

PUBLIC HEALTH MATTERS

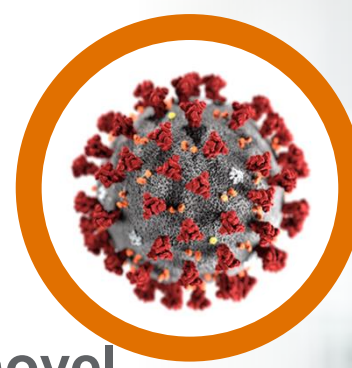
Understanding Novel Coronavirus (2019-nCoV acute respiratory disease)



OUR GOALS TODAY

- **Expertise** about the Novel coronavirus (COVID-19) outbreak and public health
- **Guidance** on how to keep employees and patients safe
- **Practical industry insights** to help combat coronavirus (COVID-19) for: Healthcare & Senior Living

WHAT WE KNOW ABOUT CORONAVIRUS

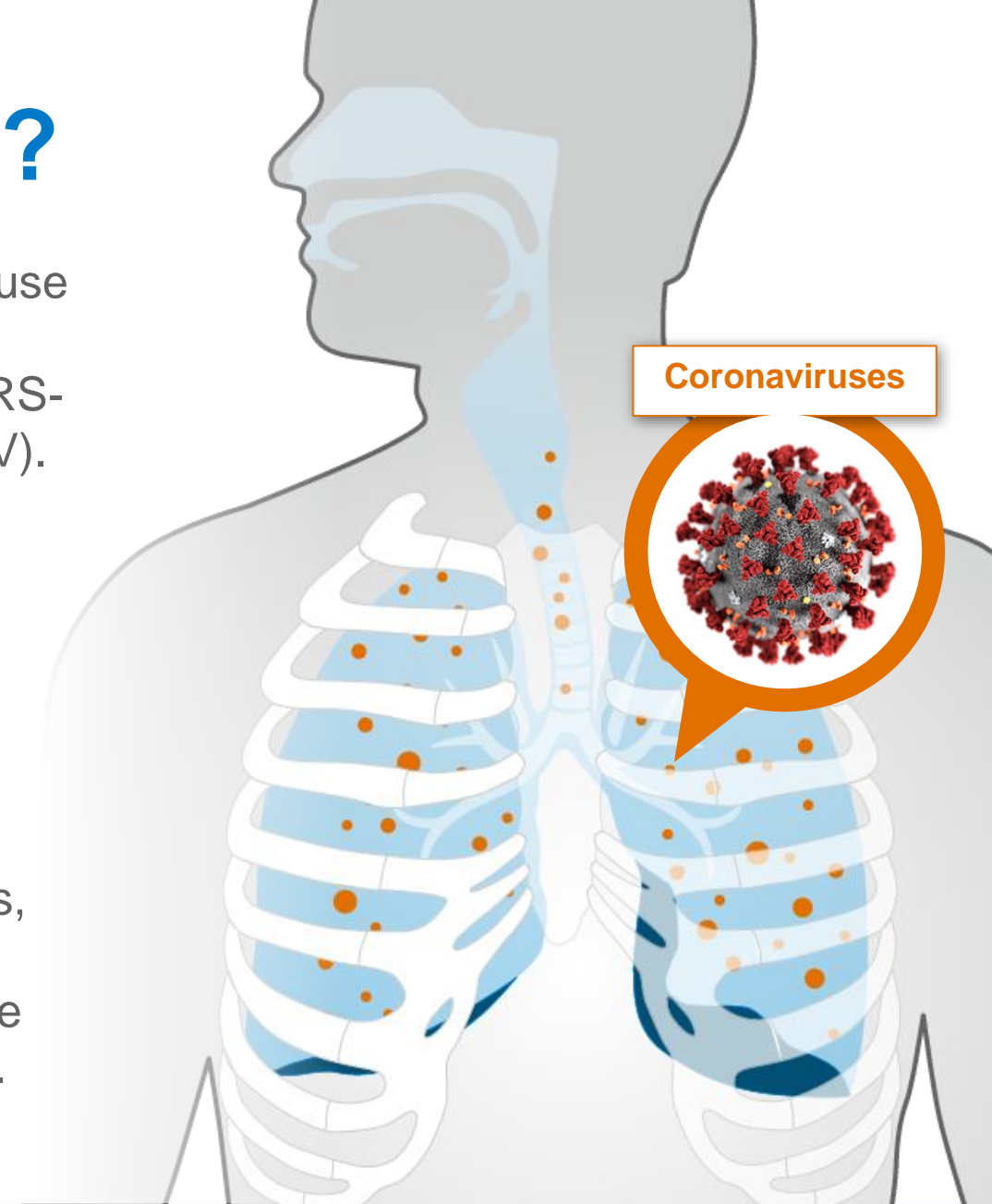


- Chinese public health authorities have **identified a novel coronavirus (COVID-19 Acute Respiratory Disease)** not previously seen.
 - 2nd strain reported from China, not yet confirmed
- The virus causes fever and respiratory symptoms.
- To date, the virus has infected tens of thousands of people, with thousands of reported deaths*
 - Access case counts here: [Global Map of Confirmed Cases](#)
- Public health authorities are actively investigating this outbreak and **the situation will evolve.**

