REBECCA SNOW NUTRITION

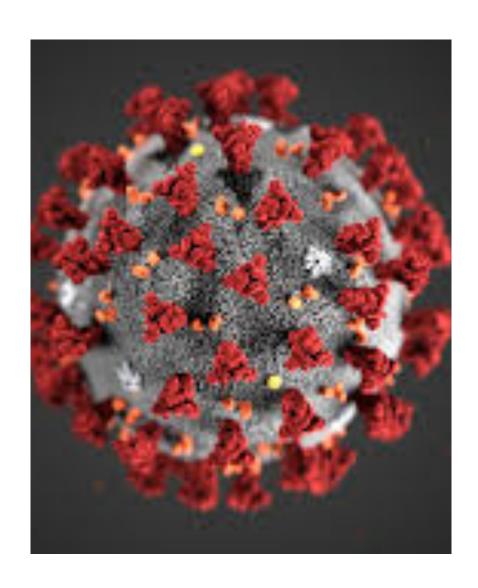
MARCH 25, 2020

6:30-7:45 PM

IMMUNE SUPPORT AND PEACE THROUGH THE STORM

PURPOSE OF THIS WEBINAR

- Provide an overview of COVID19
- Build awareness about all the healthy tools and resources you have available to you
- Create a pandemic food shopping list
- Build your medicine cabinet
- Reduce anxiety and stress relative to pandemic
- Provide action steps to improve resilience, manage stress and create inner peace



DISCLAIMER:

THERE IS NO
KNOWN CURE FOR
COVID-19. NO
EVIDENCE THAT
HERBS OR
SUPPLEMENTS TREAT
OR PREVENT
COVID19

COVID-19

RNA virus, SARS –CoV-2 causes COVID-19 aka Coronavirus

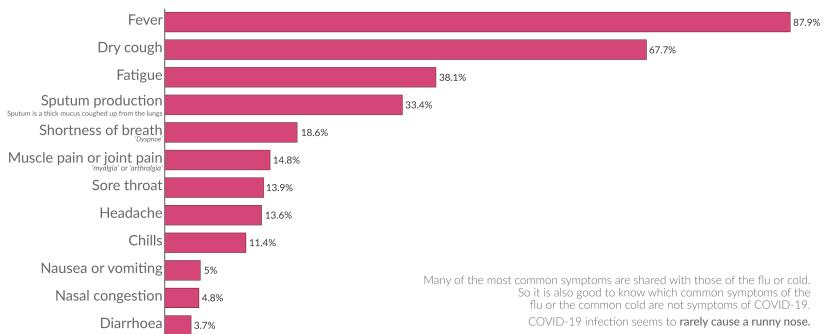
The symptoms of coronavirus disease [COVID-19]

The most common signs and symptoms of 55,924 laboratory confirmed cased of COVID-19. Reported from China in the period up to February 22, 2020

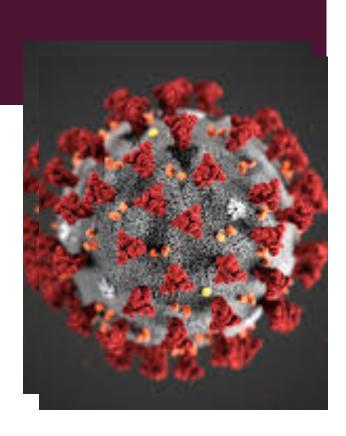
OurWorldinData.org - Research and data to make progress against the world's largest problems.

Our World in Data

Licensed under CC-BY by the authors.



Data source: World Health Organization (2020). Report of the WHO-China Joint Mission on Coronavirus Disease 2019 (COVID-19). Symptoms in fewer than 1% are not shown.

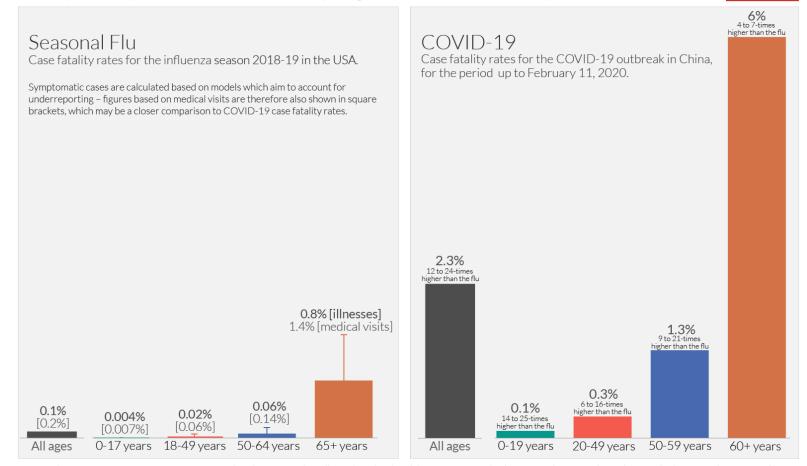


https://ourworldindata.org/co ronavirus Our world in data retrieved from WHO 2020, Report of the WHO-China Joint Mission on Coronavirus Disease 2019 (COVID-19)

Case fatality rates: COVID-19 vs. US Seasonal Flu



Case fatality rate (CFR) is specific to a location and time. It is calculated by dividing the total number of deaths from a disease by the number of confirmed cases.



Data: Novel Coronavirus Pneumonia Emergency Response Epidemiology Team. Vital surveillances: the epidemiological characteristics of an outbreak of 2019 novel coronavirus diseases (COVID-19)—China, 2020. China CDC Weekly. US Influenza data is sourced from the US Centers for Disease Control and Prevention (CDC).

