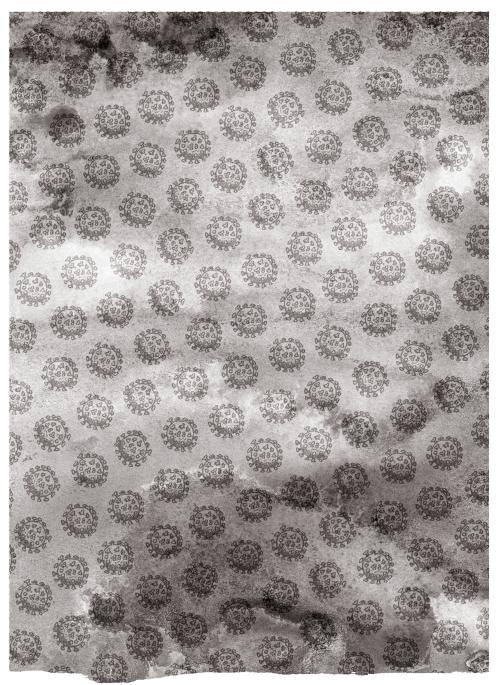
# WHY WE MASK: IT'S NOT

ETTSTA COLD®



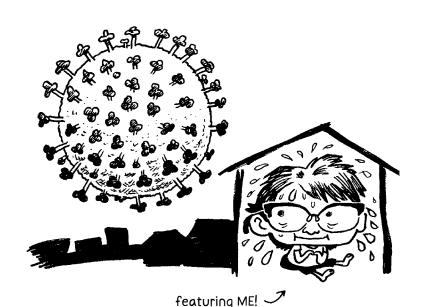


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# WHY WE MASK: IT'S NOT "JUST A COLD"

A Handy Scientific Guide To Surviving COVID-19 Together



#### DISCLAIMER:

I am not a doctor or scientist, and this zine is not intended as a replacement for medical care. The illustrations aren't 100% to scale because I've cartoonified things for clarity. However, I based my work on free peer-reviewed scientific papers, cited inthe Endnotes (pg 22) and online here:

laurellynnleake.com/whywemask

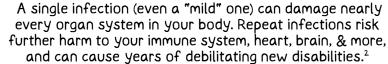




### THE BASICS:



COVID-19 is a viral illness caused by SARS-CoV-2, and it spreads primarily through the air.<sup>1</sup>





At least 75% of all adults are "high risk" for severe COVID-19 infections, which can leave you hospitalized, disabled for life, or dead.<sup>3</sup>



Also, since nearly half of COVID-19 cases are asymptomatic, you could be infected and contagious without ever realizing you're sick.







SARS-)(CoV-)



Severe Acute Respiratory Syndrome Corona Virus (crown-shaped, round with spikes) similar to 2002-2003 SARS-CoV outbreak



### THE ILLNESS:

CO (VI) D (19)



ah...

