

Albany
Business
COVID-19
Resilience
Training
May 6th, 2020

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Intrinsic Environment, Health & Safety

University of California, Berkeley,
Doctor of Public Health Candidate, 2020



PROTECTING PEOPLE,
PLACE & PLANET



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Who are we?
Scientifically grounded solutions for occupational, environmental health challenges

PROTECTING PEOPLE, PLACE & PLANET



Additional businesses will reopen Friday, with conditions

What we are learning about this disease is continuously changing. We all have to become experts and stay up-to-date. This is everyone's fight!

<https://www.cnn.com/2020/05/04/california-gov-gavin-newsom-says-some-businesses-will-reopen-friday-with-conditions.html>

The image shows a screenshot of a tweet from Gavin Newsom (@GavinNewsom) dated May 4, 2020. The tweet lists conditions for business reopening, including curbside pick-up and telework, while excluding seated dining and shopping malls. A green callout box on the right side of the tweet contains the text: "All with Curbside pick-up".

Gavin Newsom ✓
@GavinNewsom

What DOES this include?
Places like:

- clothing stores
- florists
- bookstores
- sporting goods stores

All with curbside pick-up.

What does this NOT include at this time?
Places like:

- Offices (can continue telework)
- Restaurants (seated dining)
- Shopping Malls

♥ 7,435 12:33 PM - May 4, 2020

💬 3,050 people are talking about this

"All with Curbside pick-up"

Not an exhaustive list

<https://www.cnbc.com/2020/05/04/california-gov-gavin-newsom-says-some-businesses-will-reopen-friday-with-conditions.html>

Overarching Questions!



How do we get back to business?

What can we learn from other frontline Essential Businesses, like restaurants?

What other businesses have been given the **Green Light to reopen?**

How do we reopen?

What we're
going to cover?

- **Governor's Stay-at-Home Order Update**
 - Six Critical Indicators
 - Alameda County Public Health Order
- **Overview of COVID-19**
 - Routes of Transmission
 - How to minimize the spread
 - Controls
 - Testing
- **Best Practices for Essential Businesses, and Reopening Businesses**
 - CDC's Reopening Guidance for Cleaning and Disinfecting
- **Resources**



Governor's Stay-at-Home Order

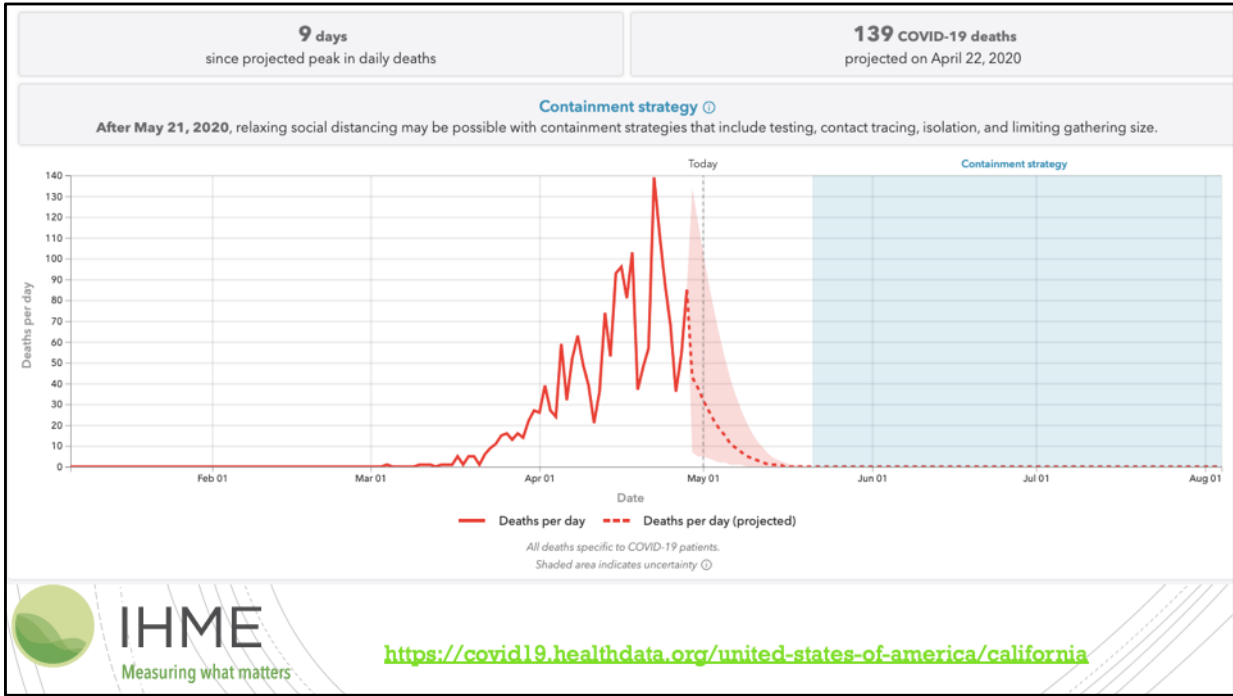


“While Californians have stepped up in a big way to flatten the curve and buy us time to prepare to fight the virus, at some point in the future we will need to modify our stay-at-home order...”



“As we contemplate reopening parts of our state, we must be guided by **science** and **data**, and we must understand that things will look different than before.”

--Governor Newsom.



The Institute for Health Metrics and Evaluation (IHME) is an independent global health research center at the University of Washington. May 1st, 2020.

California's six indicators for modifying the stay-at-home order are:



The ability to monitor and protect our communities through testing, contact tracing, isolating, and supporting those who are positive or exposed;

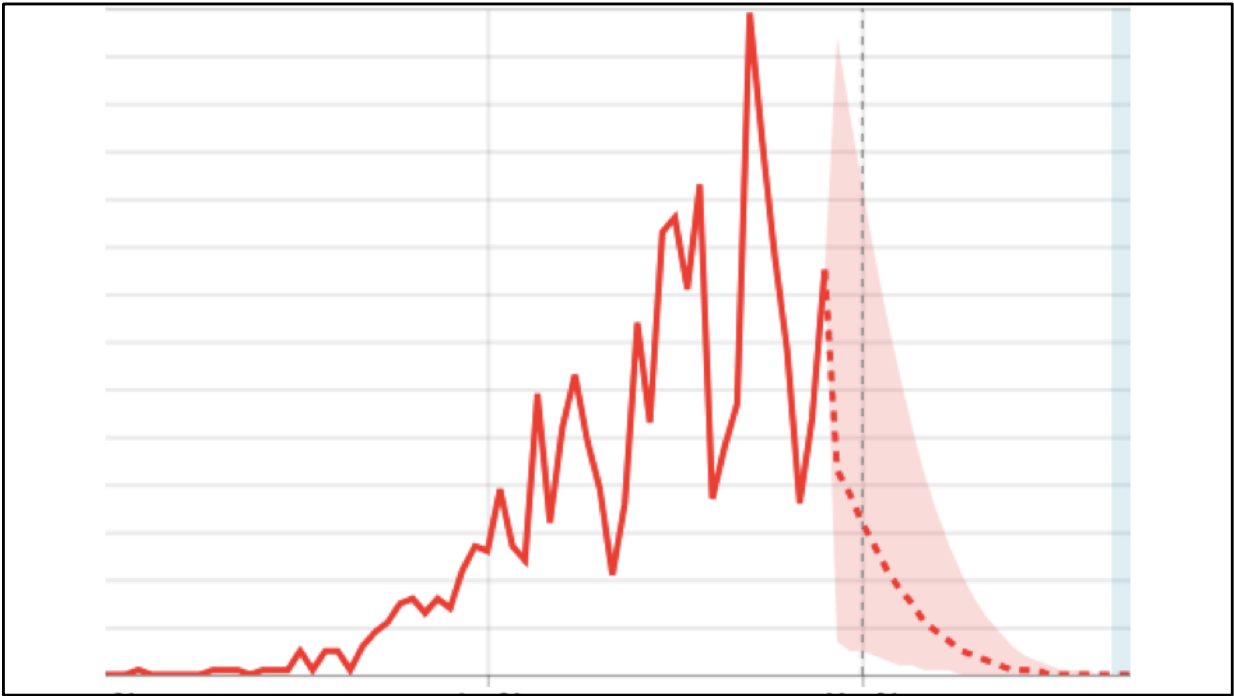
The ability to prevent infection in people who are at risk for more severe COVID-19;