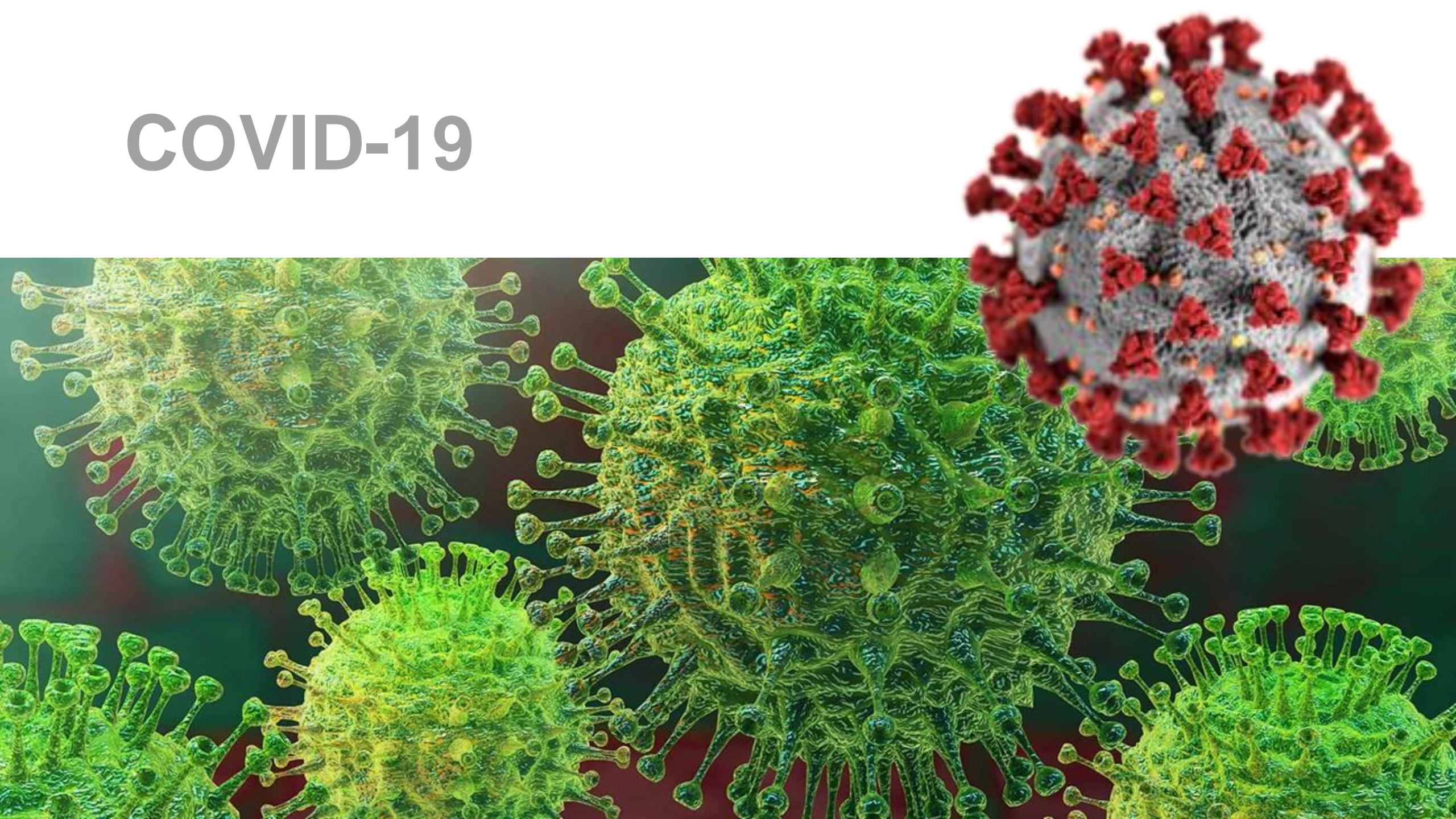


WHAT IS A CORONAVIRUS?

- **Coronaviruses (CoV)** are a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS-CoV) and Severe Acute Respiratory Syndrome (SARS-CoV).
- **A novel coronavirus (nCoV)** is a new strain that has not been previously identified in humans.
- **Coronaviruses are transmitted between animals and people.** Several known coronaviruses are circulating in animals that have not yet infected humans.
- **Common signs of infection** include respiratory symptoms, fever, cough, shortness of breath and trouble breathing. In more severe cases, infection can cause pneumonia, severe acute respiratory syndrome, kidney failure and even death.