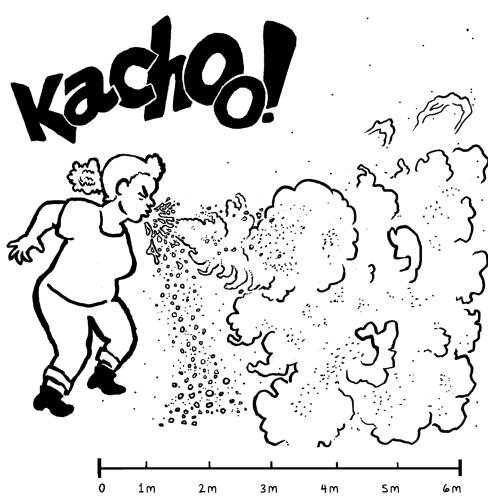
Corona

Virus

Disease

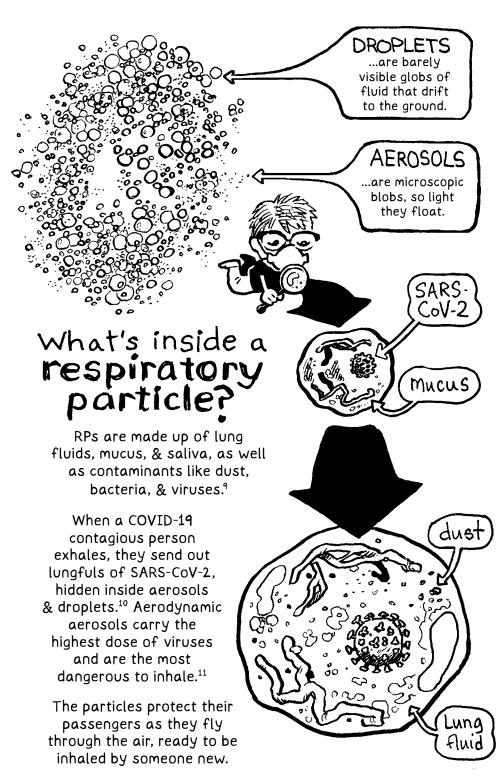
discovered in 2019

# COVEDOTO is an AIRBORNE ILLNESS.



It spreads when infected people exhale, cough, or sneeze plumes of tiny RESPIRATORY PARTICLES. You can shed hundreds of viruses in a single minute, just by breathing.

And sneezing can send viral gunk flying up to 6m (20ft)! Once they're in the air, the tiniest RPs can linger in poorly ventilated spaces for HOURS...invisible to the naked eye.<sup>7,8</sup>



## SYMPTOMS

COVID-19's ACUTE PHASE symptoms start about 3-6 days after infection, & last about 12-14 days. <sup>12</sup> Symptoms & periods of contagiousness can differ by variant, but include... <sup>13</sup>



4

# A SEVERE SYMPTOMS A



STRAINED AND/OR RAPID BREATHING, WHEEZING

> CHEST PAIN AND/OR PRESSURE

PNEUMONIA (fluid in the lungs)

### HYPOXEMIA

COVID-19 can impair O<sup>2</sup> flow to your blood, even w/o obvious breathing issues.

LOW BLOOD OXYGEN symptoms can cause organ failure and even death w/o treatment.

Measure BLOOD OXYGEN LEVELS at home with a PULSE OXIMETER:



91-94% = concerning 90% and under = emergency!!

### WARNING:

Oximeters may give FALSELY HIGH READINGS to people with dark skin &/or painted nails.16

Hypoxemia symptoms include:

CONFUSION OR DISORIENTATION



CYANOSIS

PALE, GREY, or BLUE-TINTED TONGUE, LIPS, &/or NAILBEDS, depending on skintone.<sup>17</sup>



RACING HEART





ALL THESE REQUIRE EMERGENCY HOSPITALIZATION!





# When you breathe in ...

...air enters your RESPIRATORY TRACT, rushing down your TRACHEA (aka windpipe) before splitting off into the twin BRONCHI of the lungs.

Most of the tract is lined with undulating "hairs" called CILIA, which are coated with a slimy layer of protective MUCUS.

They work together to capture pathogens (bacteria, viruses, mold) and irritating particles (pollen, dust) in clumps of gunk you then eject by coughing &/or sneezing.

But even if these defenses manage to snag the particles, they haven't neutralized the real threat hidden inside.

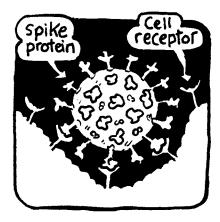
Trachea

Respiratory particles 5





The droplets and aerosols start to dissolve in the warm, wet environment of the respiractory tract...and the SARS-CoV-2 viruses break free! They kick off the initial COVID-19 infection by attacking any nearby cells.<sup>23</sup>



SARS-CoV-2 uses
SPIKE PROTEINS like lockpicks
to trick cells into "unlocking"
their outer membranes.