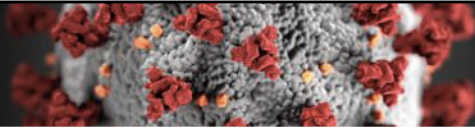
The ability of the hospital and health systems to handle surges;

The ability to develop therapeutics to meet the demand;

The ability for businesses, schools, and child care facilities to support physical distancing; and

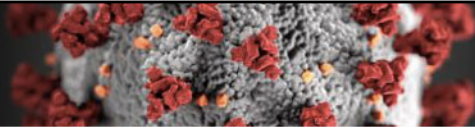
The ability to determine when to reinstitute certain measures, such as the stay-at-home orders, if necessary.





Updated Order
Directing
Alameda County
to Shelter at
Home

- This...will continue to be in effect until **11:59 p.m. on May 31, 2020...or** amended in writing by the Health Officer.

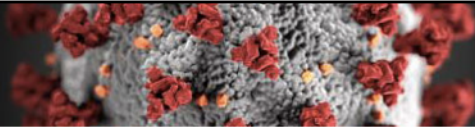


All persons to shelter at their place of residence, other than to provide or receive essential services or engage in certain low-risk activities:

- Performing tasks...essential to...health and safety;
- Obtaining necessary services and supplies...(a more detailed list in the [Order](#));
- Performing work providing essential products and services.
- Engaging in outdoor activity...so long as you do not congregate in a group and maintain at least six feet of distance between you and other people;

For most people, this means you and those you live with should remain at home. **If you are sick, you should self-isolate**, including, to the extent you can, from others you live with

<http://www.acphd.org/2019-ncov/shelter-in-place.aspx>



The Order allows a limited number of additional Essential Businesses and certain lower risk Outdoor Businesses to resume operating.

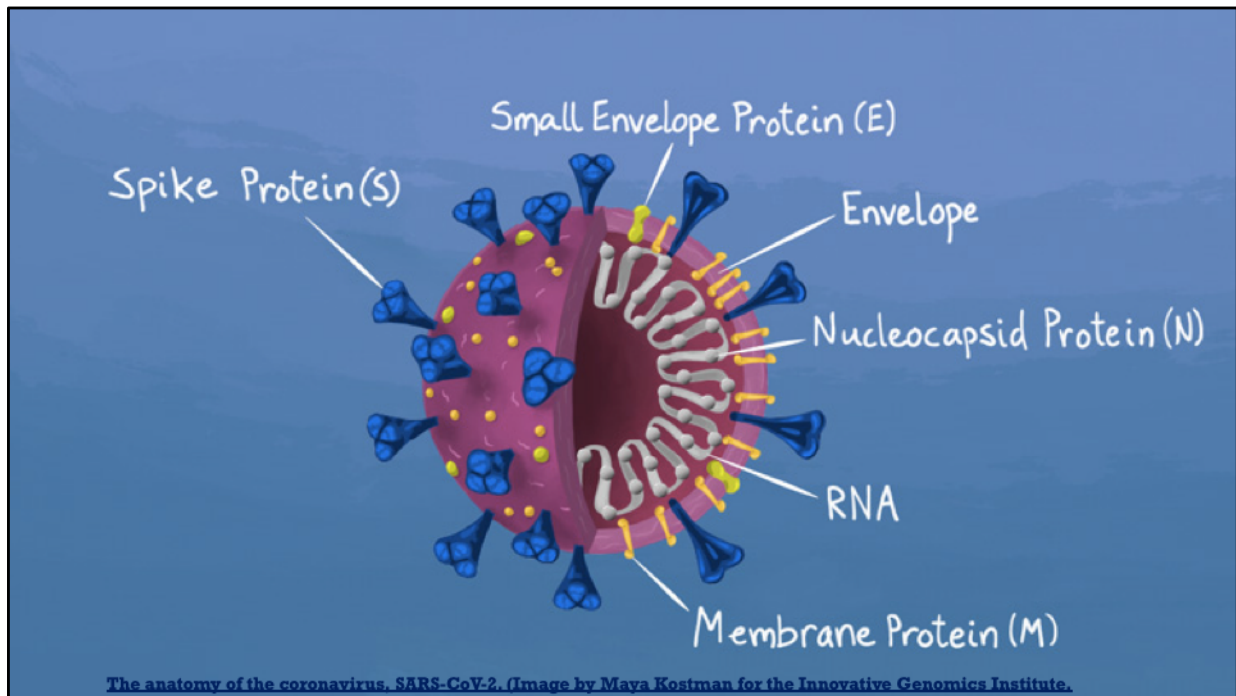
- All construction projects that follow the [Construction Project Safety Protocols](#) included with the order in Appendix B;
- Childcare, camps and educational/rec programs that provide care for children of people who are allowed to work outside of their homes;
- Outdoor businesses such as nurseries, landscaping, and agriculture that normally operated outdoors prior to the shelter in place orders; and
- Use of certain outdoor recreational facilities, such as skate parks and athletic fields.
- As a condition of operating under this Order, the operators of all businesses must prepare or update, post, implement, and distribute to their personnel a **Social Distancing Protocol** for each of their facilities in the County frequented by personnel or members of the public, as specified in Section 16.h.

<http://www.acphd.org/2019-ncov/shelter-in-place.aspx>

Industrial Hygienists are Considered “Essential Workers”

“Essential critical infrastructure workers include employed and contracted specialists who **anticipate, recognize, evaluate, and control hazards** or conditions which may cause injury or illness to workers, the public, or their communities.”

https://www.aiha.org/public-resources/consumer-resources/coronavirus_outbreak_resources/industrial-hygienists-are-considered-essential-workers



When infected by a virus like SARS-CoV-2, the cause of COVID-19, the body initially produces antibodies known as IgM (immunoglobulin-M), in an attempt to neutralize the virus. Later, as the body's adaptive immune system revs up, IgM levels go down, and the body ramps up production of IgG, which more specifically targets the viral invader.

Antibody tests, also called serology tests because they are conducted on blood samples, such as from a finger prick, can assess levels of both IgM and IgG, and the relative levels could indicate whether a person is in the early or late stages of infection.

As such, antibody tests can complement the information from PCR tests, since even these relatively accurate tests can give false negatives. PCR tests for coronavirus generally exhibit lower sensitivity if performed several days to a week after symptom onset, probably because of decreasing levels of the virus in the upper respiratory tract where samples for testing are commonly taken.

https://news.berkeley.edu/2020/04/27/what-covid-19-antibody-tests-can-tell-us-and-what-they-cant/?utm_source=Berkeleyan&utm_campaign=71c3f36124-berkeleyan&utm_medium=email&utm_term=0_99ee3800d7-71c3f36124-388617225

How Does
Coronavirus
Spread?

■ **Person-to-person**

- **Between people who are in close contact with one another (within about 6 feet).**
- **Through respiratory droplets produced when an infected person *coughs* or *sneezes*.**
- **These droplets can land in the mouths or noses of people who are nearby or possibly be inhaled into the lungs.**



<https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/how-covid-spreads.html>

▼
How does
this
coronavirus
spread?
(Cont.)