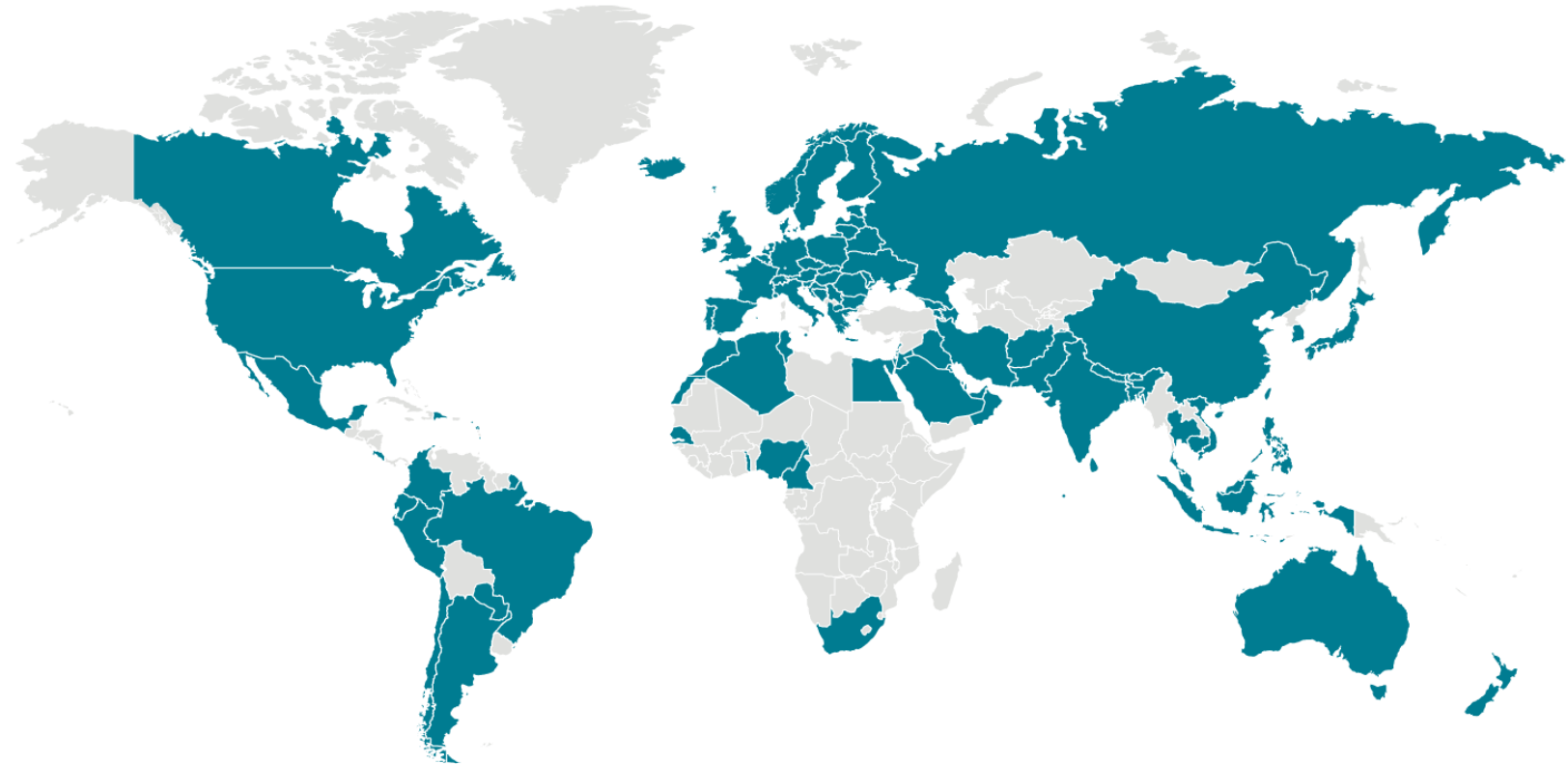


COVID-19



COVID-19 NUMBERS WORLDWIDE

- 116,059 cases
- 4089 deaths
 - 3136 in China
 - Iran 291, Italy 463
S. Korea 54
 - Those 4 countries
total 3944
 - 145 the rest of the