Once inside, the viruses re-program the cells to pump out more viruses. They swell until they burst, spreading viruses everywhere.<sup>24</sup>

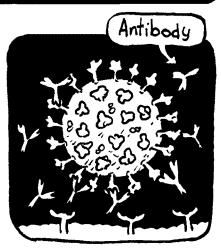


# VACCINES — %

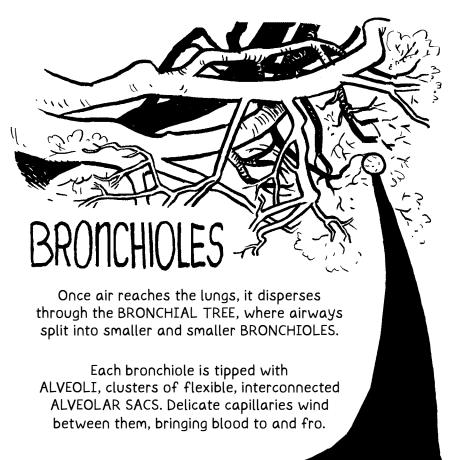
Most COVID-19 vaccines teach our immune systems to create defensive ANTIBODIES that lock onto the spikes, rendering them useless.

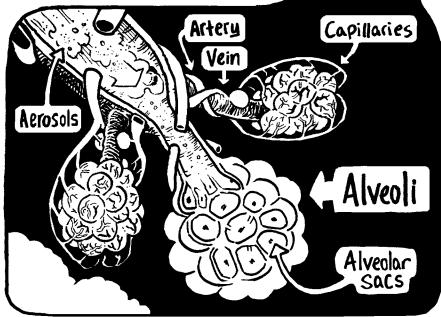
Antibodies don't stop every single virus, but they make a difference! Vaccinated people have much better chances of surviving initial infections.<sup>25</sup>

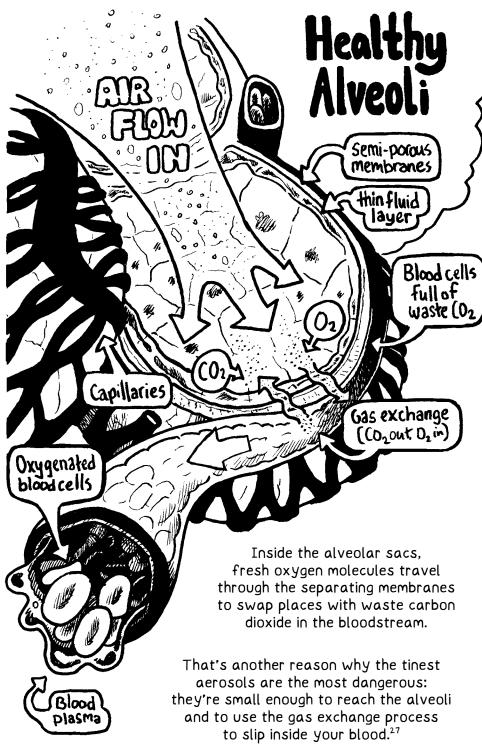
But now we're dealing with 5 years worth of dangerously mutated VIRAL VARIANTS like Delta, Omicron, Pirola, & FLiRT! Our outdated antibodies can't lock onto all the newfangled spike proteins anymore...<sup>26</sup>



...So infections keep spreading, and scientist race to keep up with booster vaccines that can handle the latest variants.





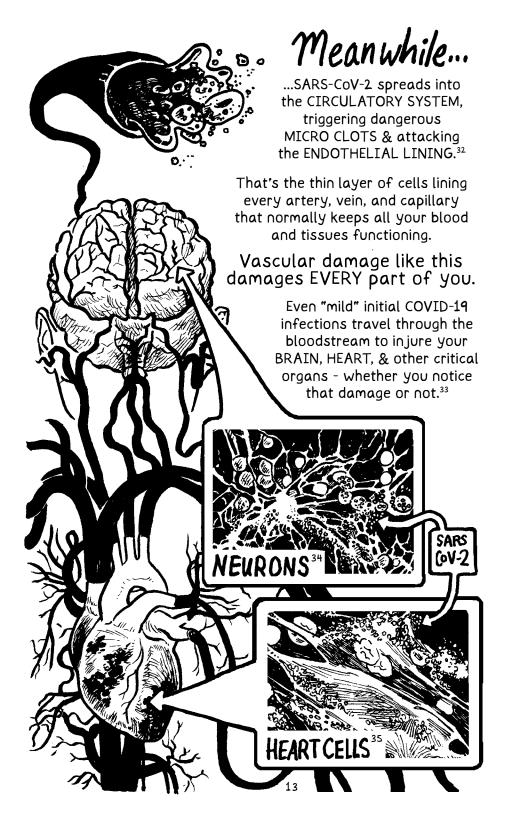


Our body launches into defensive action, but variants excel at turning our IMMUNE CELLS against themselves in an escalating CYTOKINE STORM.<sup>28</sup>

