

A warm welcome to the the 8th IPCRG Webinar

Today's Agenda

1500hrs BST	Welcome and Introductions Janwillem Kocks, Webinar Chair
1505hrs	COVID-19 & the Importance of Public Information & Education in Primary Care Sundeeep Salvi, India & Javiera Corbalán, Chile
1535hrs	Discussion with your questions
1550hrs	COPD video / Comfort Break / Tai Chi with Siân
1600hrs	Oral Abstract Presentations
1700hrs	Close Janwillem Kocks

Oral Abstract Presentations

- 1. Ademgenoot – a serious game to motivate and empower asthma patients in adherence to their maintenance medication: a user-centered design study**
Charlotte Poot, The Netherlands
- 2. Virtual Home-Based Pulmonary Rehabilitation Programme for COPD Patients**
Cathy Gillen, Ireland
- 3. Prevalence of vitamin D deficiency and insufficiency in patients with chronic obstructive pulmonary disease** *Malek Chaabouni, Tunisia*
- 4. Chronic respiratory disease (CRD) surveys in low- and middle-income countries (LMICs): A systematic scoping review of methodologies and outcomes**
Nik Sherina Hanafi, Malaysia
- 5. Development and validation of reference equations for lung function in healthy Sri Lankan Tamils** *Mathanki Sooriyakanthan, Sri Lanka*
- 6. Assessing feasibility of methods to estimate cost of illness of COPD in western rural India** *Ankita Shrivastava, India*

Presentation 1

Sundeep Salvi, India

COVID-19 Challenges in Healthcare Delivery in India



Dr Sundeep Salvi

MD, DNB, PhD(UK), FCCP, Hon FRCP (Lon)

Director

**Pulmocare Research and
Education (PURE) Foundation**

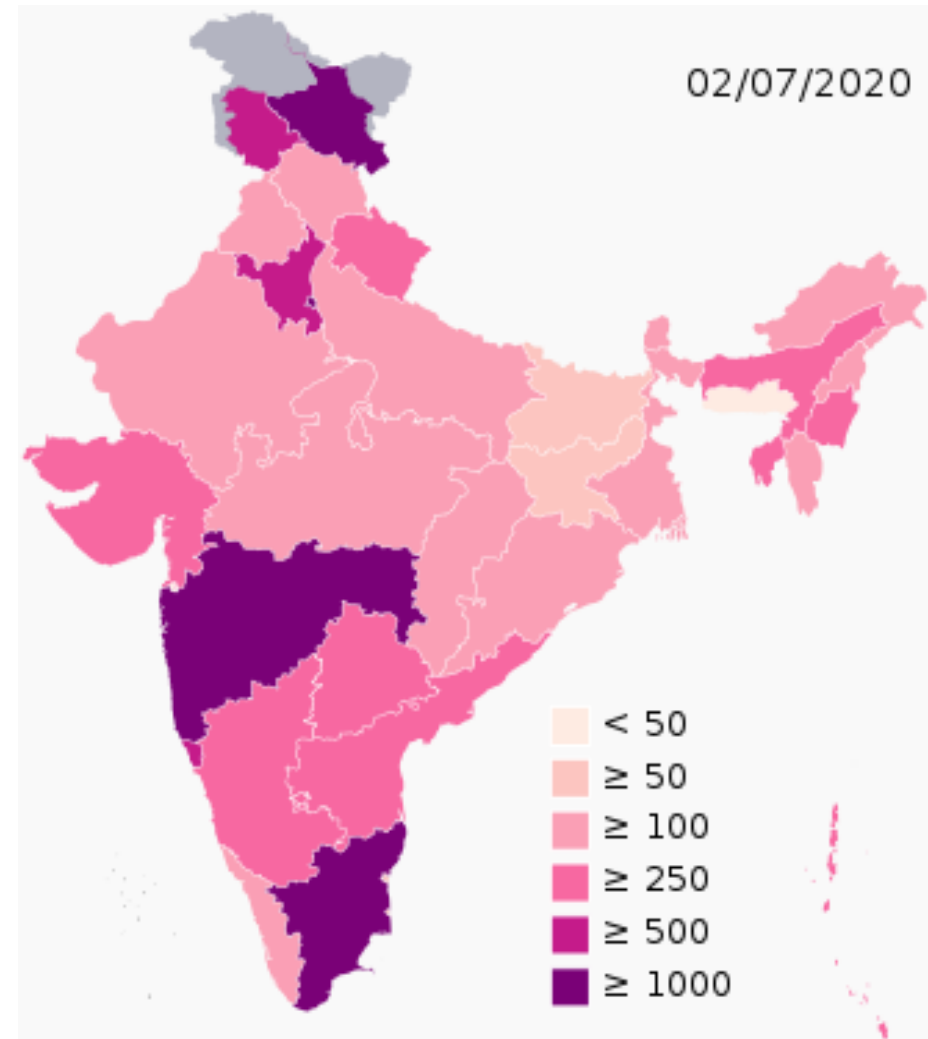
Pune, INDIA

sundeepsalvi@gmail.com

Mob: +91 9921211000

COVID-19 in India

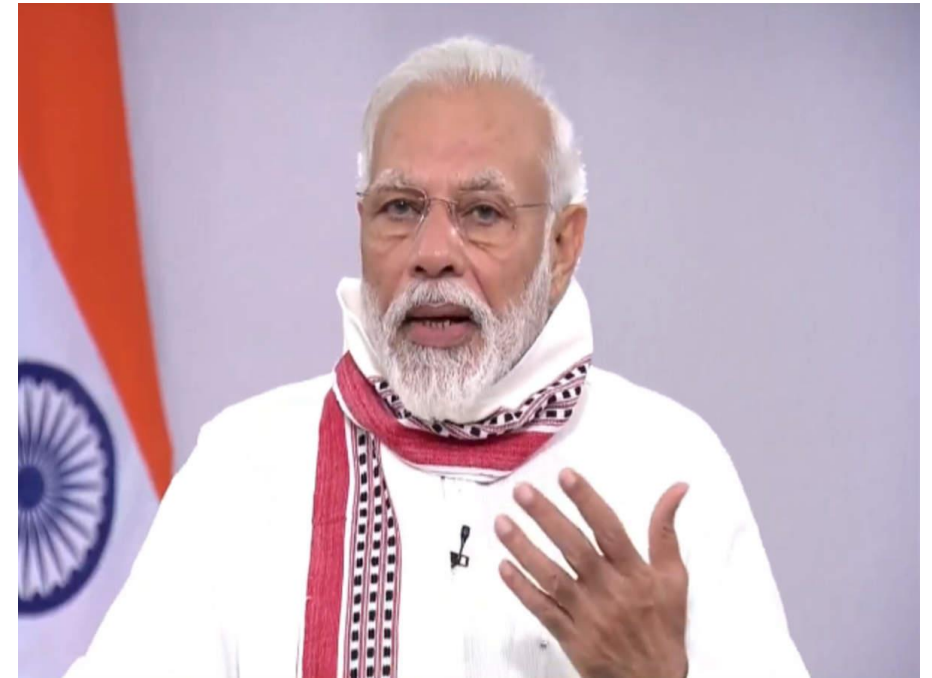
	Cases	Deaths	%Death
Global	11.04 M	524 K	4.7
USA	2.79 M	129 K	4.6
Brazil	1.53 M	61.8 K	4.0
Russia	0.66 M	44.2 K	6.6
India	0.62 M	18.2 K	2.9
UK	0.28 M	44 K	15.7
Spain	0.25 M	28 K	11.2