OurWorldinData.org - Research and data to make progress against the world's largest problems.

Licensed under CC-BY by the authors Hannah Ritchie and Max Roser.

COVID-19 VS INFLUENZA

https://ourworldindata.org/coron avirus

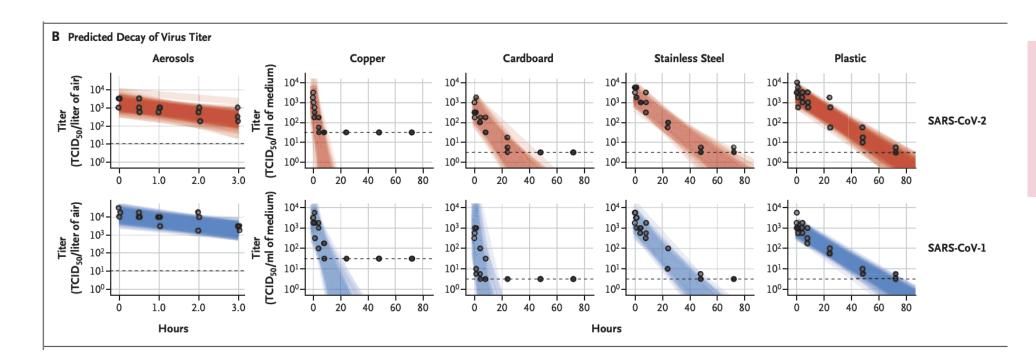
Our world in data, retrieved from The Epidemiological Characteristics of an Outbreak of 2019 Novel Coronavirus Diseases (COVID-19) — China, 2020 by

The Novel Coronavirus Pneumo nia Emergency Response Epidemi ology Team

There are five key steps to tackle the coronavirus: Hands, Elbow, Face, Distance and Feel **HANDS ELBOW 3** FACE **DISTANCE** FEEL

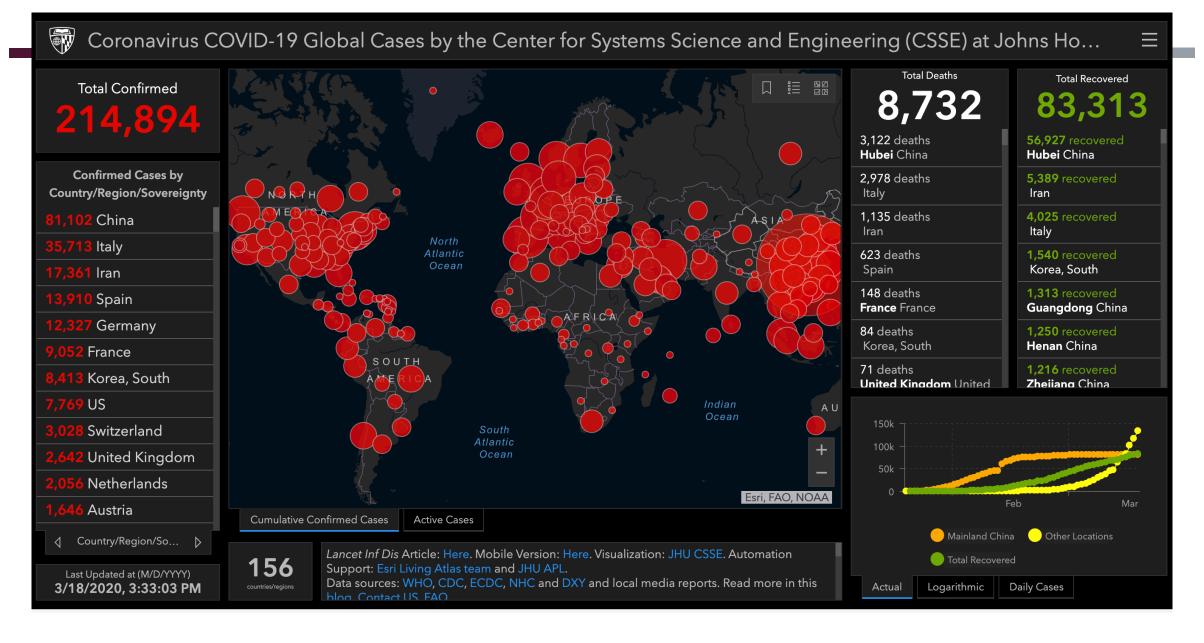
TOP PREVENTION STRATEGIES

COVID 19 SURVIVAL ON SURFACES



Air 3hr
Copper 4hr
Cardboard 24hr
Stainless steel 3d
Plastic 3d

N van Doremalen, et al. Aerosol and surface stability of HCoV-19 (SARS-CoV-2) compared to SARS-CoV-1. The New England Journal of Medicine. DOI: 10.1056/NEJMc2004973 (2020)



https://gisanddata.maps.arcgis.com/apps/opsdashboard/index.html#/bda7594740fd402994 23467b48e9ecf6

WHO OFFICIAL SITE



Health Topics ~

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Newsroom >

Emergencies ~

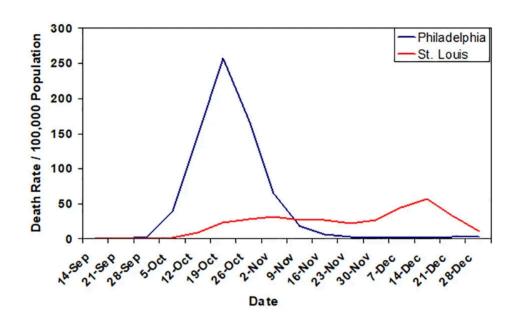
About Us v

Home / Emergencies / Diseases / Coronavirus disease 2019 / Events as they happen



https://www.who.int/emergencies/diseases/novel-coronavirus-2019/events-as-they-happen