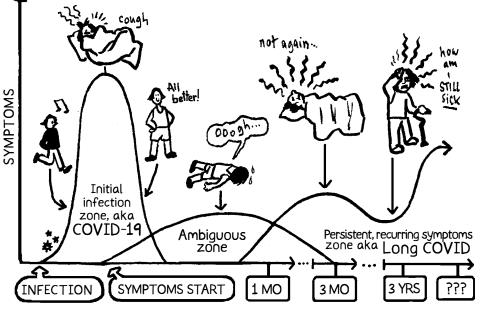
Infected, dying cells release CYTOKINES (chemical signals) that summon immune cells...which get attacked by viruses, so they summon even MORE immune cells...!<sup>29</sup>

The inflamed alveoli try to flush the invaders out with fluids, but that results in a suffocating state called PNEUMONIA. The swollen, pus-filled alveolar sacs struggle to continue exchanging  $O_{\overline{2}}CO_{\overline{2}}$  through their damaged walls. Without treatment, this can end in death.





# LASTING EFFECTS

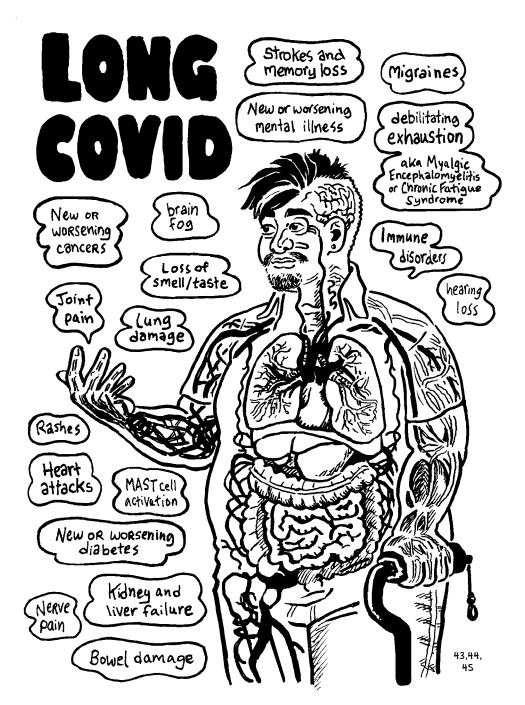


At least 10-30% of people who survive COVID-19 report symptoms reappearing months or even YEARS later, regardless of their age or health. Many have had their lives changed for the worse...maybe permanently.<sup>36,37,38</sup>

Long COVID (aka POST-COVID SYNDROME or POST-ACUTE SEQUELAE OF SARS-COV-2) varies wildly from person to person, but lung damage, strokes, heart attacks, immune dysfunction, and debillitating exhaustion are common. We're only just beginning to understand it as a POST-VIRAL ILLNESS like Shingles (caused by the Chickenpox virus) & AIDS (caused by HIV).

Vaccines lower the likelihood of long-term damage, but don't eliminate it.<sup>39</sup> Long COVID hits marginalized people the hardest, and we often go undiagnosed & untreated due to systemic bigotry in healthcare.<sup>40,41,42</sup>





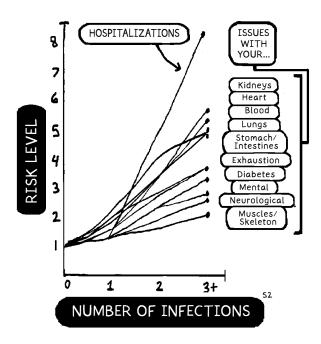
As of 2024, we keep discovering new ways Long COVID damages the body, but we still don't have a "cure". There are many ways to treat the symptoms (primarily serious, extended REST<sup>46,47,48</sup>), but no silver bullet to reverse damage.