INDIA UNDERGOES COVID-19 LOCKDOWN



Hon Prime Minister Narendra Modi



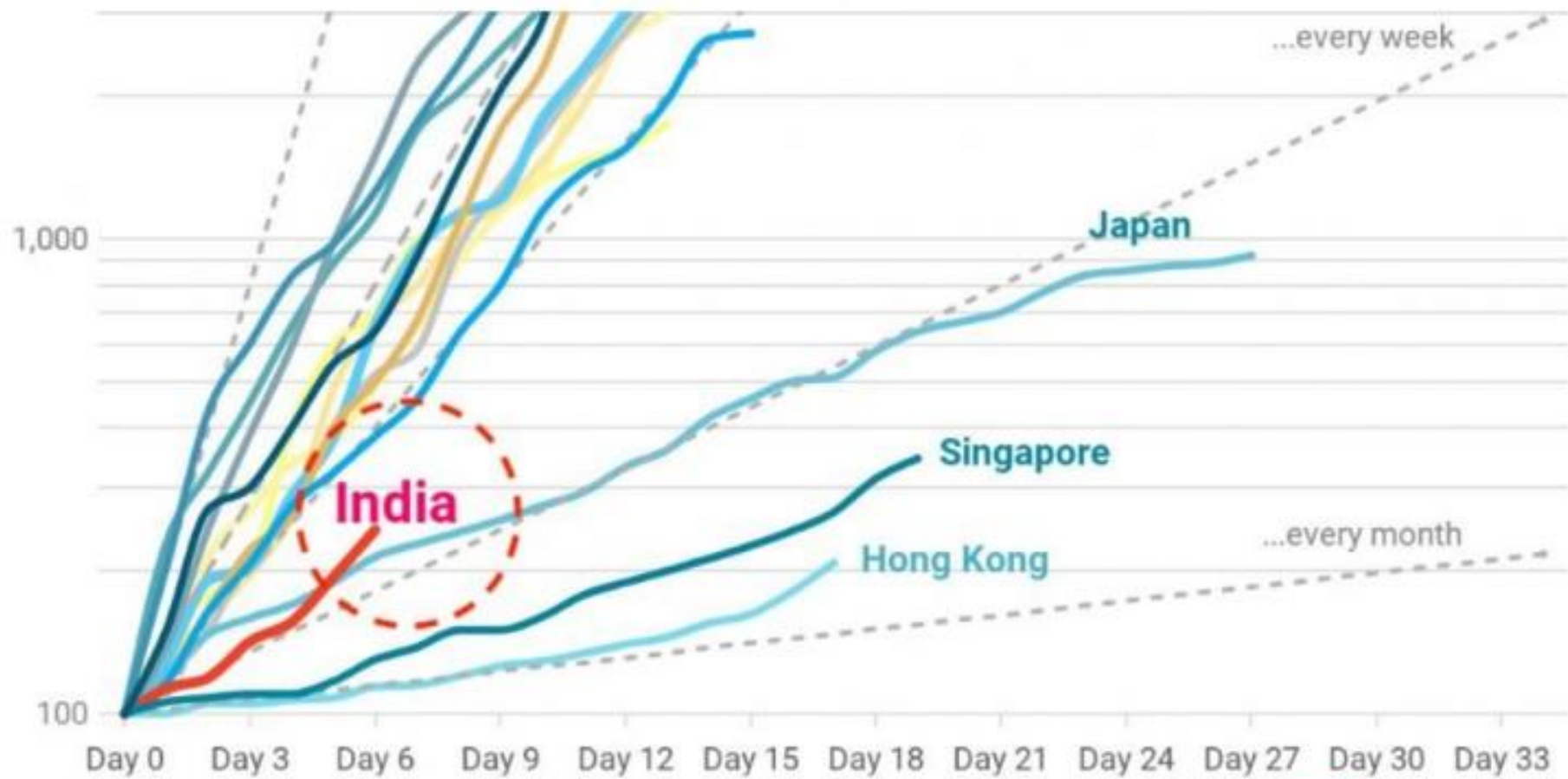
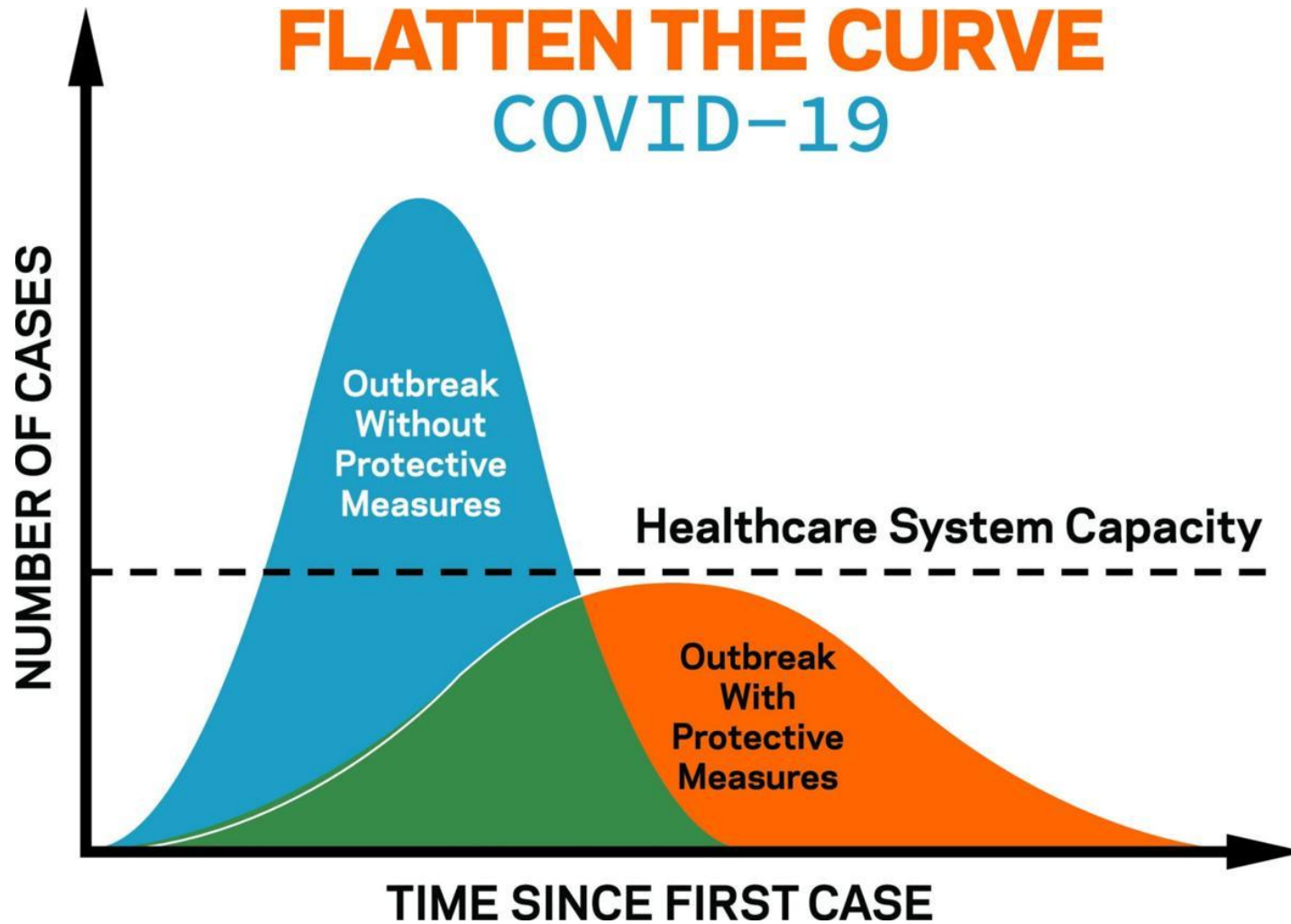


Chart: Dipu Rai with help of Lisa Charlotte Rost's Idea. • Source: Johns Hopkins CSSE



POLITICAL Versus HEALTH DECISIONS





INDIA IN QUARANTINE 89 ACTIVE CASES **INDIA TODAY**
TOP EXPERTS ON COVID-19
MARCH 14, 2020 7:14 AM

COVID-19 BREAKING NEWS **CORONAVIRUS OUTBREAK**
5 more test +ve in Maharashtra

www.indiatoday.in

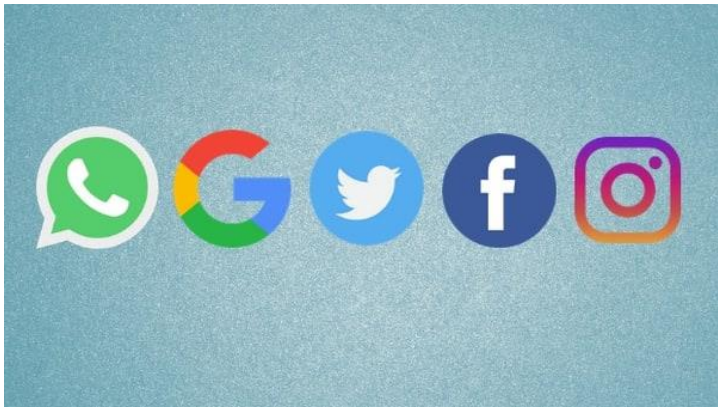


World Health Organization India

Take care of your body as you
#StayHome

Ensure you stay hydrated Eat a balanced diet Rest well

#StaySafe #StayHealthy #COVID-19 We are in it together!



CHALLENGES FOR PRIMARY CARE

Clinics shut down due to scare



Delhi shuts cancer institute after third doctor tests positive for Covid-19



GP Clinic for giving medical certificate to migrants wanting to go home



COVID-19: 'Panic' among India health workers over PPE shortages



Stigma: the other enemy India's overworked doctors face in the battle against Covid-19