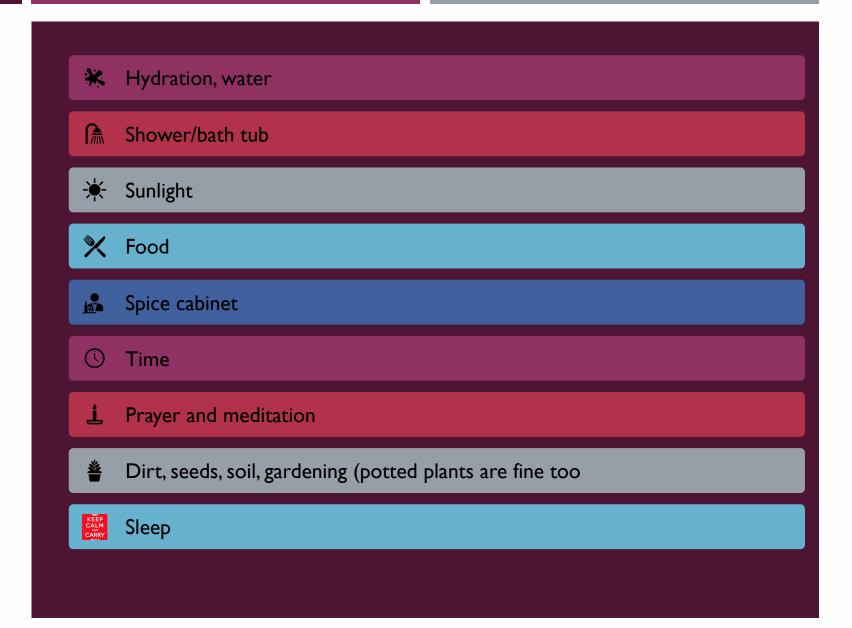
LEARN FROM HISTORY – 1918 FLU PANDEMIC



- The Institute for Disease Modeling <u>calculated that</u> the new coronavirus is roughly equally transmissible as the 1918 flu, and just slightly less clinically severe, and it is higher in both transmissibility and severity compared with all other flu viruses in the past century.
- https://www.nytimes.com/2020/03/13/us/coronavirusdeaths-estimate.html



WE HAVE MANY OTHER TOOLS AT OUR DISPOSAL



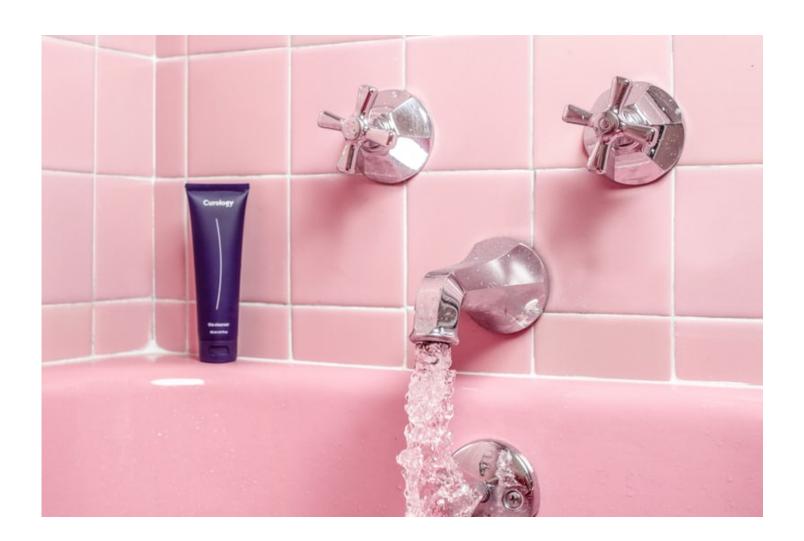




HYDRATION

HEAT/WATER

- Viruses do not like heat.
- Hot baths/showers
- Steams/soaks







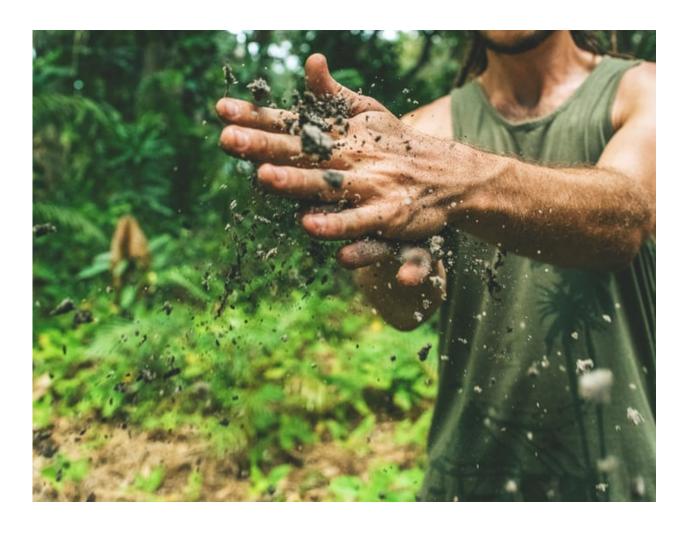


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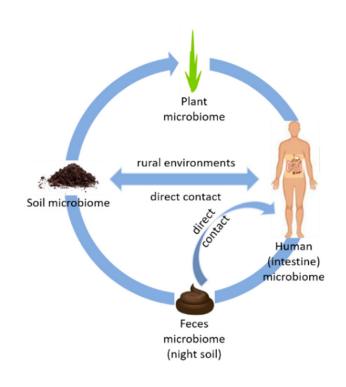
SUNLIGHT / OPEN AIR