Incubation period = 2-14 days

“Someone who completes 14-day COVID-19 quarantine without developing illness is not considered a risk for spreading the virus to others”

Infectious period = Unknown


“People are thought to be most contagious when they are symptomatic (the sickest); the virus has also been detected in asymptomatic persons”

COVID-19 is an “Aerosol Transmissible Disease” (i.e., Diseases that travel through aerosols and are transmitted from one individual to another, either through inhalation or through hand to face contact or contact with contaminated items or surfaces)

To note:

- COVID-19 is currently thought to mainly transmit over short distances (“near-field” contact) and quickly fall out of the air – contrast with other ATDs (e.g., measles can remain in airspace for up to 2 hours after an infected person has left the area)
 - Still a possibility that researchers will discover transmission over longer distances...
- COVID-19 may survive (remain “viable”) on surfaces for up to 9 hours (and maybe even several days)

Source: <https://www.cdc.gov/coronavirus/2019-ncov/index.html>



Current questions about SARS-CoV-2

How far can the virus travel through the air?

How long does the virus remain viable in the air or on surfaces?

Can individuals who are asymptomatic spread the virus?

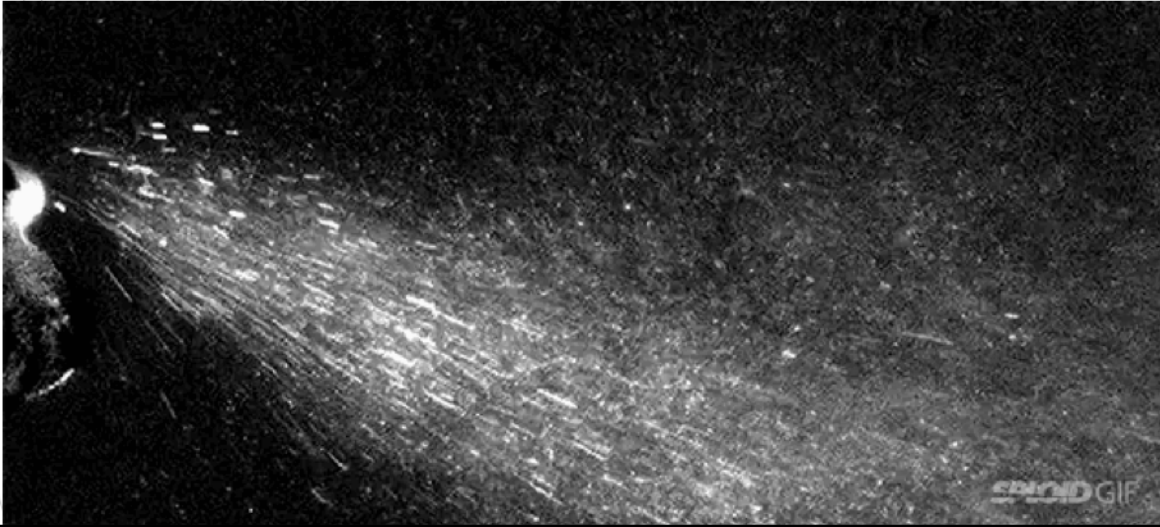
Can individuals become re-infected?

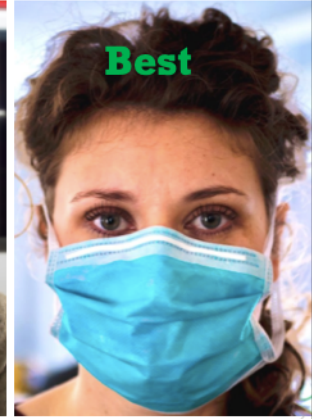
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Source: <https://www.cdc.gov/coronavirus/2019-ncov/index.html>