world*



COVID-19 NUMBERS – USA

- 755+ cases
- 26 deaths
 - Washington – 22
 - California – 2
 - Florida - 2

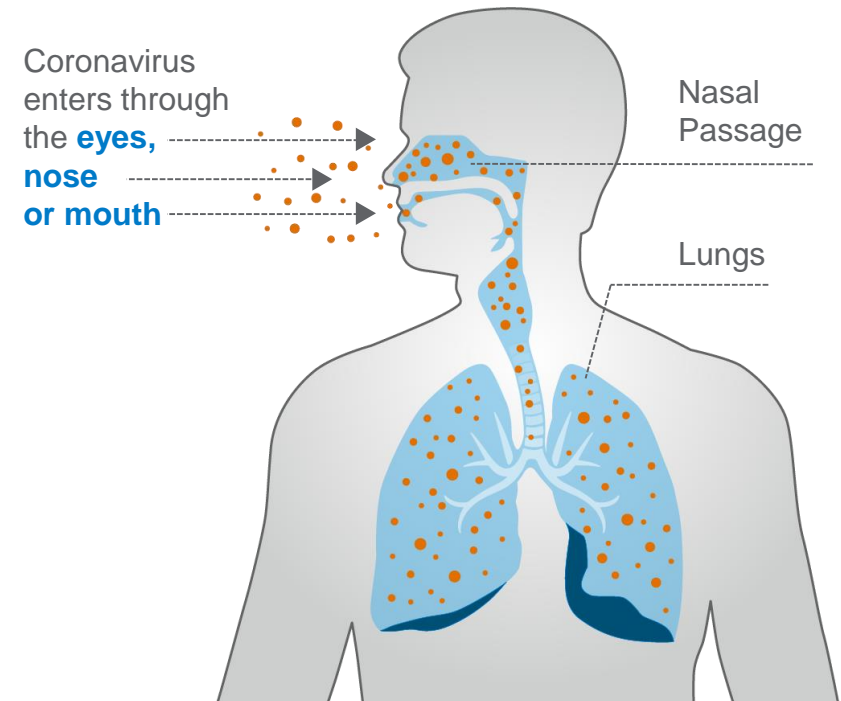


HOW DOES CORONAVIRUS SPREAD?

It depends on the particular coronavirus.