■Hobday, R.A., & Cason, J.W. (2009). The Open-Air Treatment of PANDEMIC INFLUENZA. *Am J Public Health*, 99(Supp2), S236—S242. Retrieved from https://www.ncbi.nlm.nih.gov/pmc/articles/PMC45043 58/

DIRT



Pre-industrial



Blum, W. E., Zechmeister-Boltenstern, S., & Keiblinger, K. M. (2019). Does Soil Contribute to the Human Gut Microbiome? *Microorganisms*, 7(9), 287. doi: 10.3390/microorganisms7090287

PHYSICAL ACTIVITY

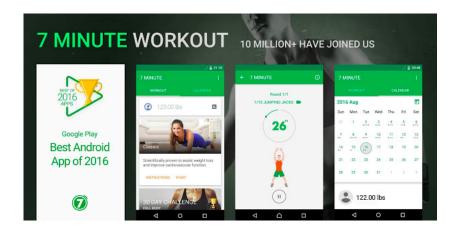
- Walk outside
- Night time walking with a family member
- Gardening and yard work
- Support local fitness centers offering online classes
- Fitness blender
- 7-minute workout
- Dance around the house with family

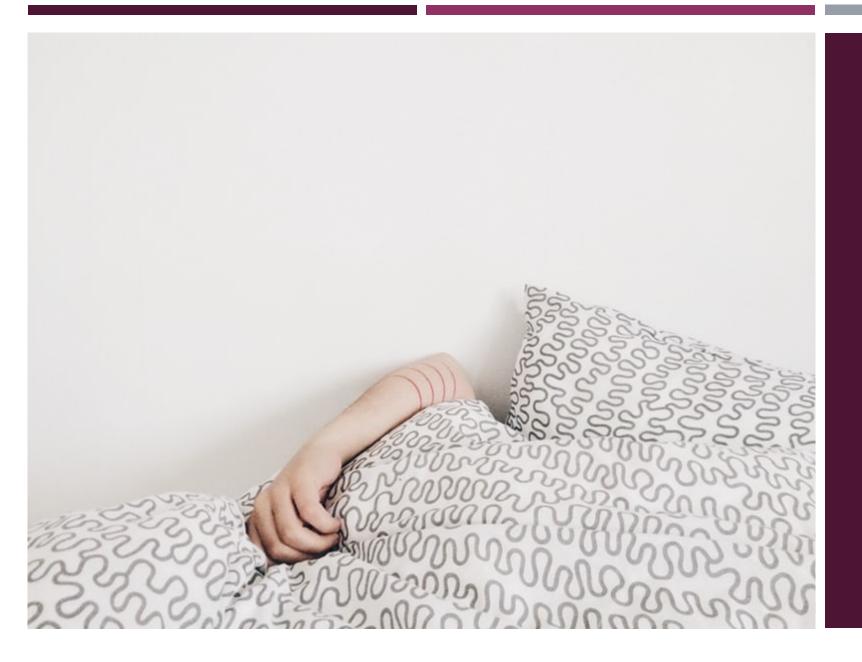












SLEEP

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"EAT FOOD MOSTLY PLANTS NOT TOO MUCH" MICHAEL POLLAN

WHY DOES FOOD MATTER?