Doctors not allowed to enter inside their residential society homes

India unites to thank health workers; clap hands, bang utensils from houses



21st March 2020
5 pm



Migrants sprayed with Disinfectant Chemicals when they reach their hometown

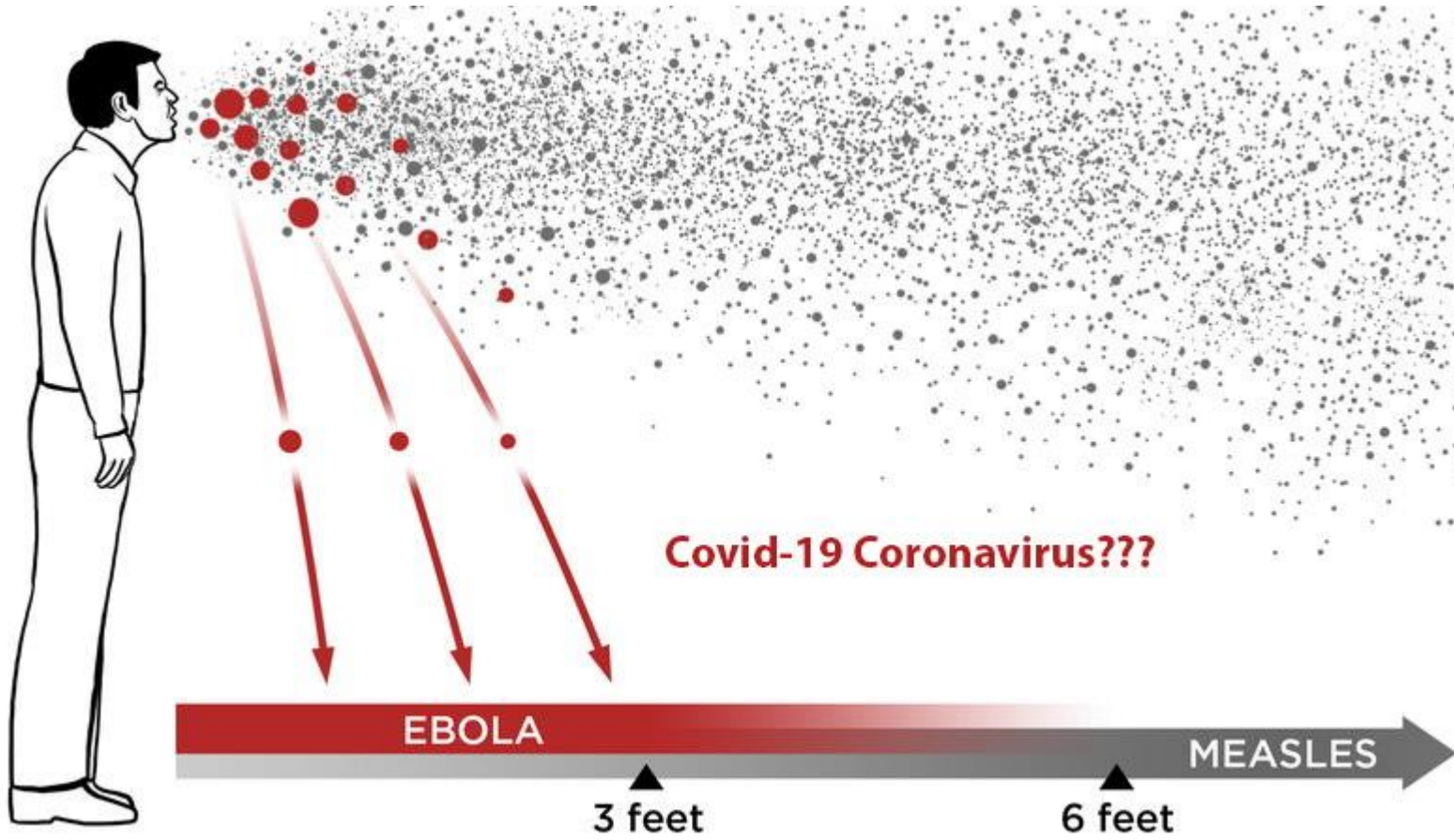


India opens one of the world's largest hospitals to fight coronavirus

July 3, 2020

10,000 beds





- Sneezing
- Coughing
- Shouting
- Singing Loudly
- Whispering
- Talking
- Breathing

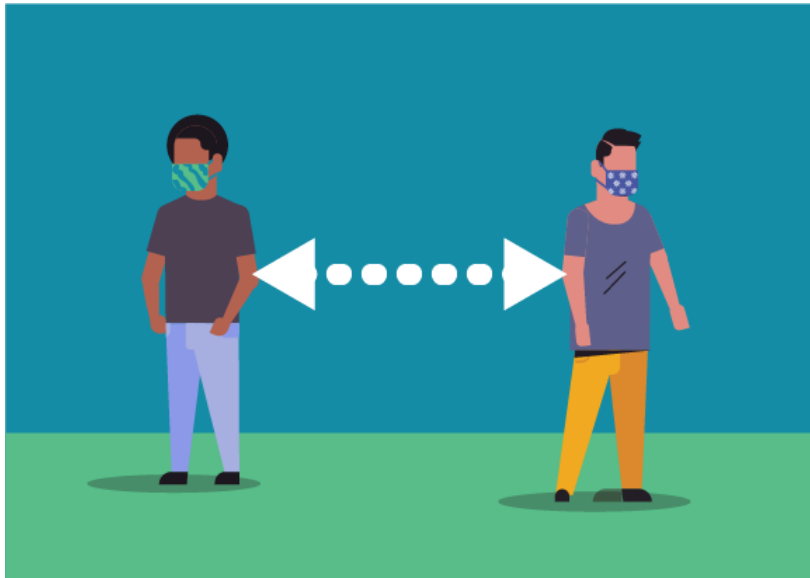


Physical distancing, face masks, and eye protection to prevent person-to-person transmission of SARS-CoV-2 and COVID-19: a systematic review and meta-analysis

Derek K Chu, Elie A Akl, Stephanie Duda, Karla Solo, Sally Yaacoub, Holger J Schünemann, on behalf of the COVID-19 Systematic Urgent Review Group Effort (SURGE) study authors*

Lancet 2020; 395: 1973–87 (172 Observational Studies, 44 Comparative studies)

Social Distancing



Reduced Transmission by **82%**
(62% - 91%)

Masks

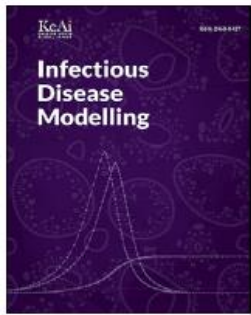


Reduced Transmission by **85%**
(66% - 93%)

Eye Protection



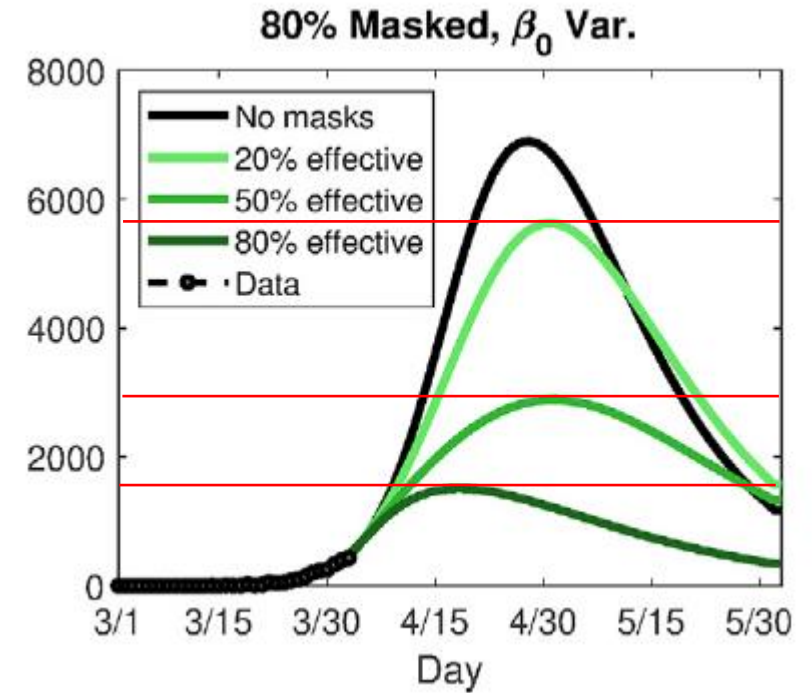
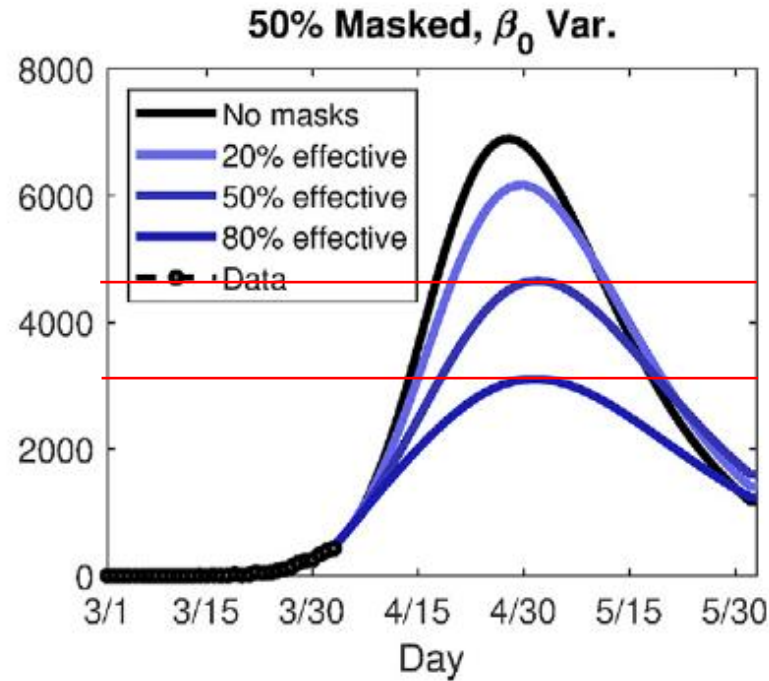
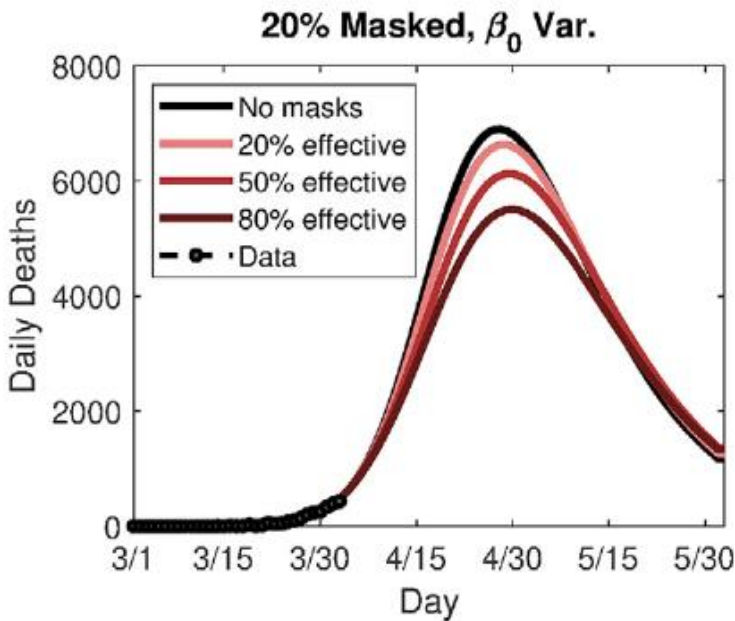
Reduced Transmission by **78%**
(61% - 88%)



To mask or not to mask: Modeling the potential for face mask use by the general public to curtail the COVID-19 pandemic

Eikenberry SE et al, Infectious Dis Modeling 2020; 5: 293-308 (Arizona State University)

Mathematical Modeling for New York and Washington



- Use of face mask reduces the risk of transmission and deaths significantly
- Wearing face mask should be implemented across the whole country immediately even if most masks are homemade and of relatively low quality