# THE DAMAGE GETS WORSE WITH EVERY NEW INFECTION

Most people don't know that SARS-CoV-2 damage is CUMULATIVE.

So every new infection raises the odds you'll be hit by horrible new health complications that may become permanent.<sup>49,50</sup>

Even infections that feel like "just a cold" or "allergies" can cause trouble down the line.<sup>51</sup>



An easy or entirely asymptomatic initial infection may mean your immune system barely even activated to fight off the virus. Long after you recover from the "mild" symptoms, inactive viral debris can remain throughout your body.<sup>53</sup>



These are VIRAL RESERVOIRS: Leftover viruses & spike proteins that collect in your muscles, bones, & organs, ready to reinfect you whenever your immune system gets stressed.



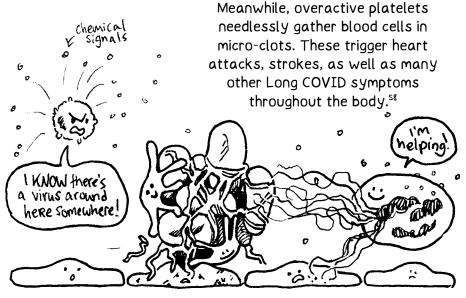
#### Immune Dysregulation

COVID-19 infections can leave your immune system depleted and unable to fight off much of anything.<sup>ss</sup>

Exhausted T-cells can miss invading pathogens like bacteria or other viruses.

They might even "reset" and forget how to handle infections they've fought off before. 56

COVID-19 infections can also leave you with a fired up immune system in constant high alert (aka AUTOIMMUNITY). Your T-cells and neutrophils may attack healthy cells causing systemic inflammation, especially when triggered by old virus debris.<sup>57</sup>





Just like how each Swiss cheese slice has holes, no single protection method against SARS-CoV-2 works 100% perfectly. So we stack together methods until we've covered up all the holes, and maximized protection!



### COMMUNITY CARE

To survive this pandemic, we must follow the lead of Disability Justice and survive TOGETHER.

That means all of us - the infants and toddlers too young to mask, the disabled and the neurodiverse, Black and Indigenous people, all people of color, queer and trans people, sex workers, pregnant people, immunocompromised people, the undocumented, the unhoused, the incarcerated and institutionalized...

People forced into constant exposure at home, work, and school until they've lost count of infections, people forced into indefinite isolation because one infection could kill them or permanently change their life for the worse, people who get fired when they run out of sick days and evicted when they run out of money...

Everyone abused by our medical industry and abandoned by our governments.

All of us.

So why do we mask?
Because we refuse to accept
a world where any one
of us is disposable.

We fight for a future where we all survive - together.



## RESOURCES

ENDNOTES with all works cited, plus useful GUIDES & TOOLS, For a web version with working URLS, use the link or scan the QR code:

laurellynnleake.com/whywemask



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### Guides & Tools

For currently sick &/or chronically ill people:
END VIRAL EUGENICS Database - tinyurl.com/currentlysick
Find COVID-19 Medications (USA) - treatments.hhs.gov/
Drug Interaction Checker - Covid19-DrugInteractions.org/checker
COVID Safe Providers - covidsafeproviders.com/
Treatment Research - C19early.org/
Long COVID Physio - LongCovid.physio/pacing/

Mask buying/fitting resources:

Mask Database - tinyurl.com/maskdb

Respirator Repository - tinyurl.com/PDXMaskLibrary

Buy Lower Cost Masks (USA) - linktr.ee/buymasks

reddit.com/r/Masks4All/ - (caution: advice very white cis man centric)



#### Other resources:

CleanAirCrew.org/ - Recommendations & DIY guides for air filtration

What's Up With COVID & How To Protect Yourself, 2024 Ed newlevant.com/COVIDzine - Hazel Newlevant's excellent free printable COVID minicomic! Includes advanced safety tips (ex: nasal sprays, CPC mouthwash, air circulation/filtration). (English/Español)