DIETARY INSULTS TO IMMUNITY





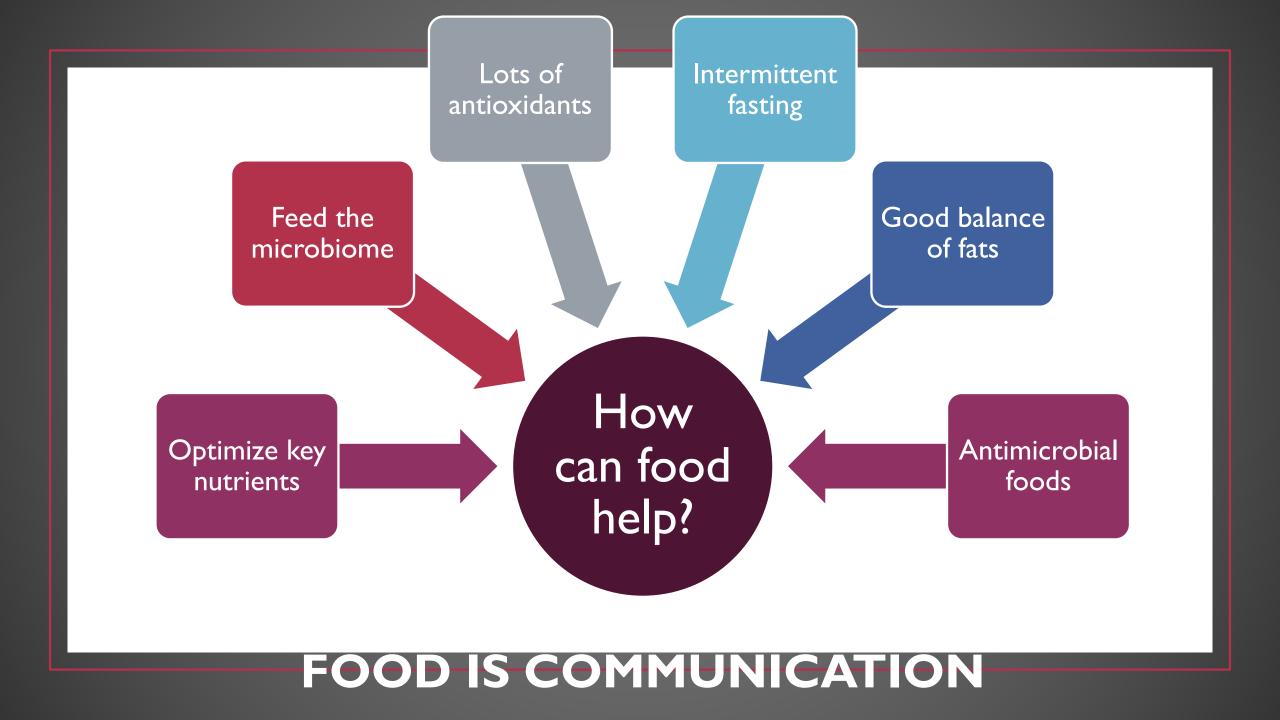




- Sugar
- Pesticides
- AGE's –
 Advance
 glycation end product
- Salt
- Processed food
- Soy/canola oil, trans fats
- Excessive calories
- Low nutrient diversity









HOW DO WE EAT HEALTHY IN A PANDEMIC!!?

www.unsplash.com

PANDEMIC SHOPPING LIST

PROTEINS

- Proteins
- Cheese and yogurt
- Boxed or frozen roth
- Eggs
- Tofu keeps a good bit of time in the fridge 6-8 weeks
- *Canned fish sardines, salmon, chunk light tuna, mackeral
- *Turkey or beef jerkey
- Frozen meat, ground or breasts of chicken
- Frozen fish
- *Canned beans and lentils black, kidney, white, pinto, red, French green lentil, garbanzo, red lentil etc.
- *Dry beans and lentils black, kidney, white, pinto, red, French

green lentil, garbanzo, red lentil etc.

- Protein powders
 - Collagen peptides, ie. Vital
 Choice or Great Lakes
 - Whey protein, i.e. Tera's whey
 - Rice protein powder, i.e. Nutribiotics
- Boxed nondairy milks higher in protein hemp, soy and oat milk
- Raw nuts and seeds pecan, walnut, almond, cashew, pumpkin, sunflower, chia, hemp, macademia
- Nut and seed butters peanut butter, almond butter, cashew butter, coconut manna



BROTHS





Fruit

- Fresh fruit that lasts the longest – pomegranate, apples, citrus, bananas
- Dried fruit apricot, mango, apple, plantain, prunes, currants, blueberries
- 100% Fruit Juice –
 pomegranate, blueberry,
 grape get red/blue
 varieties for more
 antioxidants
- Frozen fruit Berries, cherries, peaches, mango, pineapple

- Canned fruit get varieties without sugar added
- Fruit jam again get high antioxidant varieties

Starch

- Dried grains: Quinoa, brown rice, white rice, oats, buckwheat/kasha
- Quick oats only need water added

PANDEMIC SHOPPING LIST

FRUIT & GRAINS

PANDEMIC SHOPPING LIST

VEGETABLES

- Vegetable powders
 - Dr. Cowan's
 - Healthforce
- Fresh Vegetables
 - Fridge: Cabbage, broccoli, Brussel sprouts, beets, carrots, turnips, rutabaga, celeriac, celery
 - Root cellar: Sweet potato, potato, onions, garlic, winter squash -butternut, pumpkin, acorn, spaghetti etc.
- Join a CSA i.e. Full Circle Farms
- Wild weeds- chickweed, purslane, nettles, garlic mustard
- Frozen Veggies Cauilflower

- rice, kale/collards, peas, spinach, lima beans, broccoli, mixed veg
- Dried vegetables kale chips, beet chips, seaweed strips
 - Mini guacamoles, salsa
 - Fermented vegetables Bubbies pickles, sauerkraut, homemade ferments
- Make your own homemade fermented vegetables http://www.nourishingmeals.com/2012/02/how-to-make-lacto-fermented-vegetables.html



HARVEST SOME WILD GREENS

Wild Edibles App (to identify wild greens):

https://itunes.apple.com/us/app/wild-edibles-full/id43 I 504588?mt=8

- Edible wild food recipes
 http://www.ediblewildfood.com
 /wild-food-recipes.aspx
- Foraging guidelines
 http://www.wildedible.com/foraging





Culinary Herbs and Spices

Coriander

Add antioxidants to food. Keep Lavendar well. Aim to use some herbs and spices every day. My favorites for Cayenne immune health...

Cumin

Oregano

Blends

Thyme

Herbs de provence

Turmeric Sage

Italian seasoning

Rosemary

Garam masala

Curry

Ginger

Garlic

Onion

Marjoram

Cinnamon

PANDEMIC SHOPPING LIST

HERBS & SPICES

PANDEMIC SHOPPING LIST

OTHER

Healthy fats

- Olive oil
- Coconut oil
- Avocado oil
- Coconut flakes
- Butter
- Nut butters
- Cocoa powder

Condiments

- Apple cider vinegar
- Tamari
- Honey
- Avo oil Mayo

Electrolytes

- EmergenC packets
- Hi Lyte
- 40,000 volts
- Keto K1000



Table 1. Provisional daily dosage suggestions for nutraceuticals that might aid control of RNA viruses including influenza and coronavirus



Ferulic acid	500-1,000 mg
--------------	--------------

Lipoic acid 1,200-1,800 mg (in place of ferulic acid)

Spirulina 15 g (or 100 mg PCB)

N-Acetylcysteine 1,200–1,800 mg

Selenium 50-100 mcg

Glucosamine 3,000 mg or more

Zinc 30-50 mg

Yeast Beta-Glucan 250-500 mg

Elderberry 600–1,500 mg





Progress in Cardiovascular Diseases

Available online 12 February 2020

In Press, Corrected Proof ?



