# **COVID-19: Pulmonary & Geriatric Outpatient Considerations**

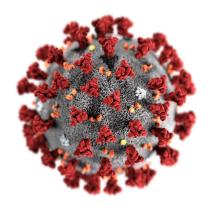
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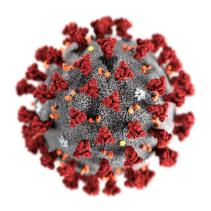
#### Outline

- COVID-19 Epidemiology
- Vulnerable Populations
- Illness Trajectory
- What to do NOW in clinic
- Resources

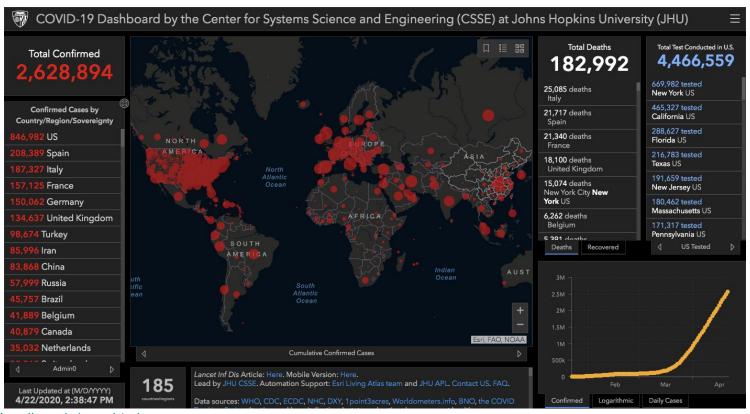


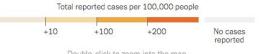
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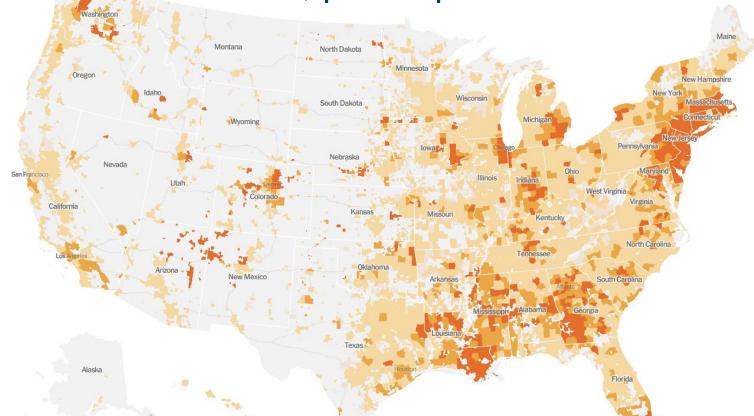