NIOSH Respirator Filter Classes

Based on Resistance to Oil

N95

N99

N100



Oil Aerosols

- Sealants
- Lubricants
- Coolants

N95

Filters off >95% of the particles that are more than 0.3 microns

NOT RESISTANT TO OIL

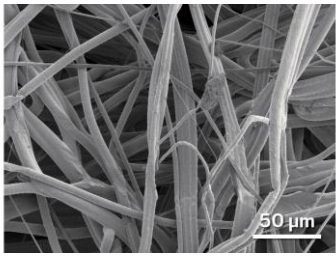
N95, N99, N100
Filters at least 95%, 99%, or 99.97% of airborne particles

SOMEWHAT RESISTANT TO OIL

R95, R99, R100
Filters at least 95%, 99%, or 99.97% of airborne particles

STRONGLY RESISTANT TO OIL/OIL PROOF

P95, P99, P100
Filters at least 95%, 99%, or 99.97% of airborne particles



N95 Respirator Masks



Molded, non-foldable
No Valve



Molded, non-foldable
Valve



Foldable
No-Valve

Should **NOT** be used for
COVID-19 protection

Single layer face mask



Dust mask



Aerosol Filtration Efficiency of Common Fabrics Used in Respiratory Cloth Masks

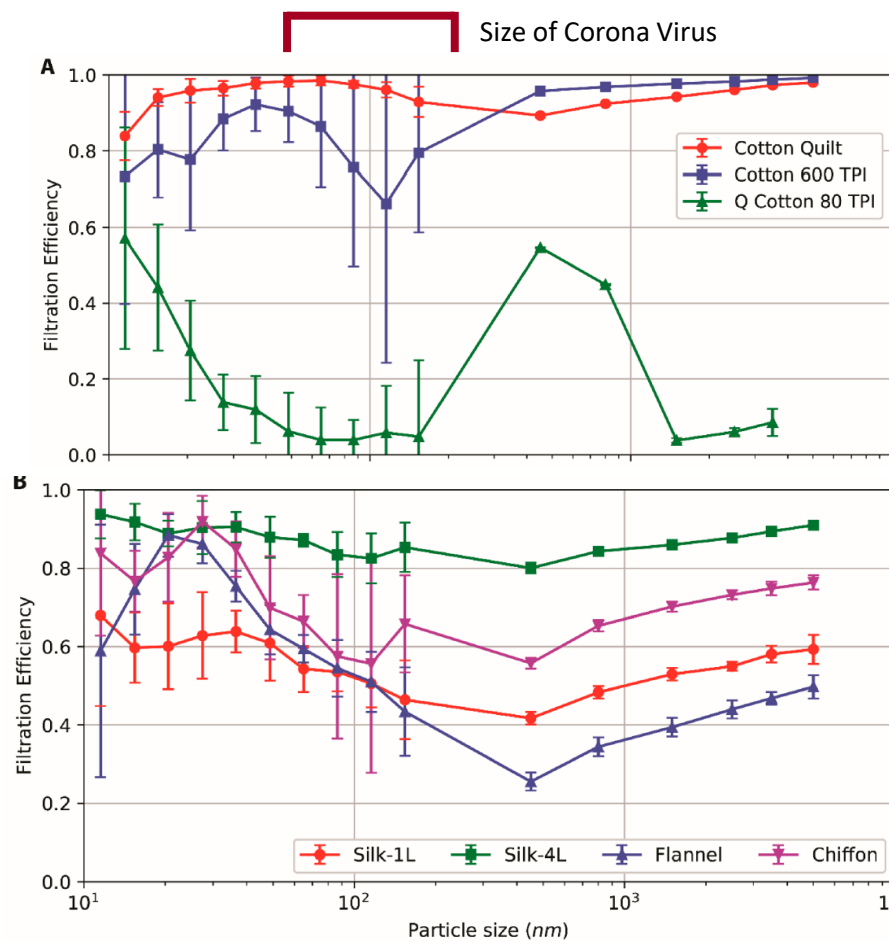
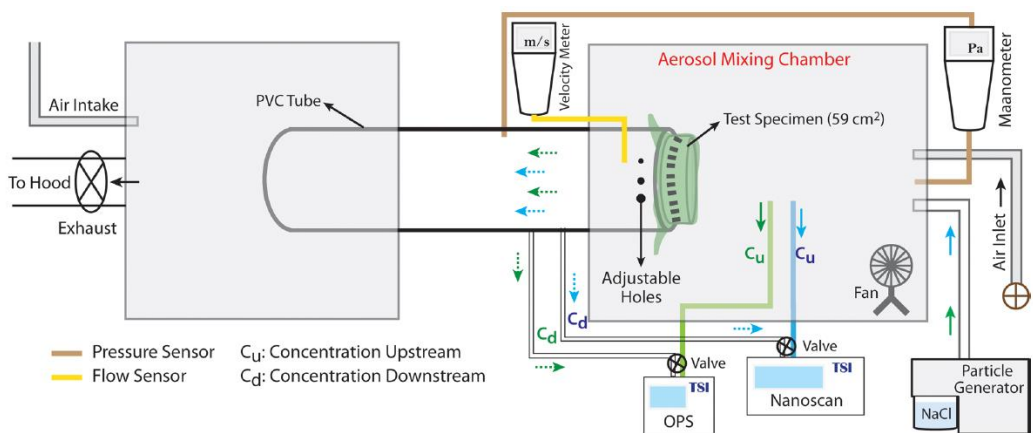
2020; Ahead of Print

Abhiteja Konda,[‡] Abhinav Prakash,[‡] Gregory A. Moss, Michael Schmoldt, Gregory D. Grant, and Supratik Guha*

School for Molecular Engineering, University of Chicago, USA

- Cotton
- Silk
- Chiffon
- Flannel
- Synthetics
- Combinations

Which material gives max filtration efficiency for <300nm and >300nm sized particles?

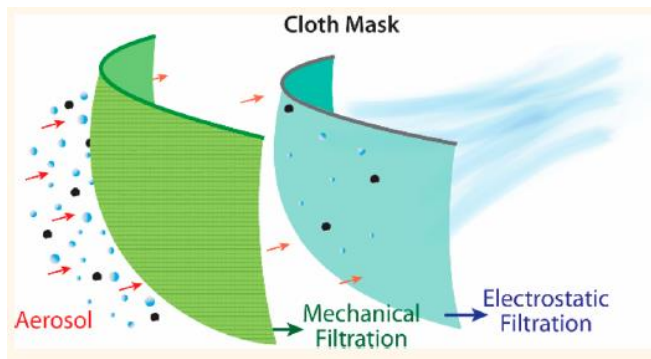


Cotton Quilt:
 • 90% cotton
 • 5% polyester
 • 5% other fabric

TPI = threads per inch

	<300nm	>300nm
N95 No gap	85 ± 15%	99.9%
N95 gap	34 ± 15%	12%
Surgical Mask No gap	76 ± 22%	99.6%
Surgical Mask gap	50 ± 70%	44%

- A well fitting mask is crucial for its efficacy
- 600 TPI cotton should be preferred over 80 TPI cotton
- Hybrid fabrics produced better filtration efficacy likely due to both mechanical as well as electrostatic properties
- Wool, cashmere – very poor filtration



TPI = threads per inch	<300nm
Cotton Quilt	96 ± 2%
Cotton 80TPI 1 layer	9 ± 13%
Cotton 80TPI 2 layers	38 ± 11%
Cotton 600TPI 1 layer	79 ± 23%
Cotton 600TPI 2 layers	82 ± 19%
Flannel	57 ± 8%
Chiffon 1 layer	67 ± 16%
Chiffon 2 layers	83 ± 9%
Natural silk 1 layer	54 ± 8%
Natural silk 2 layers	65 ± 10%
Cotton + Chiffon	97 ± 2%
Cotton + Flannel	95 ± 2%
Cotton + Silk No gap	94 ± 2%
Cotton + Silk Gap	37 ± 7%

THANK YOU



Dr Sundeep Salvi

MD, DNB, PhD(UK), FCCP, FICS, Hon FRCP (Lon)

Director

**Pulmocare Research and
Education (PURE) Foundation**

Pune

sundeepsalvi@gmail.com

Mob: +91 9921211000

Presentation 2

Javiera Corbalán, Chile

COVID-19 & the Importance of Public Education in Primary Care

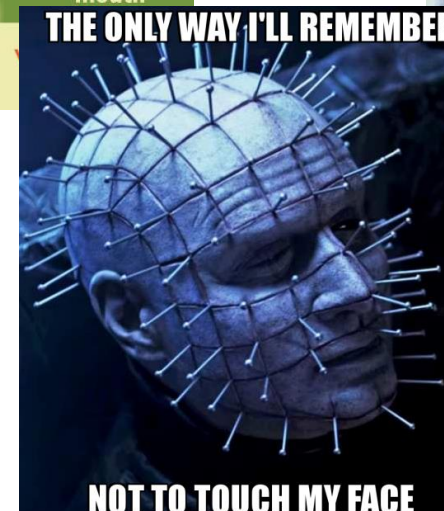
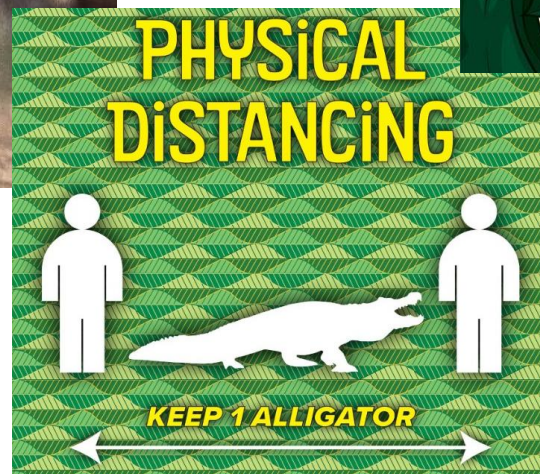
or how to effectively help real people act safely

Javiera Corbalán Pössel
Family Physician
Universidad Austral de Chile

HEALTH EDUCATION matters???

It's a critical step for people in the way of gaining greater control over the determinants of their health → EMPOWERMENT

Its the support for actions and conditions of living conducive to a greater quality of life.