Human coronaviruses are rarely spread by fecal contamination **but may spread from an infected person to others through:**

- The air by coughing and sneezing
- Close personal contact, such as touching or shaking hands
- Touching an object or surface with the virus on it, then touching your mouth, nose or eyes before washing your hands



Transmission from person to person is occurring to some extent with 2019-nCoV acute respiratory disease, especially among very close contacts. Surveillance continues.

THIS IS HOW!



TO MASK OR NOT TO MASK . . .



WE CAN TAKE STEPS TO HELP PROTECT PUBLIC HEALTH

Public health recommendations focus on **standard infection control practices, training and compliance.**



HOW TO PROTECT YOURSELF



There are currently no vaccines available to protect you against human coronavirus infection.

You may be able to **reduce your risk** of infection by doing the following:

- 1 Wash your hands** often and correctly.
 - The World Health Organization recommends performing hand hygiene with soap and water or alcohol-based hand rub if soap and water are not available.
- 2 Avoid touching** your eyes, nose or mouth with unwashed hands.
- 3 Avoid close contact** with people who are sick.
- 4 Avoid areas where live animals are being sold or raised** in regions where excessive cases are being reported.
- 5 Wear a mask and seek medical advice immediately** if you have a fever or other symptoms after traveling. Tell the doctor where you have traveled.





'SHAKE'



NO SOAP



**4. SIX
SECONDS
WITH SOAP**



**5. FIFTEEN
SECONDS
WITH SOAP**



**6. THIRTY
SECONDS
WITH SOAP**



HOW TO PROTECT OTHERS

If you have cold-like symptoms, you can **help protect others** by doing the following:



Washing your hands



Covering your mouth and nose with a tissue when you cough or sneeze, then throwing the tissue in the trash and washing your hands



Wearing a mask



Seeing a doctor immediately



Staying home while you are sick



Cleaning and disinfecting objects and surfaces



Avoiding close contact with others

WHAT ABOUT FOOD SAFETY?

Standard food safety practices are encouraged, beginning with avoiding direct, unprotected contact with live animals and surfaces in contact with live animals.

- Avoid consuming raw or undercooked animals or sick animals.
- Avoid cross-contamination by properly handling raw meat, milk or other animal materials.
- Properly clean and sanitize food contact surfaces including hands and utensils.



➤ **Currently, there is no evidence that 2019-nCoV is transmitted to humans through food.**

SHOULD YOU WORRY ABOUT SHIPMENTS COMING FROM CHINA?

Coronaviruses have poor survivability on surfaces, so the risk of spread from products or packaging is very low.



- **Currently, there is no evidence to support transmission of 2019-nCoV associated with imported goods.**

ACTION PLAN FOR HEALTHCARE



PATIENTS

- Wear surgical mask
- Be evaluated in a private room with the door closed (ideally, an airborne infection isolation room)



HEALTHCARE PERSONNEL

- Standard precautions
- Contact precautions
- Airborne precautions
- Eye protection (e.g., goggles or face shield)



HYGIENE

- Frequent hand hygiene
 - The World Health Organization recommends performing hand hygiene with soap and water or alcohol-based hand rub if soap and water are not available.
- Disinfection of surfaces using EPA-registered products that have a claim against emerging viral pathogens

ACTION PLAN FOR SENIOR LIVING

- Follow local public health recommendations.
- Educate and inform all employees of proper infection control procedures
- Reinforce personal hygiene (hand and cough) throughout your organization and provide and train on PPE for employees.
- Provide hygiene materials such as soap, alcohol-based hand rubs and hand sanitizer stations to residents and employees throughout your property.
- Clean and disinfect surfaces and high-touch objects with approved disinfectants. Increase frequency as needed.
 - Hand railings, elevator buttons, public areas and resident rooms should be disinfected regularly.
- Consider closing non-essential public areas or delivering foodservice in-room.



➤ Implement infection control procedures.