#### Worldwide Covid-19 Cases

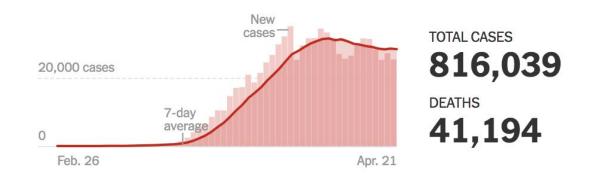




COVID-19 Nationwide, per Capita

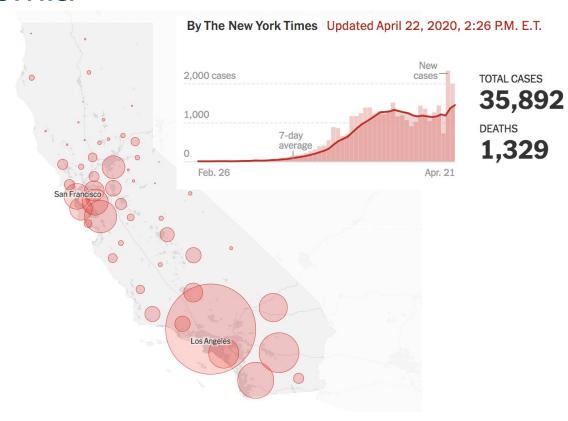


#### COVID-19 Cases & Deaths Nationwide



#### COVID-19 in California





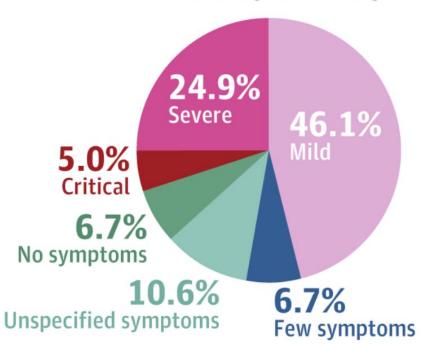
#### COVID-19 in San Francisco



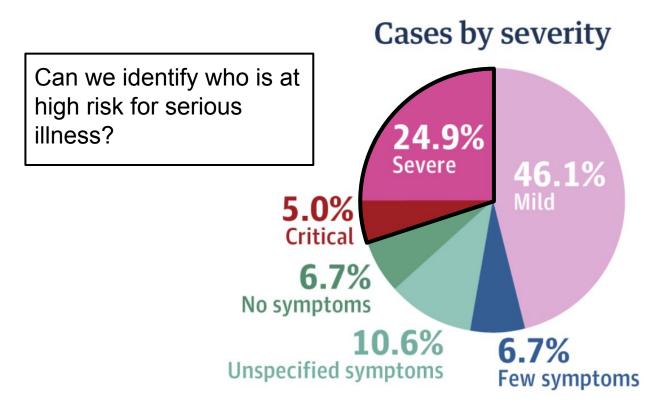
10.2% positivity rate

# How sick do people get with COVID-19?

#### Cases by severity

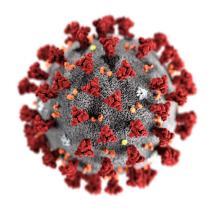


# How sick do people get with COVID-19?



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# Who is at high risk?

- Increasing age (CDC says > 65 years old)
- Congregate living (e.g. SNF, assisted living, prisons)
- Underlying medical conditions, particularly if not well controlled:
  - Chronic lung disease (COPD, ILD), moderate to severe asthma?
  - Serious heart conditions
  - Immunosuppression (e.g. cancer treatment, h/o transplant, HIV/AIDS)
  - Severe obesity (BMI ≥ 40)
  - Diabetes
  - CKD on dialysis
  - Liver disease

# Comorbidities & Case-Fatality Rate

Comorbidity	Case-Fatality Rate
Cardiovascular disease	10.5%
Diabetes	7.3%
Chronic respiratory disease	6.3%
Hypertension	6.0%
Cancer	5.6%
No comorbidities	0.9%

#### **Case-Fatality Rate**

- # of deaths ÷ # of cases
- probability of dying if infected

https://www.worldometers.info/coronavirus/coronavirus-age-sex-demographics/

#### Asthma?

- May be lower risk than previously assumed
- Only 5% prevalence in NY state's fatal COVID-19 cases
- Top Co-morbidities in NY:
  - Hypertension, DM, high cholesterol, CAD, dementia, AF
  - o COPD is 7th

# Asthma Is Absent Among Top Covid-19 Risk Factors, Early Data Shows

Despite warnings that asthmatics were at higher risk for severe illness from the coronavirus, asthma is showing up in only about five percent of New York State's fatal Covid cases.



# Age & Case-Fatality Rate

	Case Fatality Rate (CFR)	
Age	China	ITALY (as of March 17 <sup>th</sup> , 2020)
0-9	0.0%	0%
10-19	0.18%	0%
20-29	0.19%	0%
30-39	0.02%	0.3%
40–49	0.44%	0.4%
50-59	1.3%	1.0%
60-69	3.6%	3.5%
70–79	8.0%	13%
≥80	15%	20%

↑ age →↑ case-fatality rate

#### Older Adults & COVID-19

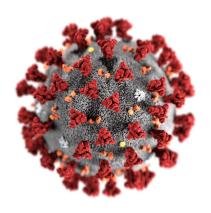
For patients age 75 year or older affected by Covid:

- ~ 50% will be ok at home
- ~ 50% will require admission to the hospital
- ~ 25% will require intensive care