**What influences
our behavior in a
risk situation?**



Receptor factors

- **HIGH STRESS**
 - Difficulty hearing, understanding and remembering information
 - Understanding at four grades below their educational level



Message factors

- **Information and knowledge** → positive attitude to preventive practices
- HIV/AIDS/STIs research showed that it is not enough to convince people to adopt a safe behavior that prevent infections from spreading.
- What is needed is the **motivation to act and skills**

Risk perception motivates to act, specially during a pandemic, where it correlates with adoption of preventive health behaviors like handwashing or social distancing.

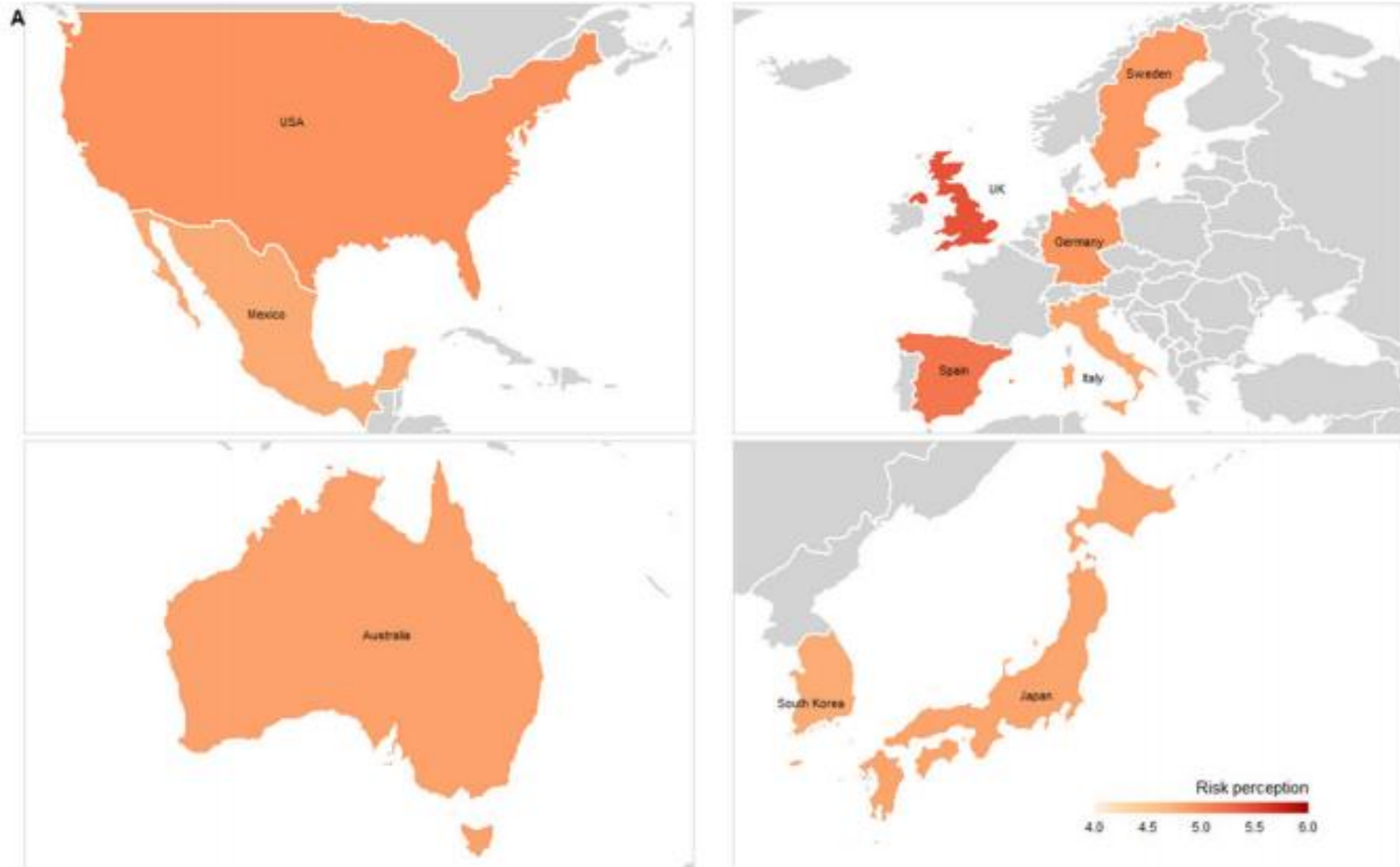
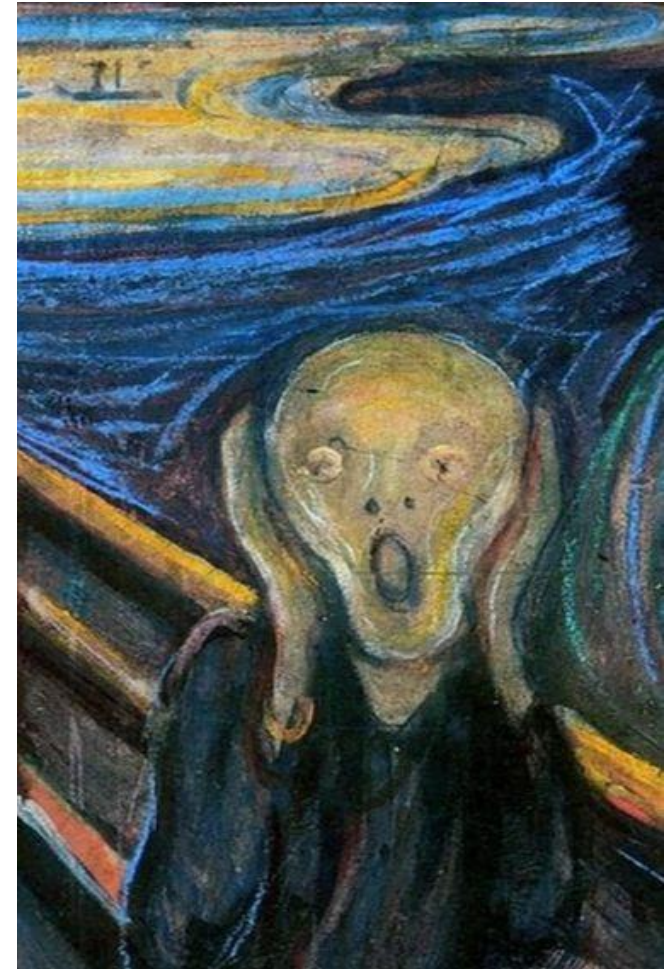


Figure 1. Map of COVID -19 risk perception around the world with density plots.

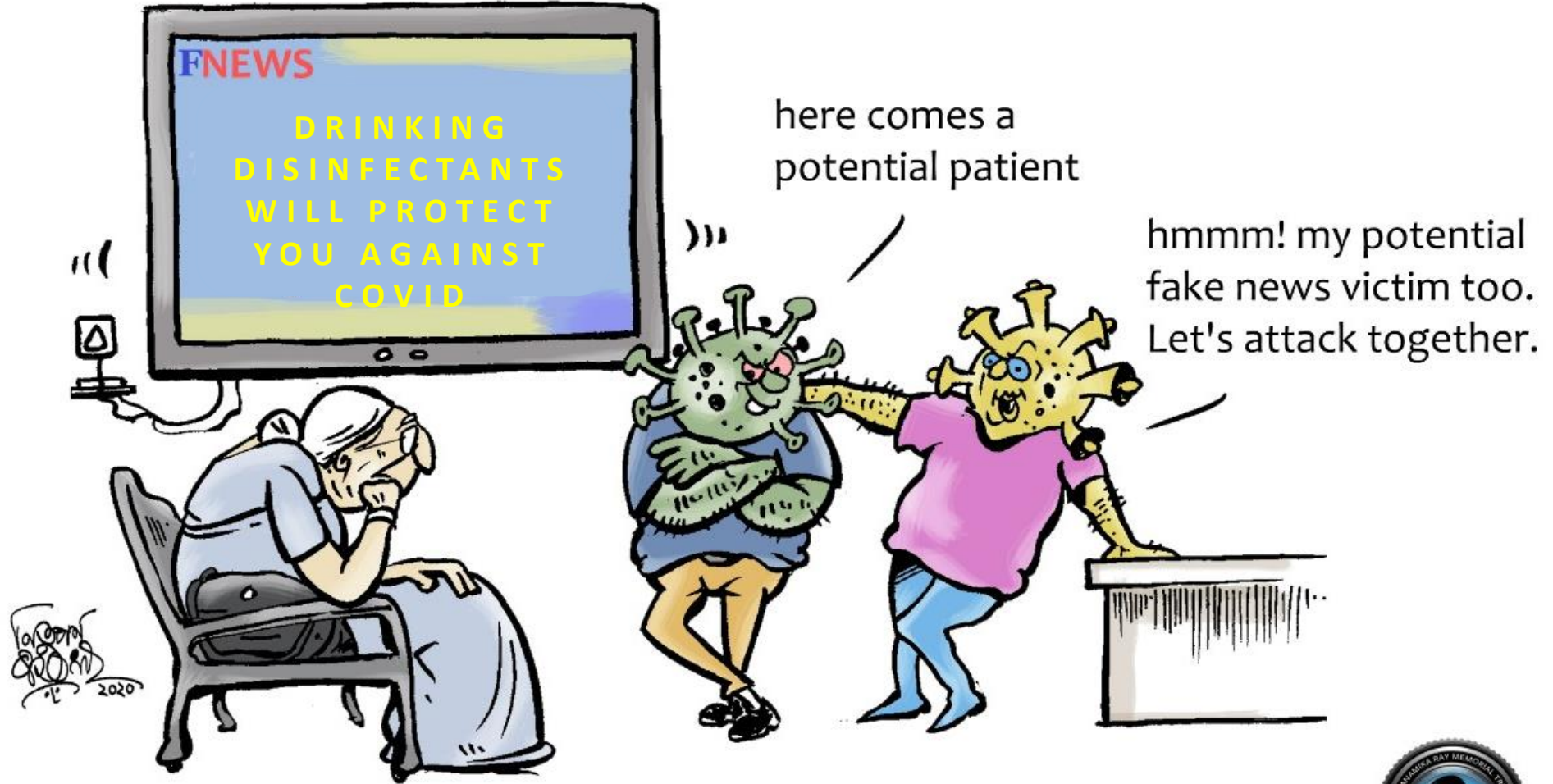
- Fear-based messaging alone doesn't work to change behaviors
 - Fear >>> Efficacy:
The individual will manage the fear by minimizing the risk or ignoring the messaging
 - Efficacy >>> Fear:
The individual will take the desired preventive actions.