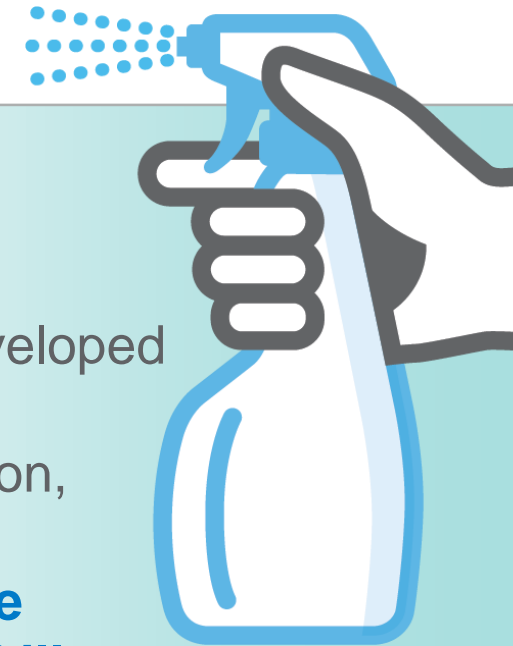
WHAT STEPS SHOULD YOU TAKE IN YOUR BUSINESS?

- Ensure employee health and hygiene practices are in place, especially proper hand hygiene
- Disinfect hard surfaces and high-touch areas, including:
 - Railings
 - Doorknobs and handles
 - Restroom surfaces
 - Counters
 - Tabletops
- Ensure availability and proper training of personal protective equipment (PPE) where appropriate



Good News

Coronavirus is an enveloped virus. Enveloped viruses are the least resistant to disinfection, which means **disinfectants can be used to effectively kill coronavirus on surfaces.**



READ LABELS CAREFULLY!!

Product Specification Document



Quaternary Disinfectant Cleaner

ONE-STEP DISINFECTANT

CLASSIFICATION

- One-Step Disinfectant • Cleaner • Fungicide • Mildewstat • Virucide* • Deodorizer

PRODUCT DESCRIPTION

- Quaternary Disinfectant Cleaner is a one-step disinfectant/cleaner and deodorizer that is effective at ½ - 2 oz. per gallon against a representative list of Gram negative and Gram positive bacteria as listed on the label. Includes Hepatitis B virus (HBV), Hepatitis C Virus (HCV) and Norwalk virus.
- Quaternary Disinfectant Cleaner meets all efficacy requirements as a Hospital disinfectant. Ideal for use in hospitals, nursing homes, medical offices, dental offices, cafeterias, bathrooms, healthcare facilities, shower and bath areas, public rest rooms, emergency vehicles and other institutional facilities.
- Quaternary Disinfectant Cleaner is for use on hard, non-porous surfaces like floors, walls, toilet bowl surfaces, sinks, showers, lavatory fixtures, finished woodwork, vinyl and plastic upholstery.
- Quaternary Disinfectant Cleaner is an effective bactericide and virucide in hard water up to 400 ppm hardness (calculated as CaCO₃) in the presence of 5% serum contamination.