Nutraceuticals have potential for boosting the type 1 interferon response to RNA viruses including influenza and coronavirus

ANTIVIRALS

- Baikal skullcap 1-2 g
- Quercitin from leafy vegetables, broccoli, red onions, peppers, apples, grapes, black tea, green tea, red wine, and some fruit juices 500 mg - 2,000 mg

10.4103/2225-4110.124335

- Houttuynia cordata 1-4 g
- Holy basil, Ocimum sanctum 2-4 g
- Bupleurum spp 500-1,000 mg
- Terminalia from Triphala 1-4 g
- Sweet annie, Artemisia annua I g
- Elderberry, Sambucus 15 ml syrup
- Licorice root, Glycyrrhiza glabra I g
- Dandelion, Taraxacum officinale 1-4 g

Lin, L.-T., Hsu, W.-C., & Lin, C.-C. (2014). Antiviral Natural Products and Herbal Medicines. Journal of Traditional and Complementary Medicine, 4(1), 24–35. doi:

- Berberine from Barberry/Oregon Grape Root 500 -1,000 mg
- Curcumin from Turmeric, Curcuma longa 500-1,000 mg
- Resveratrol from Japanese knotweed, peanuts, pistachios, grapes, wine, blueberries, cranberries, and dark chocolate 100-200 mg
- Ursolic acid from apples, bilberries, cranberries, elderflower, peppermint, lavender, oregano, thyme, hawthorn, and prunes
- Marine algae red marine algae, blue green algae
- Osha, Ligusticum porter I-4 ml
- Beta glucans from yeast, I-3 tsp yeast daily

Vitamin C (C powder, C capsules, Liposomal C) 2,000 mg daily

Zinc 20 mg a day

Vitamin D3 2,000 iu

Fish oil/cod liver oil I tsp a day

Dried medicinal mushrooms for prevention in cooking

Raw garlic I clove a day, up to 6 if infection

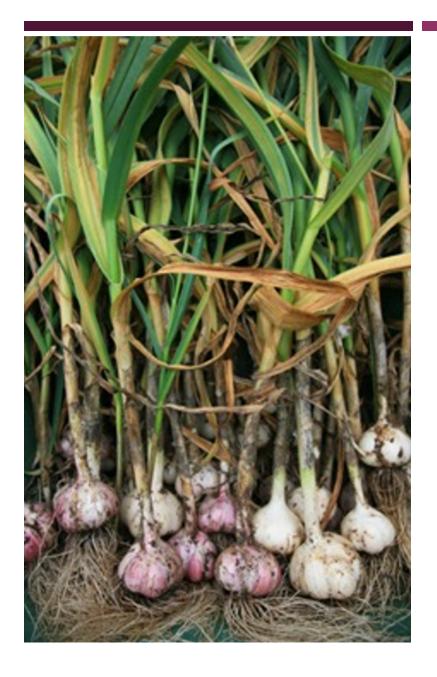
Antivirals – choose two from the list

Fever management – chamomile, yarrow, boneset, elder flower,

Anti-inflammatories on board –Baikal skullcap, licorice root, zyflamend, turmeric, Japanese knotweed, grindelia

Electrolytes

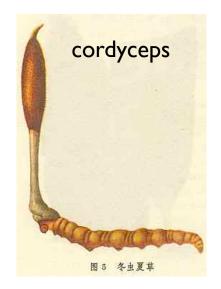
MY TOP 10 LIST



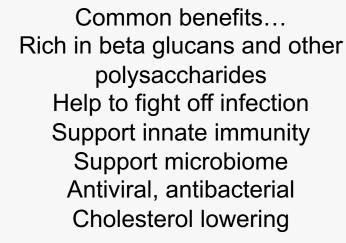
ALLIUM SATIVUM, GARLIC

- Broad spectrum antibacterial, antiviral, expectorant, warming mucolytic
- For moist cough with active inflammation
- One of the principal ingredients in the Four Thieves Remedy during the plague in 1722
- Used by monks in outbreaks of infectious disease
- Used in both world wars for gangrene and infection
- One double blind randomised study in 146 people, reduced incidence and severity of the common cold

■ Garlic intensive: To begin ingest a <u>chopped raw clove of garlic</u> in the easiest manner possible for you; this may be with toast or a little peanut butter. Repeat every I/2 hour following that for the next 3 to 4 hours, until you have taken in <u>6 to 8 cloves</u>. Wrap yourself up in several blankets and go to bed. If possible spend the next day in bed.