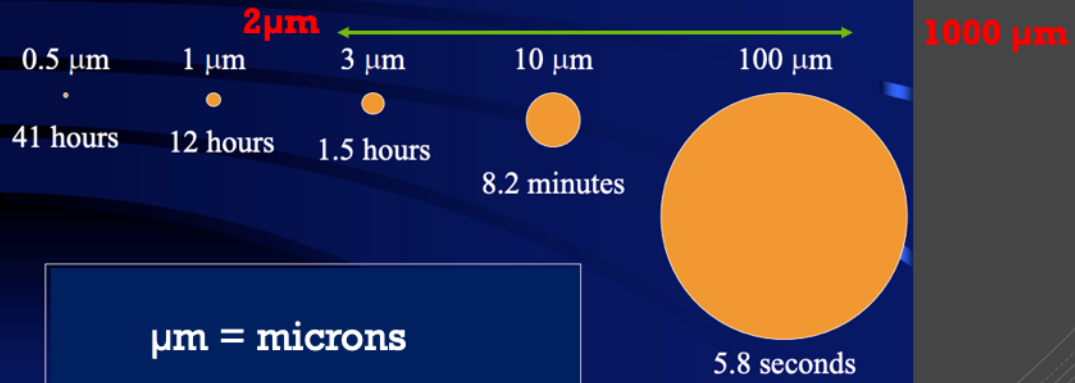


“Cover your Cough” a.k.a. Source Control

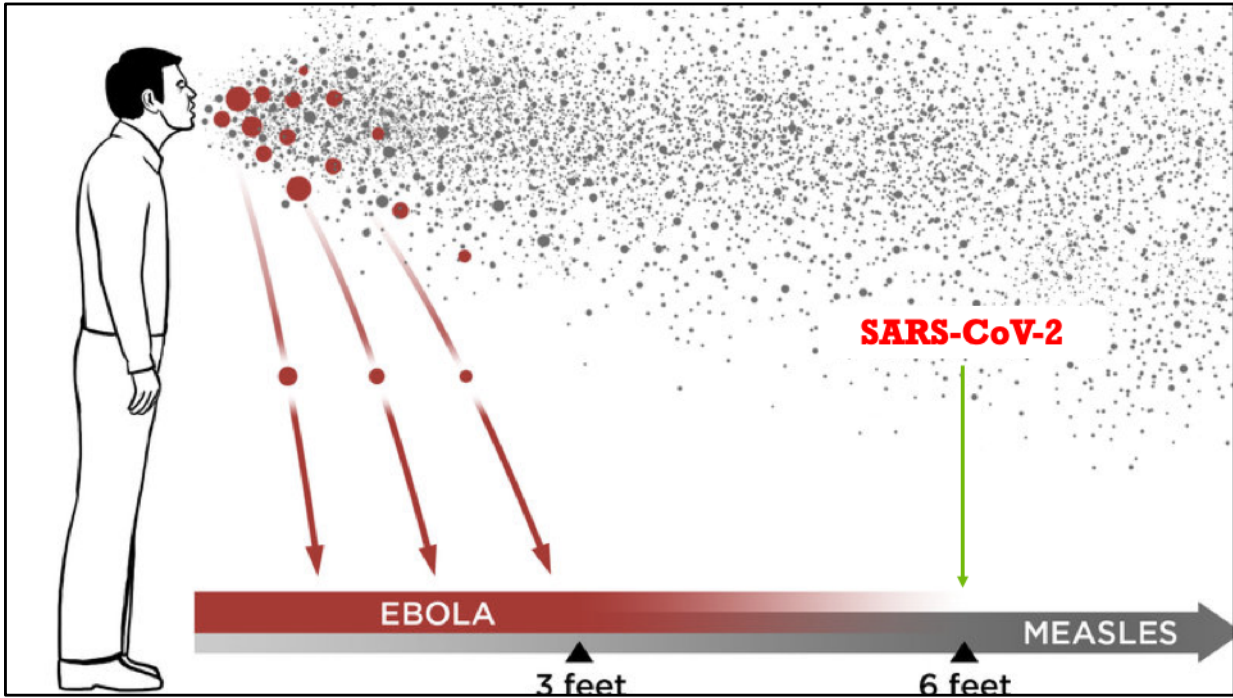


Particle Settling in Still Air

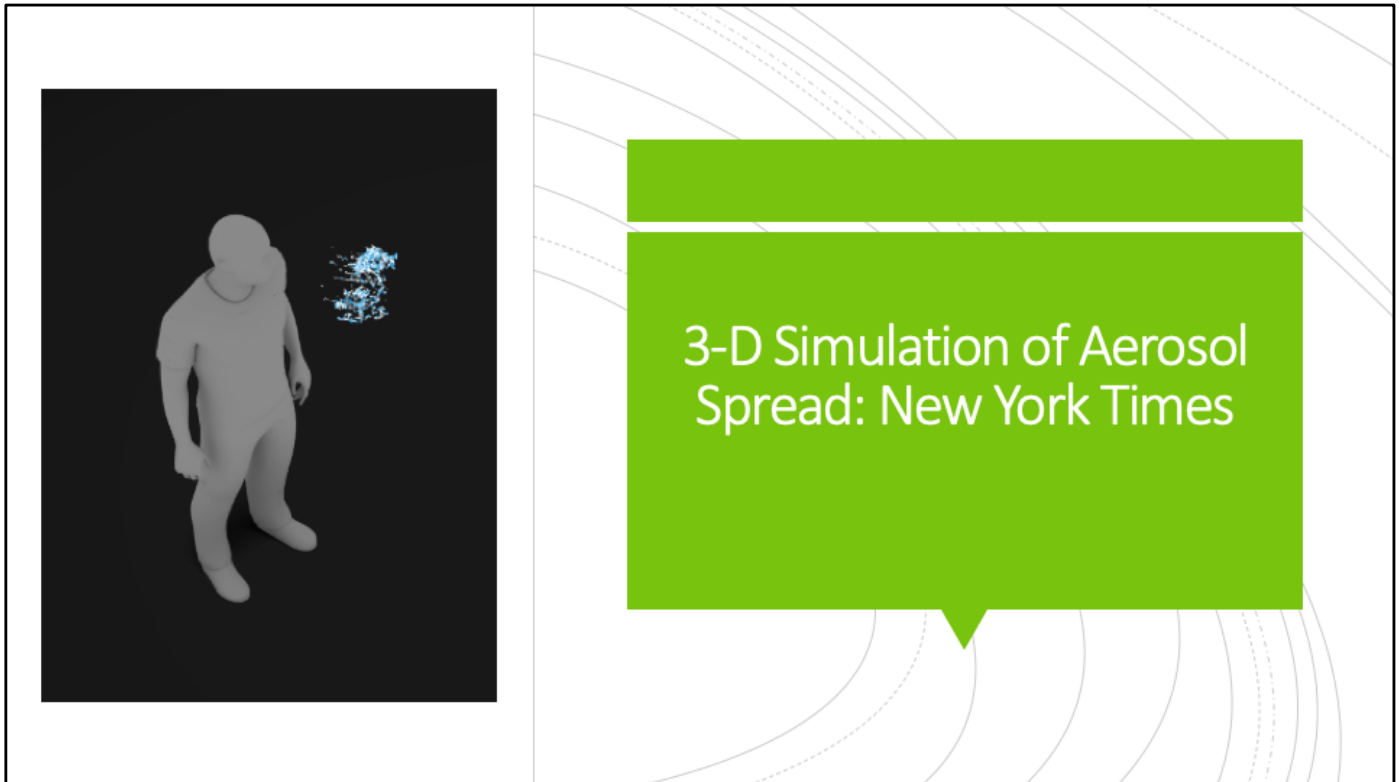
Size of particles emitted from talking, coughing



[Chao et al., 2009](#)



<https://www.npr.org/sections/goatsandsoda/2014/12/01/364749313/ebola-in-the-air-what-science-says-about-how-the-virus-spreads>



EXPLAIN: This video simulation how coughs or sneezes create particulate clouds that travel through the room, expanding outward.

ATDs = Diseases that may travel through aerosols like this and be transmitted from one individual to another, either through inhalation or through hand to face contact or contact with contaminated items or surfaces.

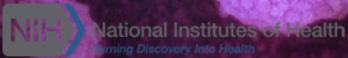
The ATD standard addresses exposures of health care workers and others in higher risk environments to infectious particles that are generated a) spontaneously by patients, b) induced by medical procedures such as bronchoscopy, b) created through use of aerosolized medication or oxygen, or d) created through sputum inductions.

The ATD standard also addresses exposures to these pathogens that are created by hand to face contact or contact with contaminated items or surfaces. One section of the ATD Standard applies to exposures in laboratories, where infectious materials may be concentrated or multiplied in order to diagnose diseases.

“This is not thought to be the main way the virus spreads, but we are still learning more about this virus.”

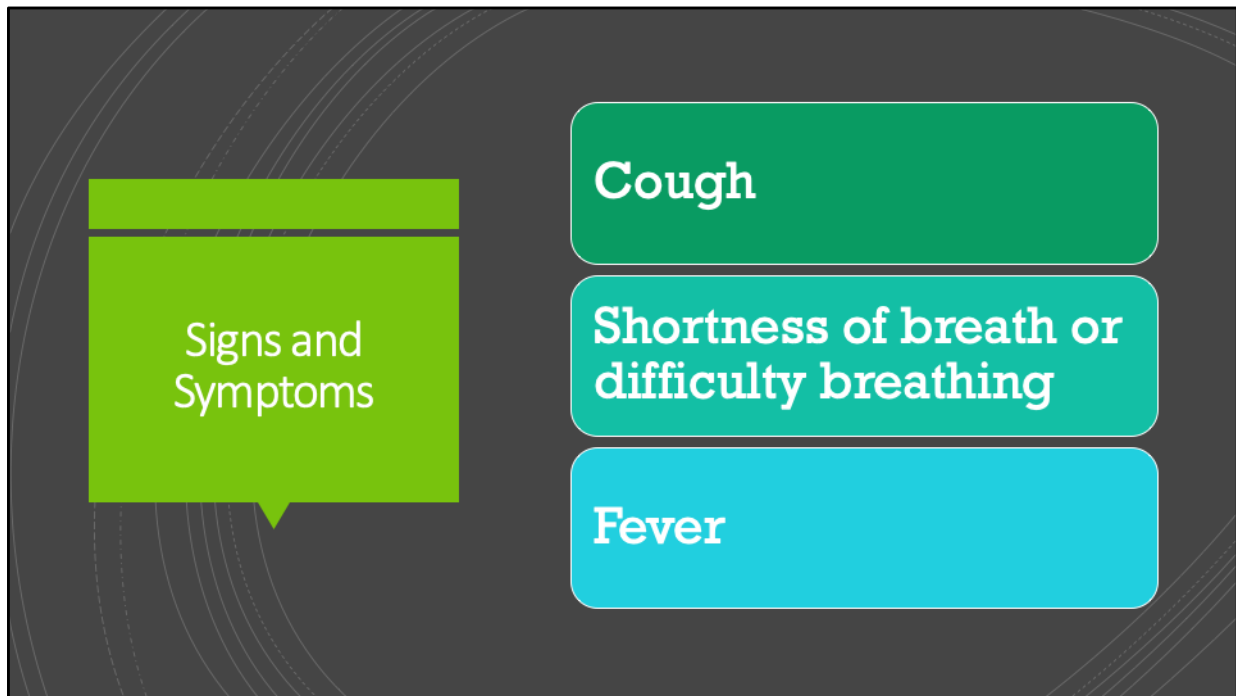
- Scientists found (SARS-CoV-2) was detectable in aerosols for up to three hours, up to four hours on copper, up to 24 hours on cardboard and up to two to three days on plastic and stainless steel.