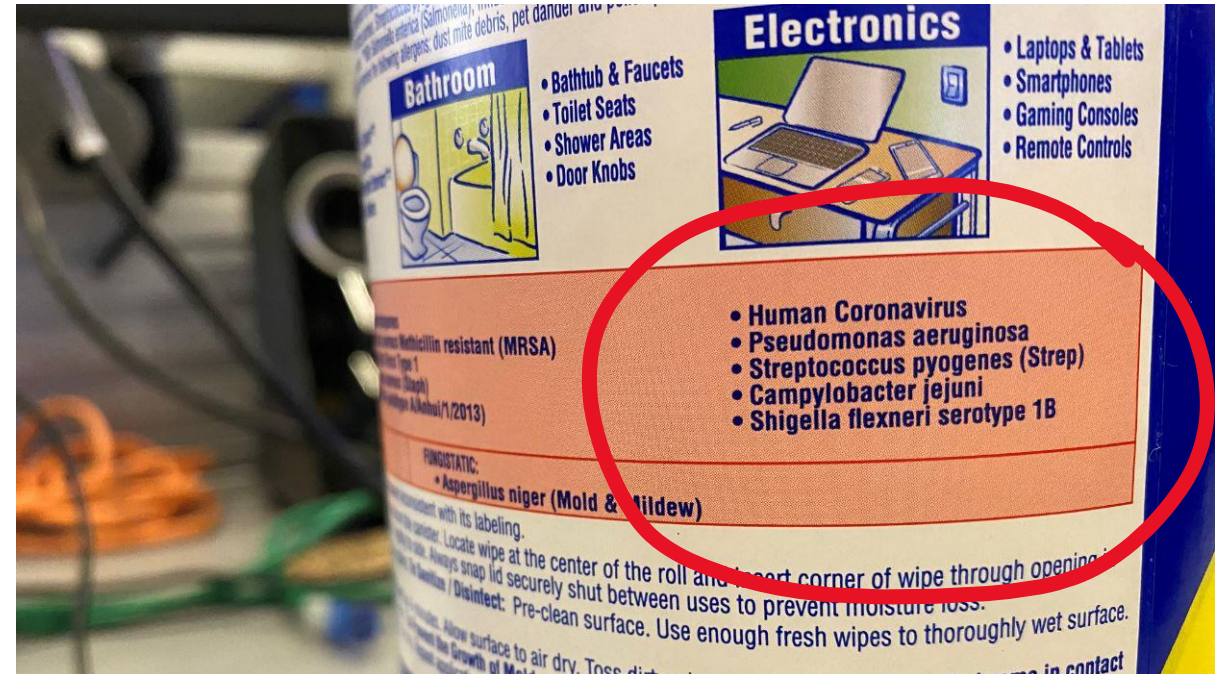
FEATURES AND BENEFITS

FEATURE	BENEFIT
Quaternary disinfectant cleaner	Cleans, disinfects and deodorizes in one step. Compatible with many types of surfaces as stated on the label. Helps save time, helps reduce inventory need.
½ to 2 oz. per gallon dilution range Economical to use under a variety of conditions	Allows for a dilution ratio sufficient to provide stated level of active ingredient to surface for disinfection.
Kills Hepatitis B Virus, Hepatitis C Virus and Norwalk Virus in 10 min and HIV virus in 1 minute	Meets OSHA requirements as an effective disinfectant for cleanup of bloodborne pathogens as indicated on the label.
Broad spectrum bactericide and virucide effective in up to 400ppm hard water with 5% organic soil	Ideal for use in hospitals, nursing homes, day care centers, dental offices and other health care facilities. Effective in a variety of water conditions.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

- Quaternary Disinfectant Cleaner is for use on the following washable hard, nonporous surfaces: Floors, walls, countertops, sinks, exteriors of appliances, exteriors of refrigerators, cabinets, highchairs, garbage cans, refrigerated storage and display equipment, tables, outdoor furniture except cushions and wood frames, chairs, desks, telephones, doorknobs, showers, fiberglass tubs, glazed tiles, fiberglass bathtubs, toilet bowl surfaces, bathroom fixtures, coils and drain pans of air conditioning and refrigeration equipment and heat pumps, conductive flooring and other hard nonporous surfaces made of metal, glazed porcelain, glazed ceramic, plastic (such as polystyrene or polypropylene), stainless steel, glazed enameled surfaces, finished woodwork, vinyl and plastic upholstery.
- Quaternary Disinfectant Cleaner is for use in hospitals, medical offices, dental offices, nursing homes, cafeterias, bathrooms, health care facilities, day care centers, nurseries, locker rooms, shower and bath areas, food storage areas, public rest rooms, institutions, schools, athletic facilities, camp grounds, transportation terminals, hotels, motels, business and office buildings, emergency vehicles.



CLEAN, SANITIZE, DISINFECT

- **Cleaning** removes germs, dirt, and impurities from surfaces or objects.
- **Sanitizing** lowers the number of germs on surfaces or objects to a safe level
- **Disinfecting** kills germs on surfaces or objects.

REFERENCES/ADDITIONAL INFO

WHO – www.who.int/health-topics/coronavirus

CDC – www.coronavirus.gov

EPA -
[content.govdelivery.com/accounts/USAEPAOPPT/
bulletins/278c716](https://content.govdelivery.com/accounts/USAEPAOPPT/bulletins/278c716)

WHO Myth Busters -
[www.who.int/emergencies/diseases/novel-coronavirus
2019/advice-for-public/myth-busters](http://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public/myth-busters)