"(Cordyceps) A broad spectrum of pharmacologic actions including the modulation of hepatic, renal, cardiovascular, immune, nervous, endocrine, and steroid systems has also been described." (Liu, W. C., W. L. Chuang, et al., 2008)





Shitake mushroom



Reishi, Ganoderma

Maitake, hen of the woods









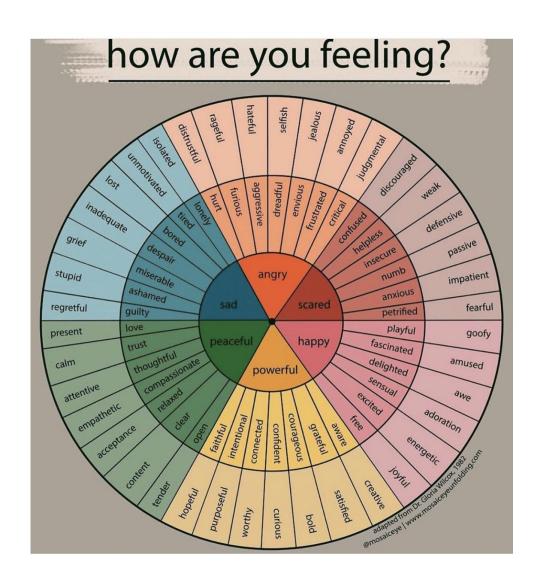






Thai Chicken & Mushroom Soup

2 servings 40 minutes



THE GREAT PAUSE OF 2020

STRESS, MINDFULNESS AND YOUR IMMUNE SYSTEM

- Acute and chronic stress induces immune activation through a number of physiological pathways
- •Chronic immune activation can alter health outcomes that resemble those seen in chronic inflammatory diseases such as autoimmune conditions
- Altered immune function can lead to exacerbated symptoms of both physical and psychological illnesses
- RCT on mindfulness meditation and the immune system showed changes in selective biomarkers of immune system activity
- Namly, reductions in NF-kB, reductions in circulating levels of CRP, increases in CD4T cell count, and increases in telomerase activity

Causes

Damage
to your body's tissue
& organs on a cellular level.
Triggers further stress response

Causes

Damage
To your body's tissue
Triggers further stress response

Damage
To your body's tissue
Triggers further stress response

Leads to low grade chronic
Inflammation
Body struggles to fight infection,
repair and recover

TIPS FROM DR EILEEN FELICIANO, CHILD PSYCHOLOGIST

- I. Create a new a routine
- 2. If you are feeling low and have exhausted many other uplifting options ... get dressed up!
- 3. Get outside, move your body, change your scenery
- 4. Stay hydrated, eat well, get enough sleep and rest
- 5. Reach out to others (skype, text, facetime, phone calls), especially if you need help
- 6. Lower your expectations and find something you CAN control like organizing your closet or spring cleaning
- 7. Limit media and how much information you are taking in (enough to stay informed)
- 8. Spend extra time playing with your children, pets, house plants
- 9. Be gentle with yourself, others, children and be of service to others
- 10. Remind yourself daily this is temporary ... this is a season of life and it will pass



@latibulecounseling. "Ideas to help your Nervous System regulate" March 18, 2020



WHAT IS THE EXHALE TO ALL OF THIS?

RESILIENCE

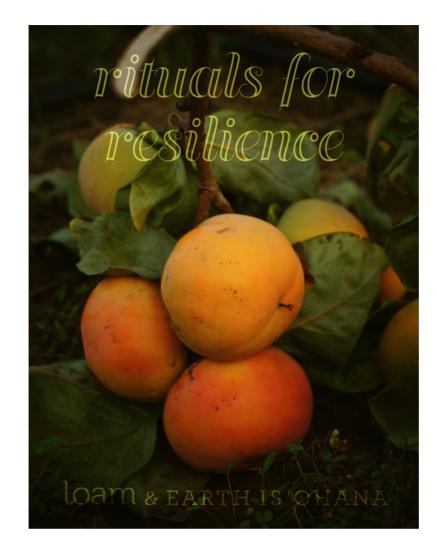
- Perspective
- Levity
- Connection
- Gratitude

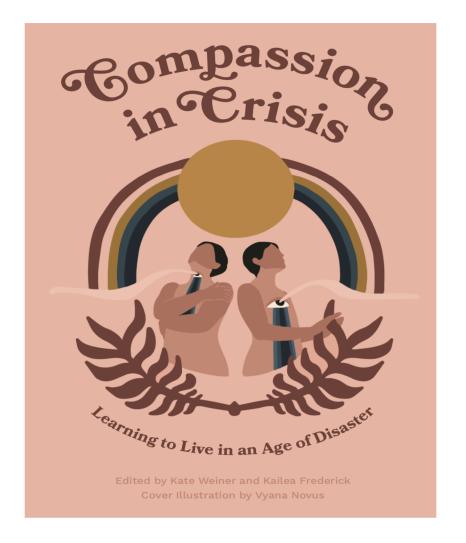
RESILIENCE

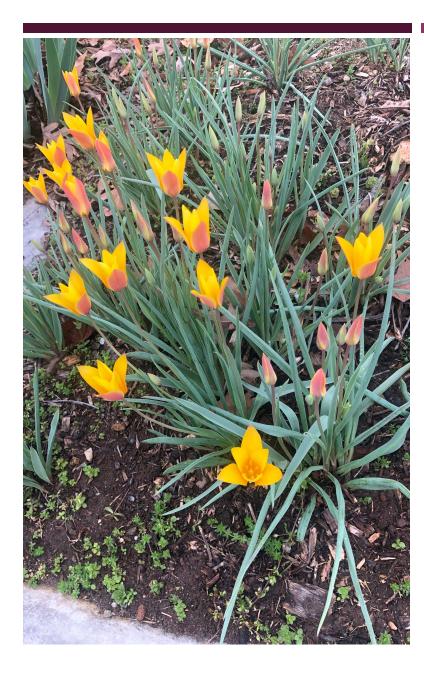
The Stockholm Resilience
Center defines resilience as "the capacity of a system, be it an individual, a forest, a city, or an economy, to deal with change and continue to develop."