How else is it transmitted?



<https://www.nih.gov/news-events/news-releases/new-coronavirus-stable-hours-surfaces>

<https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/how-covid-spreads.html>



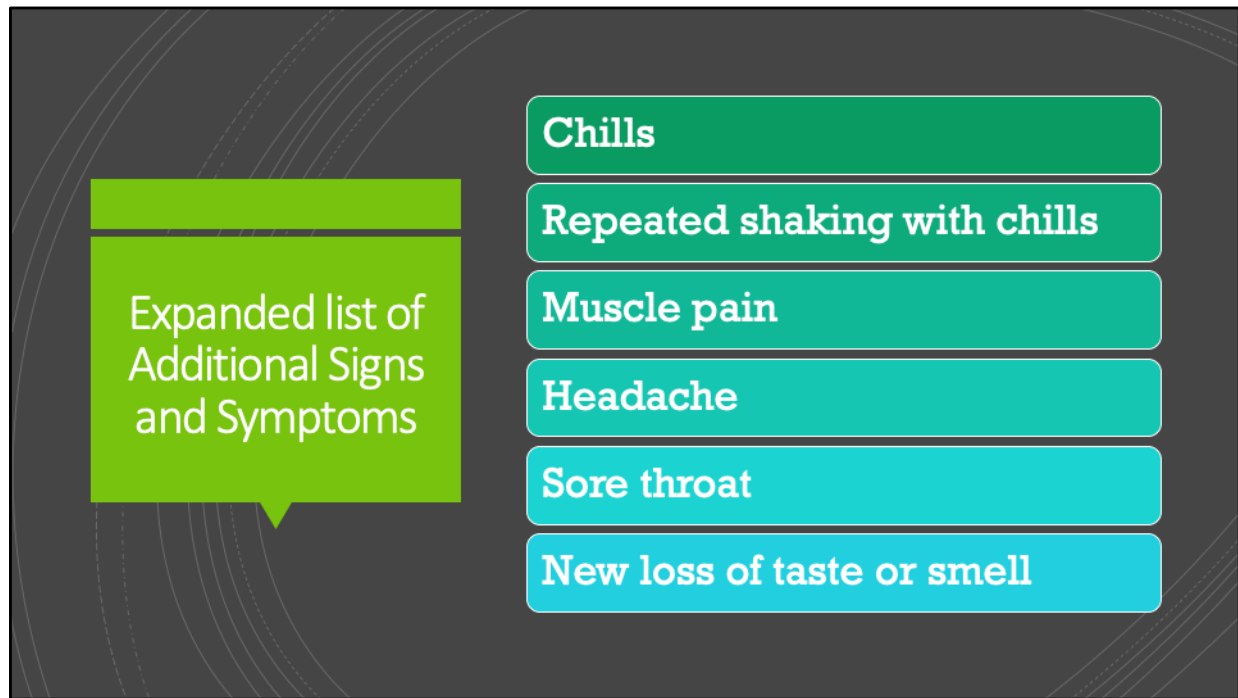
People with COVID-19 have had a wide range of symptoms reported – ranging from mild symptoms to severe illness.

Symptoms may appear **2-14 days after exposure to the virus**. People with these symptoms or combinations of symptoms may have COVID-19:

<https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>

Remind learners that not everyone will experience symptoms, with estimates as high as 33% asymptomatic. (Mizumoto et al, 2020)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7078829/>



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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7078829/>

When to Seek Medical Attention

If you have any of these **emergency warning signs*** for COVID-19 get **medical attention immediately**:

- Trouble breathing
- Persistent pain or pressure in the chest
- New confusion or inability to arouse
- Bluish lips or face

*This list is not all inclusive. Please consult your medical provider for any other symptoms that are severe or concerning to you

<https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>



<https://www.nature.com/articles/d41586-020-00502-w>

Viral RNA levels are highest in people with COVID-19 soon after their symptoms appear, according to two separate research teams.

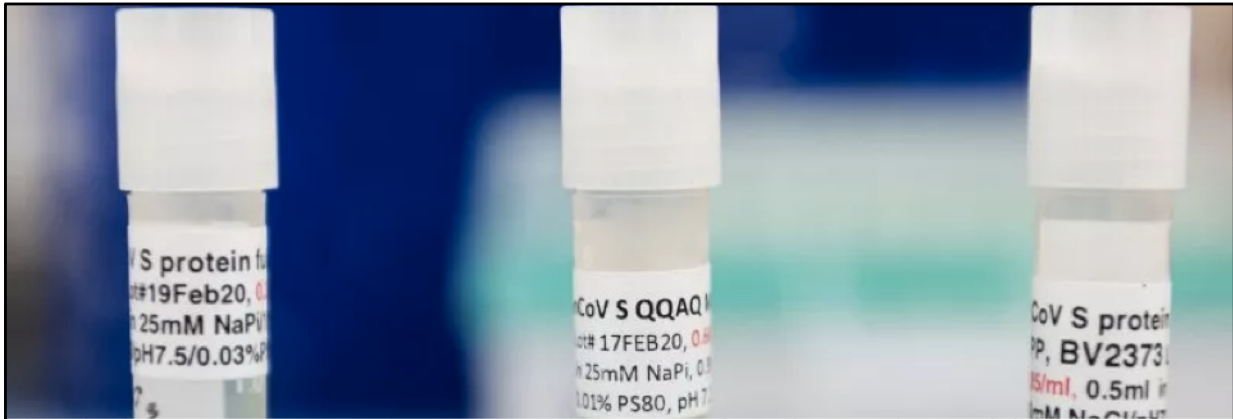
Kwok-Yung Yuen at The University of Hong Kong–Shenzhen Hospital, China, and his colleagues analysed saliva samples coughed up by 23 people infected with SARS-CoV-2. The team found that study participants' viral concentrations peaked shortly after they started feeling ill, and began declining about one week after the peak.

The more viral RNA detected in a person's body, the more they excrete when coughing or sneezing. The authors say that the high levels of SARS-CoV-2 particles detected at the onset of symptoms suggest that the virus can be transmitted easily between people, even when symptoms are relatively mild (K. K.-W. To *et al. Lancet Infect. Dis.* <http://doi.org/ggp4qx>; 2020).



<https://www.niaid.nih.gov/news-events/nih-clinical-trial-shows-remdesivir-accelerates-recovery-advanced-covid-19>

