- requires more man hours/equipment



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Chemicals/Products

THE EPA provides a complete list of registered products to clean COVID-19 at:

<https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>

When evaluating products look for EPA registration numbers* like the one below and then you can compare it to the list:

For body fluids must be thoroughly cleaned from surfaces and objects before application of this product. If according to Federal, State, and local regulations for infectious waste disposal. CONTACT TIME: Allow

EPA Reg. No. 82972-1-93012 EPA Est. No. 85804-NC-1; EPA Est. No. 29909-CA-1
(See batch code for actual establishment number.) NOTICE: Seller expressly warrants that the product conforms to its chemical description. There are no other warranties associated with sale of the product.

Manufactured for:
Servpro Professional Cleaning Products, Inc.
801 Industrial Blvd.
Gallatin, TN 37066
Tel: 615-451-0200
Not For Resale



#100 ServprOXIDE is our product of choice due to overall effectiveness, EPA's lowest toxicity rating, application methods and the non-lingering odor that will dissipate quickly.

***Note: Inclusion on this list does not constitute an endorsement by EPA. There may be additional disinfectants that meet the criteria for use against SARS-CoV-2. EPA will update this list with additional products as needed.**

#172 Benefect Decon-30, EPA Reg.# 84683-3-74771, has a kill claim for Norovirus, which is a small non-enveloped virus so it can be assumed per the EPA to be effective against SARS-CoV-2. It is found on the EPA list as the two part EPA Reg.# 84683-3.

#127N Concrobium Disinfect II, EPA Reg.# 34810-25-82552, has a kill claim for Norovirus, which is a small non-enveloped virus so it can be assumed per the EPA to be effective against SARS-CoV-2. It is found on the EPA list as the two part EPA Reg.# 34810-25.

#175 Vanquish, EPA Reg.# 6836-140-68562, has a kill claim for Norovirus, which is a small nonenveloped virus so it can be assumed per the EPA to be effective against SARS-CoV-2. It is found on the EPA list as the two part EPA Reg.# 6836-140.



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Equipment- HYDROXYLS

Using green technology, Hydroxyls have patented systems which are the industry's most advanced solution to purifying the air, decontaminating contents and surfaces, as well as eliminating stubborn odors.

How it works: 365nm to 385nm UVA rays emitted from the titanium dioxide (TiO₂) photocatalytic lamps pass through a permanent anatase coated (TiO₂) super reactor screen forming electron hole pairs that react with water and oxygen in the air to form free electrons and hydroxyl radicals that decompose and eliminate organic and inorganic gases and air pollutants.



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Equipment- FOGGERS

This compact and stable ULV Sprayer/Mister is ideal for ventilation ducts and carpets..

Deodorizing and disinfecting is a cinch with the Flex-A-Lite 2600 ULV Sprayer/Mister. This compact and stable ULV Sprayer/Mister is ideal for ventilation ducts and carpets. The Sprayer/Mister can effectively handle water or solvent-based chemicals. The Flex-A-Lite 2600 ULV has an adjustable flow control atomizes liquids from fine (20 microns) to heavy (56 microns). With a flexible 48-inch hose, hard-to-reach spots are thoroughly covered.



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THANK YOU.
Be safe, be well, stay healthy!

We are all in this together!

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