E-BOOKS







RESILENCE

- Comfortable with Uncertainty Pema Chodron
- When Things Fall Apart Pema Chodron
- Untamed Glennon Doyle
- Braving the Wilderness Brene Brown
- All Along You Were Blooming Morgan Harper Nichols
- Untethered Soul Michael Singer
- Radical Acceptance Tara Brach
- Inward Yung Pueblo
- And Still I Rise Maya Angelou
- Maybe You Should Talk to Someone Lori Gottlieb
- Big Magic Liz Gilbert
- Tiny Beautiful Things Cheryl Strayed
- Heart Talk Cleo Wade
- The Places That Scare You Pema Chodron
- Everything is Figureoutable Marie Forleo

I Worried Mary Oliver

I worried a lot. Will the garden grow, will the rivers flow in the right direction, will the earth turn as it was taught, and if not, how shall I correct it?

Was I right, was I wrong, will I be forgiven, can I do better?

Will I ever be able to sing, even the sparrows can do it and I am, well, hopeless.

Is my eyesight fading or am I just imagining it, am I going to get rheumatism, lockjaw, dementia?

Finally I saw that worrying had come to nothing. And gave it up. And took my old body and went out into the morning, and sang.

Oliver, M. 2017. "I Worried". Devotions. Pp.59. New York, New York. Penguin Random House, LLC.

PERSPECTIVE

MY STAY-AT-HOME TO-DO LIST

-Appreciate that I have a place to stay inside

 Be patient with the people around me who may feel frustrated, antsy, or scared

-Focus on the things I can control

-Take care of myself physically, mentally, and emotionally

-Take deep breaths to stay grounded and calm

-Cut myself some slack if I struggle to do what's good for me

LORI DESCHENE

@tinybuddhaofficial

tinybuddha.com

LEVITY



0

@newyorkermag. "Self-help for self-quarantining". March 24, 2020

Africa Toto

Hand-washing technique with soap and water









But she hears only whispers of some quiet conversation







Her moonlit wings reflect the stars that guide me towards salvation



I stopped an old man along the way



Hoping to find some old forgotten words or



He turned to me as if to



"Hurry boy, it's waiting there for you"



It's gonna take a lot to



There's nothing that a hundred men or more could ever do



I bless the rains down in



do the things we never



The wild dogs cry out in the night

HOW ELSE ARE YOU FINDING LEVITY?

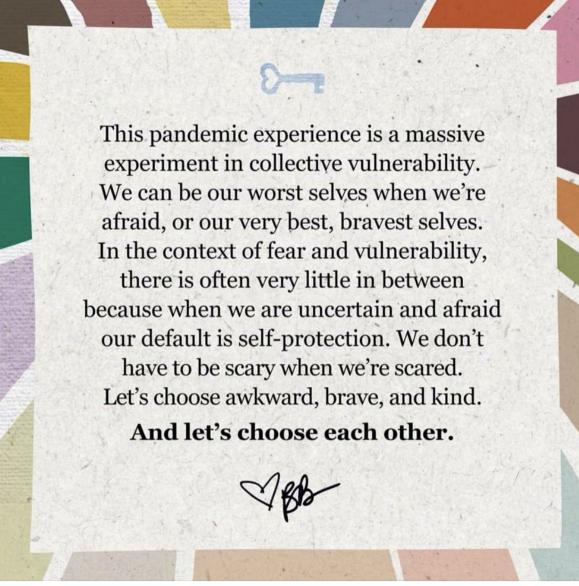


- ■Virtual birthday parties
- Group text threads
- ■Virtual dinner parties and workouts
- ■Laughter yoga

CONNECTION



@jamietworkowski "Hope will not be cancelled" March 15, 2020



GRATITUDE

And the people stayed home.

And read books, and listened, and rested, and exercised, and made art, and played games, and learned new ways of being, and were still. And listened more deeply. Some meditated, some prayed, some danced. Some met their shadows.

And the people began to think differently.

And the people healed.
And, in the absence of people living in ignorant, dangerous, mindless, and heartless ways, the earth began to heal.

And when the danger passed, and the people joined together again, they grieved their losses, and made new choices, and dreamed new images, and created new ways to live and heal the earth fully, as they had been healed.

@caradelevingne

MEDITATION

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SOME ONLINE RESOURCES

- Claudia Wingo free webinar https://smileherbschool.com/herbal-support-coronavirus-free-webinar/
- Dr. Klinghardt free webinar
 https://www.youtube.com/watch?v=NctiERzrny4&utm_source=Ki+Science+Customers&utm_campaign=9179290365-
 <a href="https://www.youtube.com/watch?v=NctiERzrny4&utm_source=Ki+Science+Customers&utm_campaign=9179290365-
 <a href="https://www.youtube.com/watch?v=NctiERzrny4&utm_source=Ki+Science+Custome
- 7Song http://7song.com/wp-content/uploads/2020/03/An-Herbalist%E2%80%99s-Notes-the-on-COVID-19-Virus.pdf
- Deanna Minich –grocery list https://www.deannaminich.com/wp-content/uploads/2020/03/Prevention-and-Quarantine-Basic-Essentials-March-2020-3.pdf
- Stephen Buhner https://www.stephenharrodbuhner.com/wp-content/uploads/2020/03/coronavirus.txt.pdf
- Fratkin TCM protocol https://drjakefratkin.com/pdf/AT_Virus.pdf