<https://www.gilead.com/>

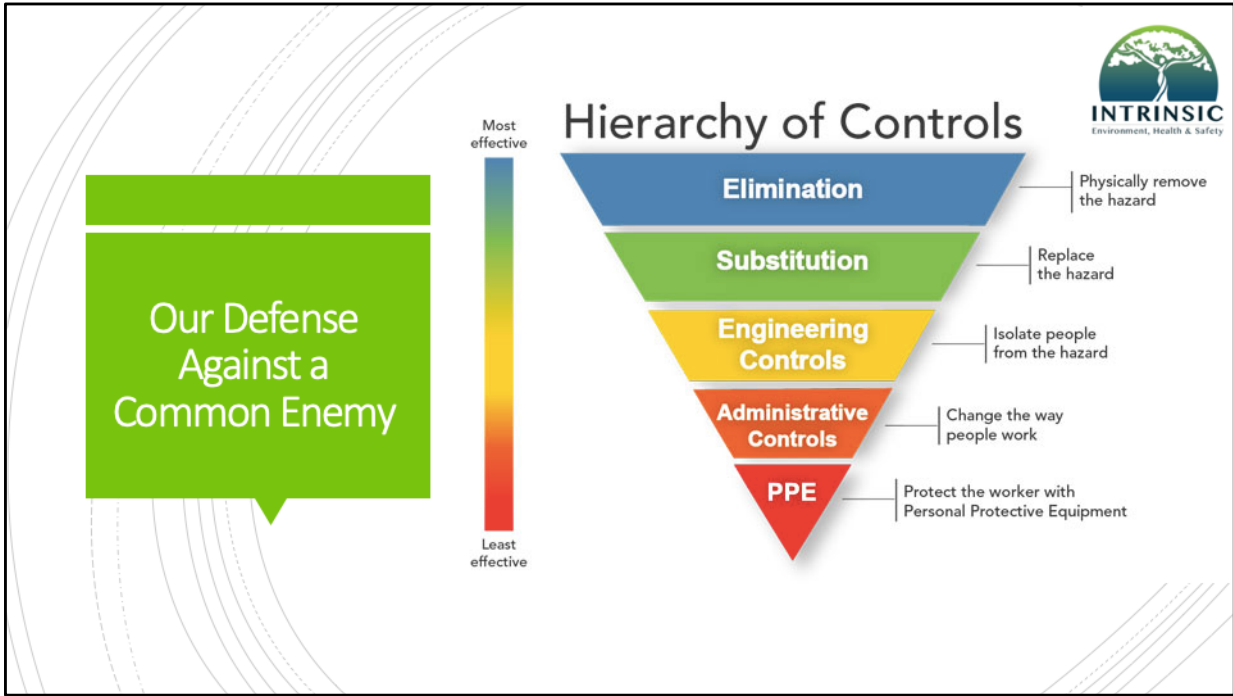


70 potential novel coronavirus vaccines are being developed by the U.S., U.K. and China, according to the latest report from the World Health Organization (WHO).

<https://www.newsweek.com/coronavirus-vaccine-update-progress-covid-19-treatment-1499138>

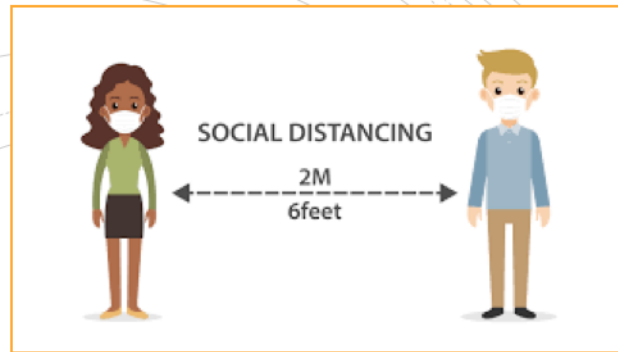


We cannot rely on vaccines, and treatments alone
to fight this pandemic



<https://www.cdc.gov/niosh/topics/hierarchy/default.html>

This is to reinforce the importance of Eliminating the Hazard: staying home when sick, social distancing, source control, and keeping 6ft of distance in between others when outside performing essential functions.



Elimination



Forget 'social distancing.' The WHO prefers we call it 'physical distancing' because social connections are more important than ever



<https://www.cnn.com/2020/04/15/world/social-distancing-language-change-trnd/index.html>



https://www.picturehangingsystems.com/stas-barrier-screen?gclid=EAlaIQobChMlotWTo-fA6AIVKB6tBh3zvAuyEAAAYASAAEgKTZPD_BwE

This illustrates how a seemingly invisible plexiglass barrier can protect workers, and the public from unexpected aerosol generating events (coughing, sneezing). Another recommendation could be to increase ventilation, where feasible.

Administrative Controls

1

**WASHING YOUR
HANDS FOR 20
SECONDS**

2

**USING A >60%
ETHANOL BASED
HAND SANITIZER**

3




**AVOIDING
TOUCHING YOUR
FACE.**

CDC Recommends 60% alcohol based hand sanitizer at a minimum, but recommends 70% isopropanol.

https://www.cdc.gov/coronavirus/2019-ncov/hcp/hand-hygiene.html?CDC_AA_refVal=https%3A%2F%2Fwww.cdc.gov%2Fcoronavirus%2F2019-ncov%2Finfection-control%2Fhcp-hand-sanitizer.html



Understanding the Difference

	 Surgical Mask	 N95 Respirator	 Elastomeric Half Facepiece Respirator
Testing and Approval	Cleared by the U.S. Food and Drug Administration (FDA)	Evaluated, tested, and approved by NIOSH as per the requirements in 42 CFR Part 84*	Evaluated, tested, and approved by NIOSH as per the requirements in 42 CFR Part 84
Intended Use and Purpose	Fluid resistant and provides the wearer protection against large droplets, splashes, or sprays of bodily or other hazardous fluids. Protects the patient from the wearer's respiratory emissions.	Reduces wearer's exposure to particles including small particle aerosols and large droplets (only non-oil aerosols)	Reusable device made of synthetic or rubber material
Face Seal Fit	Loose-fitting	Tight-fitting	Tight-fitting

<https://www.cdc.gov/niosh/npptl/pdfs/UnderstandingDifference3-508.pdf>

Face Covering Do's and Don'ts:

DO: 

- ✓ Make sure you can breathe through it
- ✓ Wear it whenever going out in public
- ✓ Make sure it covers your nose and mouth
- ✓ Wash after using

DON'T:

- ✗ Use if under two years old
- ✗ Use surgical masks or other PPE intended for healthcare workers

 [cdc.gov/coronavirus](https://www.cdc.gov/coronavirus)

Face Coverings

<https://www.cdc.gov/coronavirus/2019-ncov/images/face-covering-checklist.jpg>



U.S. Surgeon General Jerome Adams Demonstrates How to Make a Cloth Face Covering

<https://www.facebook.com/CDC/videos/1265861866938492/?v=1265861866938492>



<https://www.health.pa.gov/topics/disease/coronavirus/Pages/Social-Media.aspx>



What about gloves?

Experts say gloves don't make sense for most people to wear.

Using your ungloved hands – and then washing them often – is the best bet for the typical tasks of everyday life.

<https://www.npr.org/sections/goatsandsoda/2020/04/10/832003425/coronavirus-faqs-do-gloves-help-is-it-allergies-or-covid-19>



ORDER OF THE HEALTH OFFICER NO. 20-10

**ORDER OF THE HEALTH OFFICER
OF THE COUNTY OF ALAMEDA DIRECTING
ALL INDIVIDUALS IN THE COUNTY TO CONTINUE SHELTERING AT
THEIR PLACE OF RESIDENCE EXCEPT FOR ESSENTIAL NEEDS AND
IDENTIFIED OUTDOOR ACTIVITIES IN COMPLIANCE WITH
SPECIFIED REQUIREMENTS; CONTINUING TO EXEMPT HOMELESS
INDIVIDUALS FROM THE ORDER BUT URGING GOVERNMENT
AGENCIES TO PROVIDE THEM SHELTER; REQUIRING ALL
BUSINESSES AND RECREATION FACILITIES THAT ARE ALLOWED
TO OPERATE TO IMPLEMENT SOCIAL DISTANCING, FACE
COVERING, AND CLEANING PROTOCOLS; AND DIRECTING ALL
BUSINESSES, FACILITY OPERATORS, AND GOVERNMENTAL
AGENCIES TO CONTINUE THE TEMPORARY CLOSURE OF ALL
OTHER OPERATIONS NOT ALLOWED UNDER THIS ORDER**

DATE OF ORDER: APRIL 29, 2020

**Order of the
Health Officer**



Some examples of “Essential Businesses”:

Healthcare Operations	Grocery stores	Gas stations and auto-supply, auto-repair	Bicycle repair and supply shops
Banks and related financial institution	Construction	Newspapers, Television, Radio	Service providers that enable real estate transactions
Businesses providing mailing and shipping services,	Educational institutions	Laundromats, drycleaners	Restaurants

<http://www.acphd.org/media/572718/health-officer-order-20-10-shelter-in-place-20200429.pdf>

Refer back to the Order for the complete list



Social Distancing Protocol: Appendix A

h. For the purposes of this Order, all businesses...visited...by the public...must...prepare and post a "Social Distancing Protocol"

Appendix A: Social Distancing Protocol (Updated April 29, 2020)

Business name: [Click or tap here to enter text.](#)

Facility Address: [Click or tap here to enter text.](#)

Approximate gross square footage of space open to the public: [Click or tap here to enter text.](#)

Businesses must implement all applicable measures listed below, and be prepared to explain why any measure that is not implemented is inapplicable to the business.