Communication strategies must strike a balance between breaking through optimism bias without inducing excessive feelings of anxiety and dread.



Let's Fight #Infodemic

#CheckTheFake on #COVID19





PRIMARY CARE

- Trustworthy
- Reassuring
- Health promoters
- Mythbusters
- Integrative



EFFECTIVE SCIENCE & RISK COMMUNICATION



Risk communication key points for primary care providers (1/3)

- Build and reinforce trust
- Access adequate risk information
- Open acknowledge uncertainty
- Engage community

Risk communication key points for primary care providers (2/3)

- Keep it short
- Explain risk in lay terms
- Use clear simple language
- Use 3 key messages, 7-12 words each, 3 supporting facts
- Promote specific actions people can realistically adopt
- Emphasize benefits, focus on protecting others, align with receptor's moral values, appeal to social consensus or scientific norms and highlight the prospect of social group approval
- Epic narrative
- Avoid negative language and repeating, 3 + for 1 -

Risk communication key points for primary care providers (3/3)

- Integrate social and traditional media to achieve convergence of verified, accurate information
- Review and reshape messages periodically
- Evaluate interventions for improvement of ongoing and future responses
- Consider training yourself in risk communication



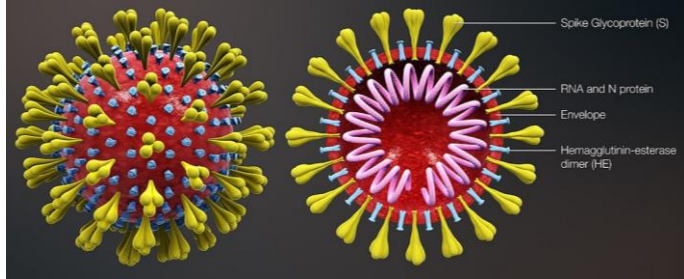
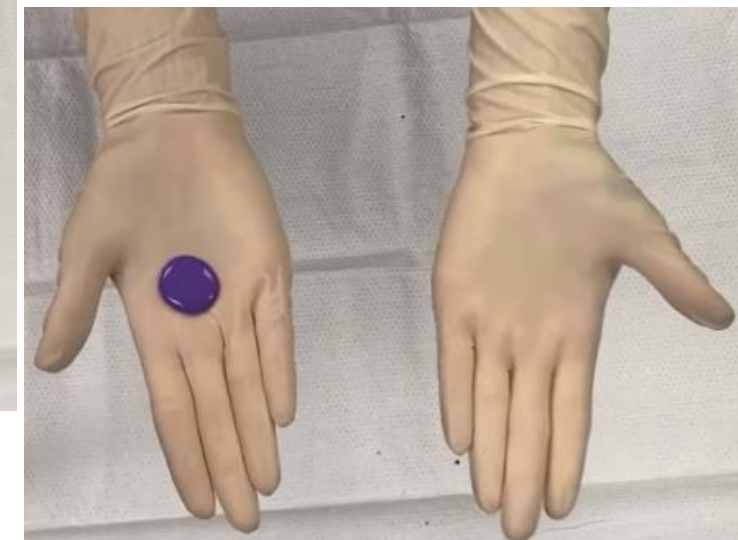


Chart 1 - Persistence of coronaviruses on inanimate surfaces.
Belo Horizonte, Minas Gerais, Brazil, 2020.

Type of surface	Persistence
Steel	48 hours
Metal	5 days
Paper	4-5 days
Glass	4 days
Plastic	< 5 days
Silicone rubber	5 days
Latex Glove	< 8 hours

Source: Adapted from Kampf, et al. ⁵



https://www.youtube.com/watch?v=nEzJ_QKjT14



Dreibelbis et al., 2016;
<https://doi.org/10.3390/ijerph13010129>



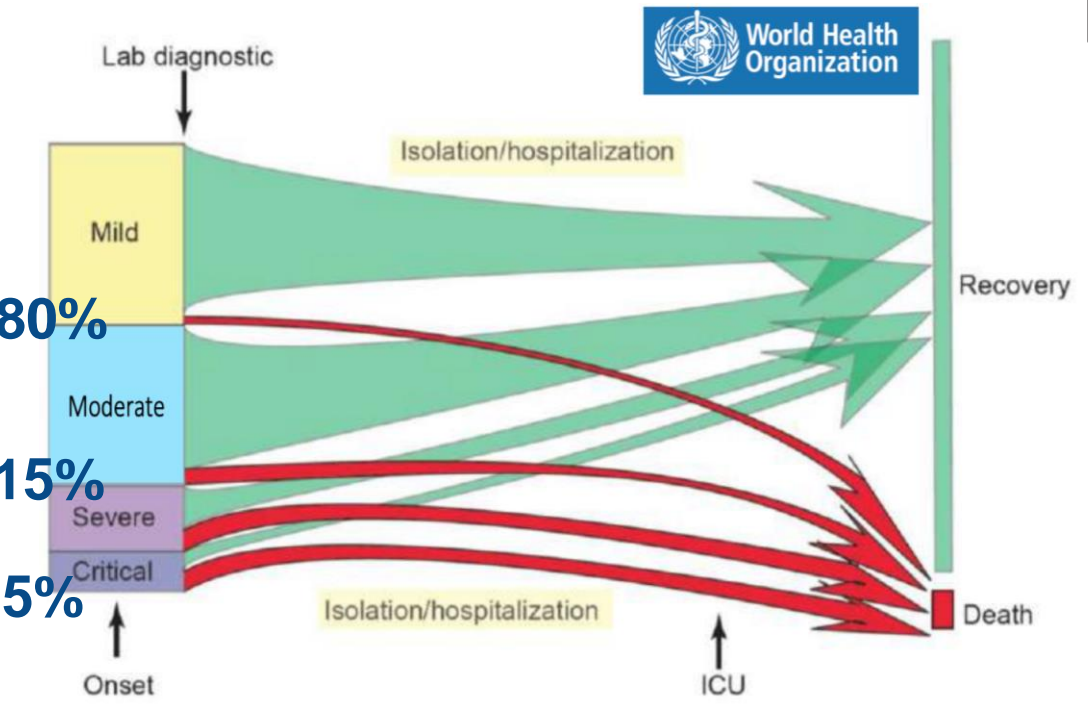
Symptoms can range from mild to severe illness, and appear 2-14 days after you are exposed to the virus that causes COVID-19.

Symptoms of Coronavirus (COVID-19)

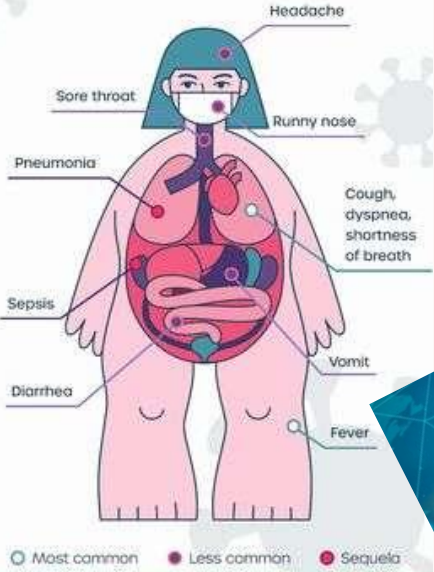
Know the symptoms of COVID-19, which can include the following:



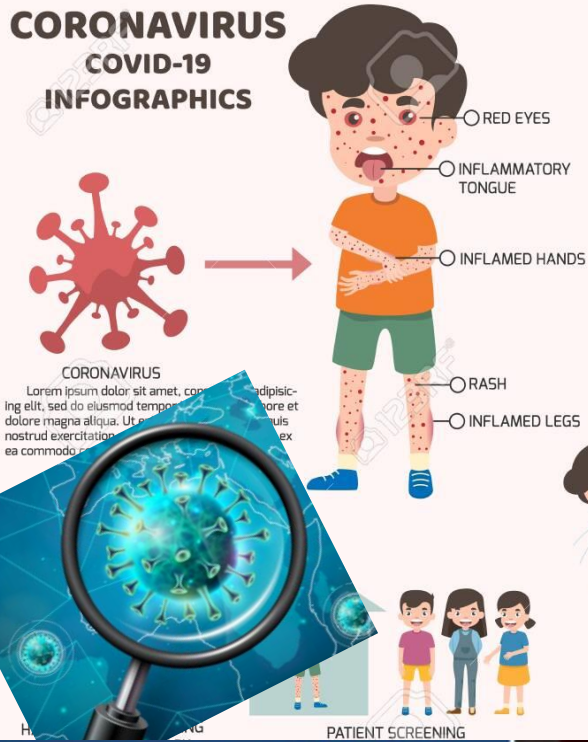
And headache, diarrhea, fatigue, skin lesions, etc...