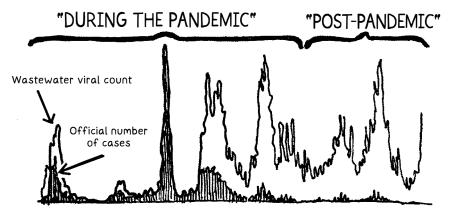
We Keep Each Other Safe - ForwardTogether.org/tools/we-keep-each-other-safe/ A Guide By & For Black, Indigenous, Latinx, POC & LGBTQ Communities. From 2020 but still very relevant (English/Español)

How To Get On — howtogeton.wordpress.com/
Lily Silver's self-advocacy guide for homebound/bedbound people,
ME/CFS focused but helpful for all disabilities. Covers financial aid,
affordable housing, medical care, mobility devices, etc. (USA)

Mutual aid databases ("global", always updating): COVID Action Map - t.co/DvrGjRPzhm MASK Bloc Org - https://maskbloc.org/COVID Meetups - COVIDMeetups.com

Online communities/support groups/events:
COVID Isn't Over - https://linktr.ee/covidisntover
Long COVID Justice - https://longcovidjustice.org/Support
Disability Visibility Project - DisabilityVisibilityProject.com

### Updating COVID Trackers



Source: Santa Clara County Public Health Dept, inspired by Lee Altenberg, PhD.

Wastewater trackers test sewage at processing plants for viral debris (including HSN1, influenza, etc). They're far more accurate than government or corporate numbers. "Official" trackers for COVID-19 cases, hospitalizations, and deaths are almost always SIGNIFICANTLY UNDERCOUNTED.

Wastewater trackers still SKEW LOW, and run at a 2 week delay. Also, since they depend on gov access, they can get forced into removing their public datas (RIP Biobot Tracker:C).

#### TURTLE ISLAND

WastewaterScan Dashboard data.wastewaterscan.org/

"Weather Reports"
on the PeoplesCDC.org/

Canadian Tracker COVID19Tracker.ca

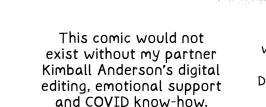
Iowa COVID Tracker iowacovid19tracker.org (Covers the whole USA)

Pandemic Mitigation Collaborative - PMC19.com/ Weekly COVID-19 forecasts, plus research on respirators & air quality

#### **GLOBAL**

KFF Global Tracker https://t.co/7fmeb93fYI

Worldometer worldometers.info/coronavirus/



Thank you!

I'm grateful to everyone who gave me feedback, with an extra big thank you to Dupe & Caitlin for copy edits.

Thank you to everyone making SARS-CoV-2 resources accessible online, & to everyone fighting to keep each other alive out there.

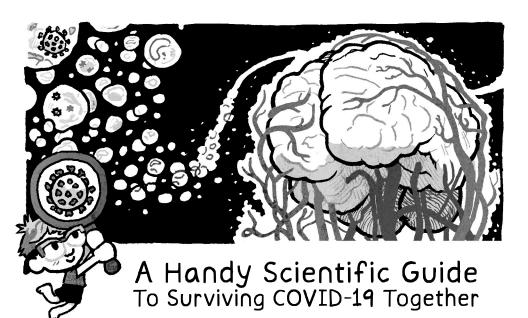
# Laurel Lynn Leake

...is a white, queer, and disabled artist who believes in the subversive power of empathy. They graduated from the Center for Cartoon Studies in 2013 with their MFA, and live in "Providence, RI." She's taking care of herself even though it's hard!

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laurel-lynn-leake.itch.io

#### THANK YOU FOR READING

If you stopped masking, let this be the excuse to start again! And if you never stopped - thank you, thank you, thank you.



Why's everyone sick all the time?
Well, it's not "just a cold", and it's definitely not "mild"...
It's SARS-CoV-2, and it can change your life forever.

Whether you've been too burned out to keep up with COVID-19 news, or if you're still masking and sick of explaining why, this zine is for you!

WHY WE MASK cuts through 5 years of COVID chaos with simple, non-judgemental language and fun science illustrations featuring masked-up queer & trans disabled people. Plus resources for protecting you and your loved ones!