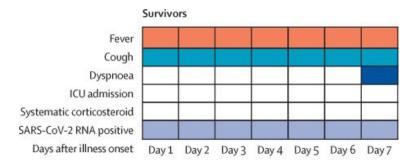


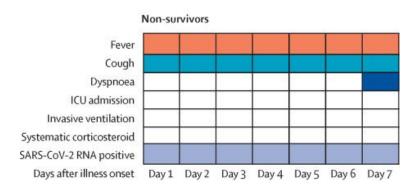
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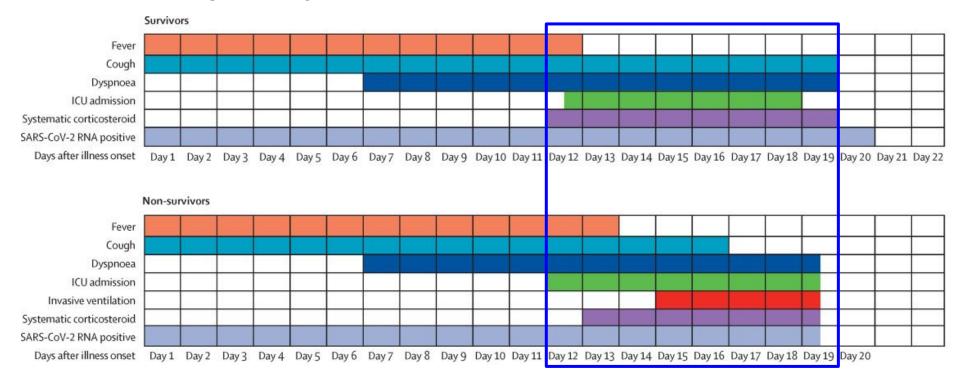
# Illness Trajectory: Week One





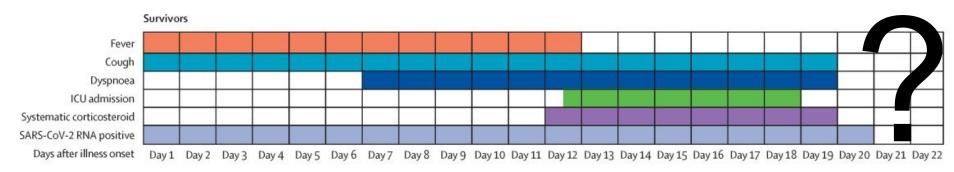
Zhou F, Yu T, Du R, et al. Clinical course and risk factors for mortality of adult inpatients with COVID-19 in Wuhan, China: a retrospective cohort study. *The Lancet*. 2020;395(10229):1054-1062. doi:10.1016/S0140-6736(20)30566-3

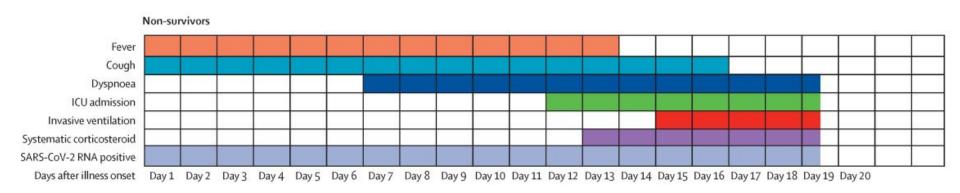
# Illness Trajectory: Week Two +



Zhou F, Yu T, Du R, et al. Clinical course and risk factors for mortality of adult inpatients with COVID-19 in Wuhan, China: a retrospective cohort study. *The Lancet*, 2020;395(10229):1054-1062, doi:10.1016/S0140-6736(20)30566-3

# Illness Trajectory: What happens after recovery?





# Caring for COVID-positive Patients at Home

Mrs. L is a 86 YO F with a history of advanced dementia T2DM, and HTN who lives with her daughter, who is her DPOA. She recently tested positive for COVID and her daughter is clear that she does not want to go to the hospital.

She currently only has a mild cough, but her daughter wonders what options are available to support her at home.

# Bay Area Home Health and Hospice Agencies

Updated list of **home health agencies** who can admit COVID+ patients:

https://drive.google.com/file/d/1kYSR8nrcQ3BJH5dMvQ-hY70XB7b4uXwV

Updated list of **home hospice agencies** who can admit COVID+ patients:

https://drive.google.com/file/d/1QBh--2e8ZHWjqjtox8RpAuSMLtJPmmXr/view?usp=sharing

# Outpatient management

- Treatments-- supportive management = standard of care. All others still investigational and NOT standard of care (do not recommend these are prescribed)-- recent NIH recommendation
  - Azithromycin & Hydroxychloroquine-- QTc prolongation risk
  - Steroids (except perhaps asthma/COPD exacerbation)
- Role of imaging? <u>ACR:</u> CXR/CT for dx inappropriate
- Role of home pulse oximetry?
- Role of temperature monitoring?