Coronavirus disease COVID-19 symptoms and sequels

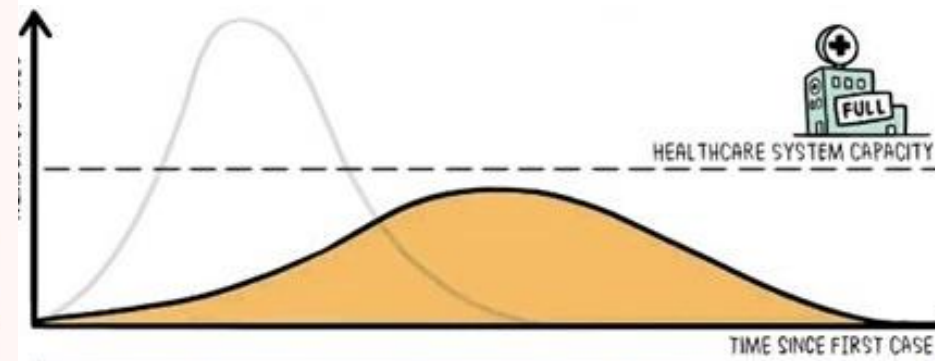


CORONAVIRUS COVID-19 INFOGRAPHICS



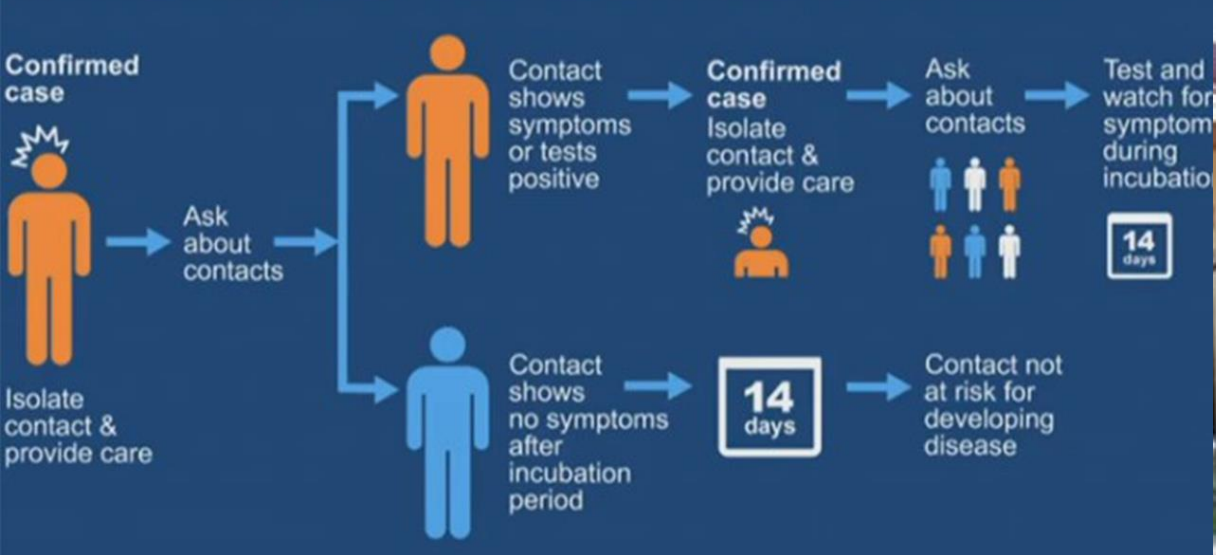
SYMPTOMS

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.



©SIEW @XTOTL @THESPINOFTV *ADAPTED FROM THOMAS SILETTSTOBER (@SILETT) AN

CONTACT TRACING FINDS CASES QUICKLY SO THEY CAN BE ISOLATED TO REDUCE SPREAD





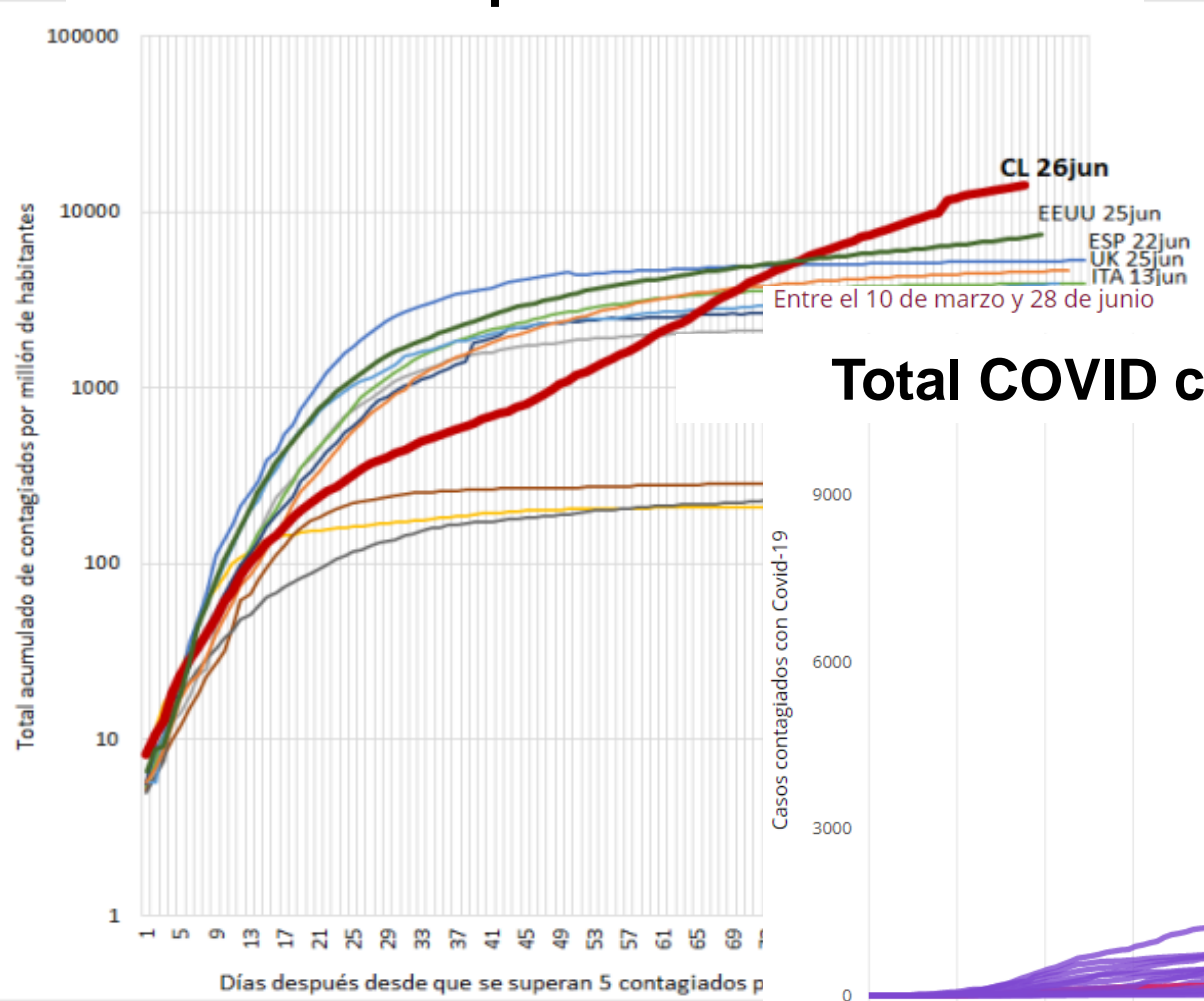
Chile: pandemic highlights health crisis as lockdown halts inequality protests

Coronavirus arrives against backdrop of unresolved social tensions that fueled last year's explosion of protests

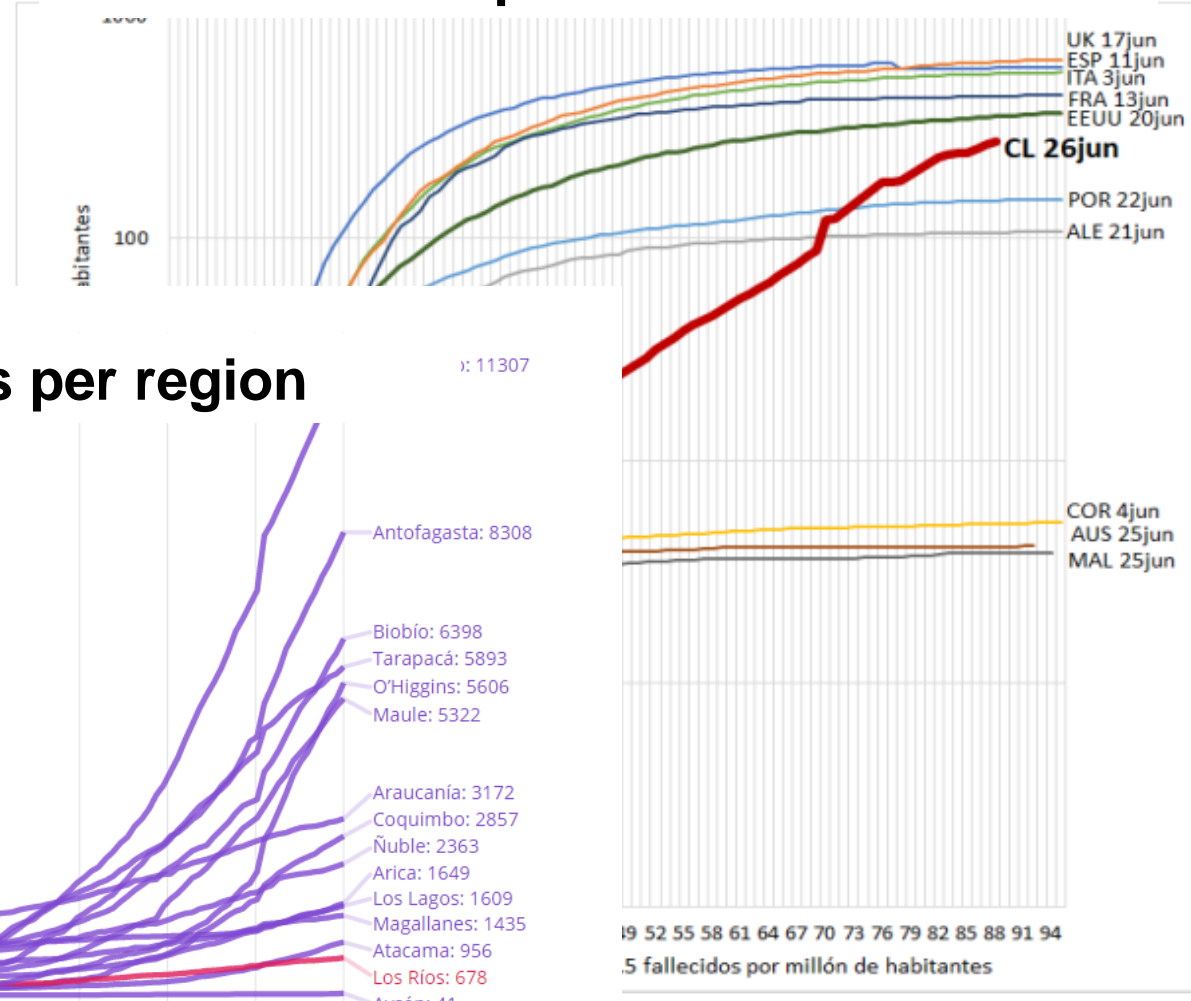


▲ A demonstrator clashes with security forces in Santiago on 27 April. Photograph: Anadolu Agency/Anadolu Agency via Getty Images