Signage:

Signage at each public entrance of the facility to inform all employees and customers that they should: avoid entering the facility if they have COVID-19 symptoms; maintain a minimum six-foot distance from one another; sneeze and cough into a cloth or tissue or, if not available, into one's elbow; wear face coverings, as appropriate; and not shake hands or engage in any unnecessary physical contact.

Signage posting a copy of the Social Distancing Protocol at each public entrance to the facility.

Measures To Protect Employee Health (check all that apply to the facility):

Everyone who can carry out their work duties from home has been directed to do so.

All employees have been told not to come to work if sick.

Symptom checks are being conducted before employees may enter the work space.

Employees are required to wear face coverings, as appropriate.

All desks or individual work stations are separated by at least six feet.

Break rooms, bathrooms, and other common areas are being disinfected frequently, on the following schedule:

Break rooms:

Bathrooms:

Other ([Click or tap here to enter text.](#)): [Click or tap here to enter text.](#)

Disinfectant and related supplies are available to all employees at the following location(s): [Click or tap here to enter text.](#)

Hand sanitizer effective against COVID-19 is available to all employees at the following location(s): [Click or tap here to enter text.](#)

Soap and water are available to all employees at the following location(s): [Click or tap here to enter text.](#)

Copies of this Protocol have been distributed to all employees.

Optional—Describe other measures: [Click or tap here to enter text.](#)

Measures To Prevent Crowds From Gathering (check all that apply to the facility):

Limit the number of customers in the store at any one time to [Click or tap here to enter text.](#), which allows for customers and employees to easily maintain at least six-foot distance from one another at all practicable times.

Post an employee at the door to ensure that the maximum number of customers in the facility set forth above is not exceeded.

<http://www.acphd.org/2019-ncov/shelter-in-place.aspx>



Appendix A:
Social
Distancing
Protocol
(Updated April
29, 2020)

- ***Signage***
- ***Measures To Protect Employee Health***
- ***Measures To Prevent Crowds From Gathering***
- ***Measures To Keep People At Least Six Feet Apart***
- ***Measures To Prevent Unnecessary Contact***
- ***Measures To Increase Sanitization***

<http://www.acphd.org/2019-ncov/shelter-in-place.aspx>

The graphic features a background of concentric circles. In the top left is the INTRINSIC logo (Environment, Health & Safety). In the top center is the City of Seattle logo. In the top right is the City of Seattle Department of Public Health logo. A large green speech bubble on the left contains the text: "The Social Distancing Protocol must explain how the business is achieving the following". To the right of the speech bubble is a list of eight numbered items (i-viii) detailing social distancing measures.

INTRINSIC
Environment, Health & Safety

CITY OF SEATTLE
DEPARTMENT OF PUBLIC HEALTH

The Social Distancing Protocol must explain how the business is achieving the following

- i. Limiting the number of people who can enter into the facility at any one time to ensure that people in the facility can easily maintain a minimum six-foot distance from one another at all times, except as required to complete Essential Business activity;
- ii. Requiring face coverings to be worn by all persons entering the facility, other than those exempted from face covering requirements (e.g. young children);
- iii. Where lines may form at a facility, marking six-foot increments at a minimum, establishing where individuals should stand to maintain adequate social distancing;
- iv. Providing hand sanitizer, soap and water, or effective disinfectant at or near the entrance of the facility and in other appropriate areas for use by the public and personnel, and in locations where there is high-frequency employee interaction with members of the public (e.g. cashiers);
- v. Providing for contactless payment systems or, if not feasible to do so, the providing for disinfecting all payment portals, pens, and styluses after each use;
- vi. Regularly disinfecting other high-touch surfaces;
- vii. Posting a sign at the entrance of the facility informing all personnel and customers that they should: avoid entering the facility if they have any COVID-19 symptoms; maintain a minimum six-foot distance from one another; sneeze and cough into one's elbow; not shake hands or engage in any unnecessary physical contact; and
- viii. Any additional social distancing measures being implemented (see the Centers for Disease Control and Prevention's guidance at: <https://www.cdc.gov/coronavirus/2019-ncov/community/guidance-business-response.html>).

<http://www.acphd.org/media/572718/health-officer-order-20-10-shelter-in-place-20200429.pdf>



i. Limiting the number of people who can enter into the facility...



Restaurant is requiring masks.



iii. ...establishing where individuals should stand to maintain adequate social distancing

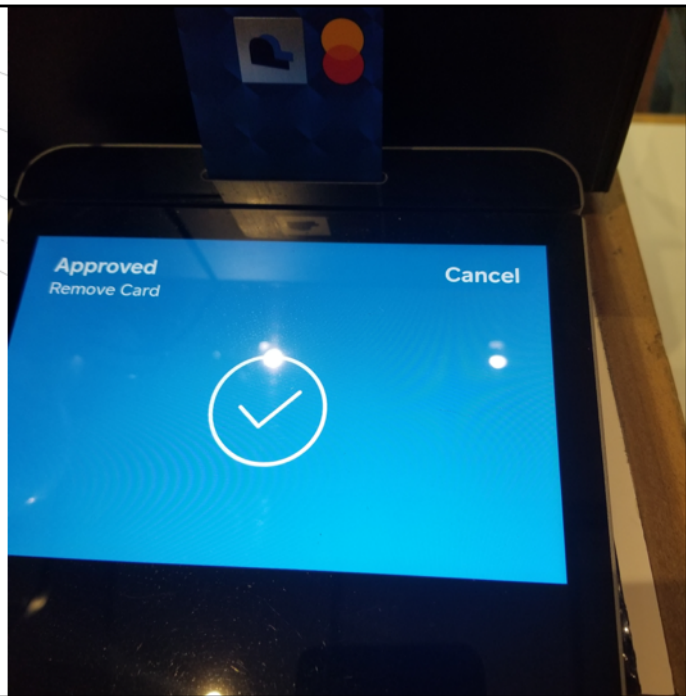




v. Providing for contactless payment systems...



v...or, if not feasible to do so,
the providing for
disinfecting all payment
portals, pens, and styluses
after each use;





vii. Posting a sign at the entrance of the facility informing all personnel and customers that they should: avoid entering the facility if they have any COVID-19 symptoms; ...



Other great ideas!

THE CHURCH ON THE CORNER IS CLOSED
FOR THE SHELTER-IN-PLACE ORDER.

SUNDAY SERVICES ARE NOW
LIVE ONLINE!



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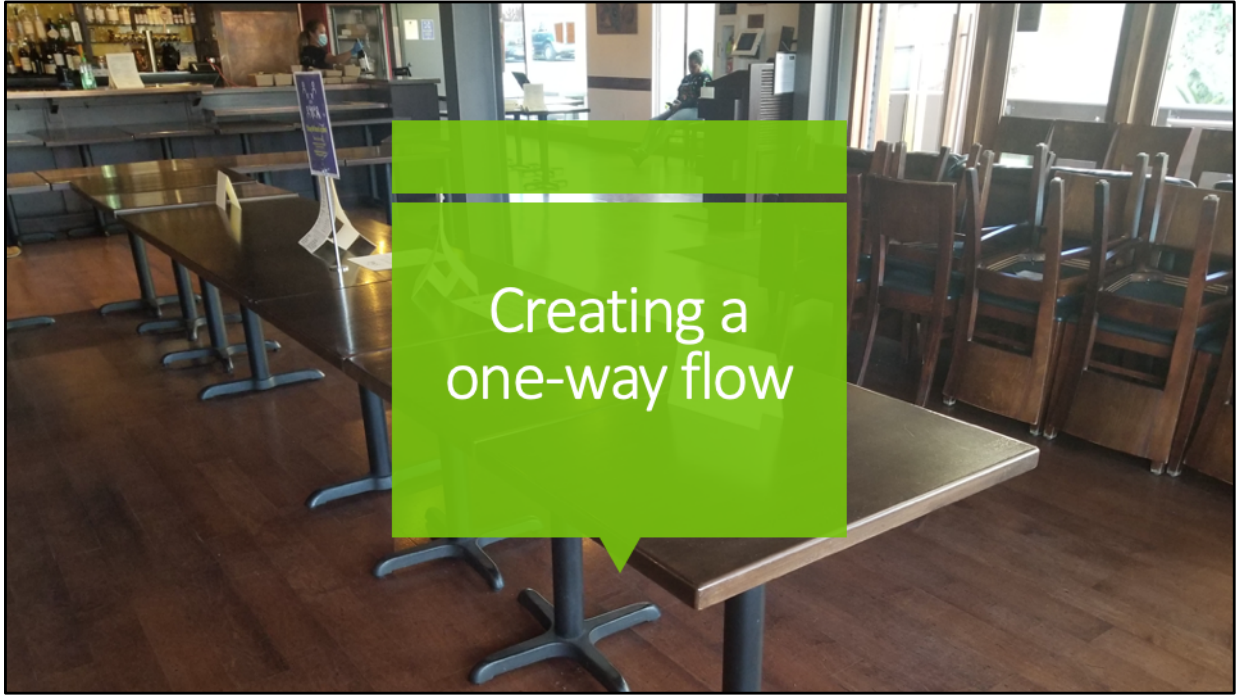
albanyaq3@gmail.com

Albany Aquarium

Curbside pick-up daily: Noon-4 PM

We appreciate your support during this unprecedented time. Help support our local business by purchasing a gift card to use at a later date. We have curbside pickup available daily to remain **#sociallydistant**. We're still here for you!

Curbside
Pick-up





<https://www.vox.com/recode/2020/4/14/21211789/coronavirus-office-space-work-from-home-design-architecture-real-estate>



Summary of CDC Reopening Guidance

- **Normal routine cleaning with soap and water removes germs and dirt from surfaces.**
- [EPA-approved disinfectants](#) are an important part of reducing the risk of exposure to COVID-19.
- If disinfectants are in short supply, alternative disinfectants can be used
- Store and use according to the label.
- Do not mix bleach or other cleaning and disinfection products together—this can cause fumes that may be very dangerous to breathe in.
- Don't stockpile disinfectants or other supplies. This can result in shortages of appropriate products for others to use in critical situations.
- Always wear gloves appropriate for the chemicals being used when you are cleaning and disinfecting. Additional PPE may be needed based on setting and product. For more information, see [CDC's website on Cleaning and Disinfection for Community Facilities](#)

[Summary of CDC's Reopening Guidance for Cleaning and Disinfecting Public Spaces, Workplaces, Businesses, Schools, and Homes](#)

▪ **Develop Your Plan**

▪ **Determine what needs to be cleaned**

▪ **Has the area been unoccupied for the last 7 days?**

▪ **Examples of frequently touched surfaces and objects that will need routine disinfection following reopening are:**

- tables,
- doorknobs,
- light switches,
- countertops,
- handles,
- desks,
- phones,
- keyboards,
- toilets,
- faucets and sinks,
- gas pump handles,
- touch screens, and
- ATM machines



Summary of
CDC
Reopening
Guidance
cont.

[Summary of CDC's Reopening Guidance for Cleaning and Disinfecting Public Spaces, Workplaces, Businesses, Schools, and Homes](#)

INTRINSIC
Environment, Health & Safety

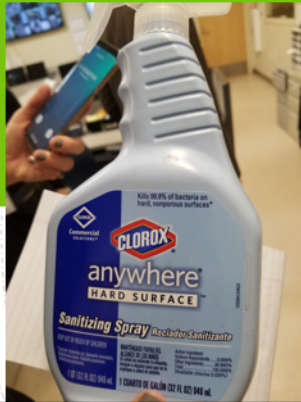
Other things to consider

Don't waste your artisanal Mezcal,
it's not 70%!!!

col for
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alternatives
materials
y in areas
t

<https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/cleaning-disinfection.html>

A note on Bleach



- CDC notes that bleach solutions will be effective for disinfection up to 24 hours
- [Rutala et al.](#) found that the concentration of available chlorine of bleach diluted 1:100 with tap water, was reduced to ~40% of the original concentration when stored in translucent spray or wash bottles for 30 days.
- Contrarily, bleach will retain 97% of its free available chlorine for up to 30 days if stored in a closed, opaque container, given that exposure to light will deactivate bleach.



Gov. Gavin Newsom is deciding whether to order that essential employees who contract coronavirus be presumed to have done so on the job — and thus automatically qualify for workers' comp benefits. Businesses warn that could cost billions.

<https://calmatters.org/health/coronavirus/2020/04/essential-workers-comp-covid-california-newsom-coronavirus-benefits-presumption-order/>

Stop the Spread of Germs

Help prevent the spread of respiratory diseases like COVID-19.

The infographic is a grid of six panels. Top-left: Two people, one coughing into their elbow, with a red 'X' over them. Top-right: A person coughing into a tissue. Middle-left: A hand touching the eye, nose, or mouth with a red 'X' over it. Middle: A person wearing a cloth face covering. Middle-right: A hand being sprayed with disinfectant. Bottom-left: A house with a person inside, and a red 'X' over the house. Bottom-right: Hands being washed with soap and water. The CDC logo is in the bottom left, and the URL 'cdc.gov/coronavirus' is in the bottom right.

- If you are sick, stay home!
- Avoid close contact with people who are sick.
- Cover your cough.
- Avoid touching your eyes, nose, and mouth.
- When in public, wear a cloth face over your nose and mouth.
- Clean and disinfect frequently touched objects and surfaces.
- Wash your hands often with soap and water for at least 20 seconds.

<https://www.cdc.gov/coronavirus/2019-ncov/downloads/stop-the-spread-of-germs.pdf>

Resources



- [CDC: Coronavirus \(COVID-19\)](#)
 - [FAQ](#)
 - [Reopening Guidance for Cleaning and Disinfecting Public Spaces, Workplaces, Businesses, Schools, and Homes](#)
- [Alameda County Public Health Department](#)
- [EPA: List N: Disinfectants for Use Against SARS-CoV-2](#)
- [AIHA Coronavirus Outbreak Resource Center](#)
 - [Back to Work Safely](#)
- [Everything Albany](#)
- [FACE COVERING ORDER FAQS & SIGNS](#)



Academic Resources

- [Nature: Pick of the coronavirus papers](#)
- [COVID-19 United States Cases by County Johns Hopkins University](#)
- [The Institute for Health Metrics and Evaluation \(IHME\) at the University of Washington.](#)
- [California Coronavirus \(COVID-19\) Response](#)
- [UCLA Labor Occupational Safety & Health Program](#)
- [International Facility Management Association. RECOVERY READINESS A HOW-TO GUIDE FOR REOPENING YOUR WORKPLACE](#)

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could have meaning if a
preponderance of
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Questions?

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PROTECTING PEOPLE, PLACE & PLANET