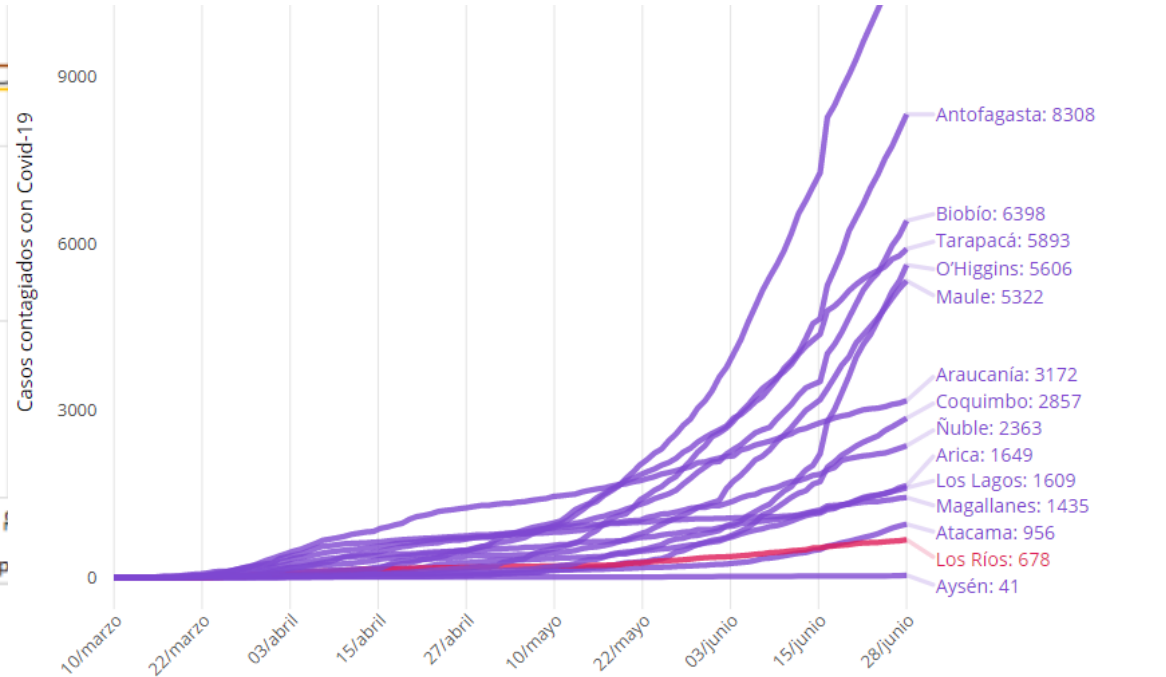
COVID cases per million inhabitants



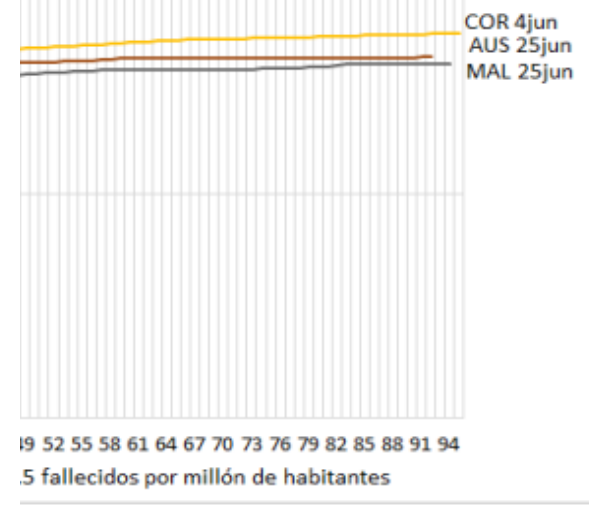
COVID deaths per million inhabitants



Total COVID cases per region

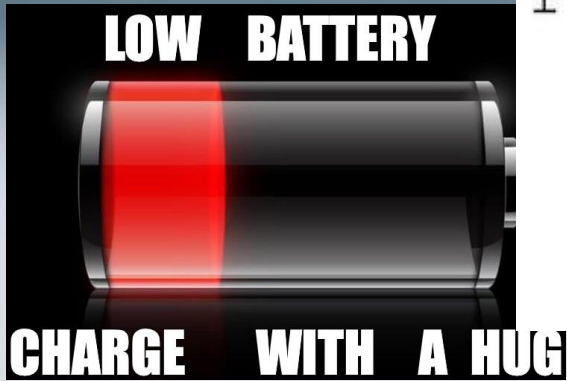
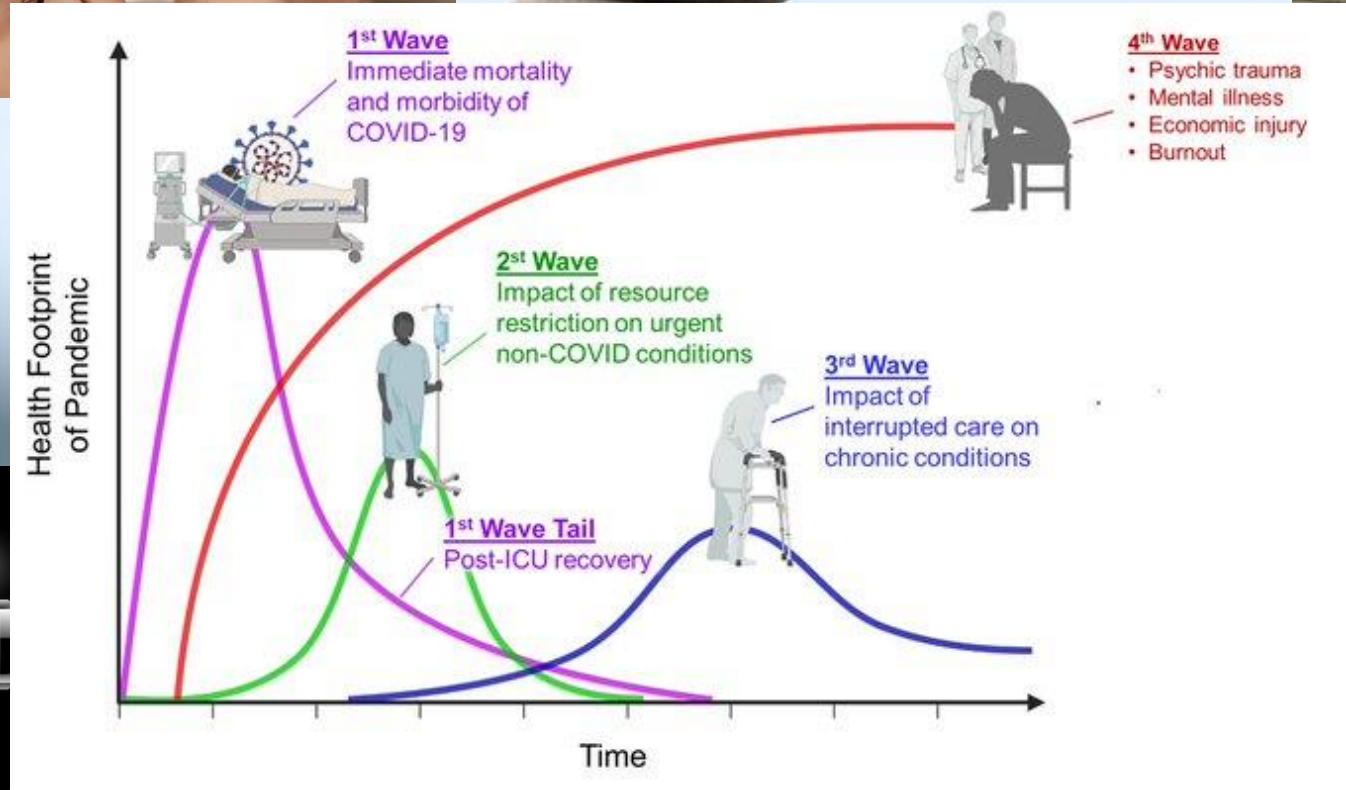


Mesa de datos COVID-19, casos totales por región incremental
Ministerio de Ciencia, Tecnología, Conocimiento e Innovación



What worked for us





Challenges for Health Education in COVID times

Final recommendations for effectively helping real people to act safe

- Know the drill
- Have a plan
- Know the context
- Remember marginalized communities
- Review and reshape messages ongoing
- Counteract fake news and misinformation
- Engage the community with an epic narrative
- Stay positive and healthy yourself

COVID-19 & the Importance of Public Education in Primary Care

or how to effectively help real people act safely



THANK YOU 😊

javiera.corbalan@gmail.com