\*NON-COVID patients\* High concern for delayed medical care given COVID fears-- important to encourage appropriate use of outpatient and urgent/ER visits

### In the hospital...

- Course can be variable and unpredictable, that is why close follow up post-hospitalization is critical
- Management is supportive (oxygenation, maintaining fluid status)
- In the ICU: standard ARDS management
  - Conservative tidal volume strategy
  - Proning
  - Careful monitoring of fluid status
- Investigational: use of prednisone, azithromycin, HCQ, remdesevir, etc (not standard of care)



# Post-hospitalization

- Post-hospitalization/ICU risks
  - Weakness
  - Delirium
  - o PTSD
  - Unknown end-organ complications?
- Close follow-up for delayed complications
- Telemedicine, home health, phone calls











Write date and staff names on board to orient patient.



Patient out of bed to chair for all 3 meals. Ask for assistance if you need help.



Walk patient 3x/ day. Engage patient in conversation.



Each visit introduce yourself, remind patient where they are, what day and time it is.



Patient is wearing hearing aids/glasses (if needed) to hear and see appropriately.



Provide activities like games and reading materials to keep patient's mind active while awake.



Make sure your patient has water within reach at all times. Dehydration is the #1 complaint in the hospital!



Make sure family members have been provided the pamphlet about delirium and discuss any questions they have. It is ok to refer to the nurse or doctor if you are unsure.



Discuss with the nurse at each shift if the patient truly needs the following: nasal cannula on their nose, foley catheter, telemetry, and CPO. These "tethers" make it difficult for the patient to move and can contribute to confusion.

# Ambulatory Follow-Up for COVID-19: The OPTIMAL clinic

(pOst-covid/PosT-Icu MultidisciplinAry cLinic)



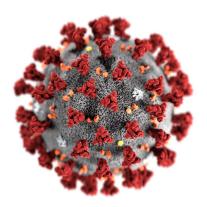
- New at UCSF-- multidisciplinary: pulmonary, geriatrics & psychiatry
- Integrated clinical follow-up and research arms
- Will see patients 1-2 weeks post-discharge (telemedicine), 1 mo, 3 mo, 6 mo, 9 mo,
   12 mo post-discharge
- Please refer any patients post-ICU or with persistent pulmonary symptoms (dyspnea, hypoxia, cough)

Questions? Contact lekshmi.santhosh @ucsf.edu



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- Resources for Caring for Patients



#### The COVID-19 talk families need to have now

Health care experts say all adults should think about their end-of-life wishes to make things easier on themselves, their families and doctors and nurses who might see them in the E.R.





# Do your loved ones a favor. Find out now how they want to die.

I'm an ER doctor, and we need to know what matters most to your family member.





#### It's Time to Talk About Death

The coronavirus pandemic highlights how much we need to have conversations about end-of-life care.

By Sunita Puri, M.D.

Dr. Puri is the author of "That Good Night: Life and Medicine in the Eleventh Hour."



# Advance Care Planning in the context of COVID-19

Mr. C is a 78yo M with heart failure and COPD who lives with his spouse. He has had two hospitalizations for heart failure exacerbations in the past year, and relies on his spouse for help with his IADLS.

You're having a routine visit, and he brings up his worries about COVID-19.

#### If you have five minutes

Advance Care Planning in the context of COVID-19



#### How to start to the conversation

"We just have a few minutes, but I wanted to take a moment to talk to you about advance care planning. This involves choosing an emergency contact and the medical care that is important to you."

"During COVID-19, it is more important than ever that we know what is important to you."

# Ask about surrogate decision maker

"First, I would like to ask if there is someone you trust to help make medical decisions for you if there ever came a time you could not speak for yourself?"

#### If you have fifteen minutes

Advance Care Planning in the context of COVID-19



# Conversation Guide to Discuss Planning for COVID-19

Proactive Planning	What to say
C - Check in	"I want to take a moment to see how are you doing with all of this?"
A - Ask about COVID-19	"What have you been thinking about COVID and your situation?" "What do you understand about the complications of COVID-19 given your medical condition(s)?"
L - Lay out the issues	"Because of your health issues, you are at high risk of getting really sick, and even dying, if you got COVID."
<b>M</b> - Motivate to choose a proxy and talk about what matters most	"If things took a turn for the worse, what you say now can help your family / loved ones?"  Choose a surrogate: "Who is your backup person—who helps us make decisions if you can't speak?  Who else?"  What matters: "We're in an extraordinary situation. Given that, what matters to you?" "What worries you most?"
E - Expect emotion	Name the emotion: "It can be scary to think about what may happen." Understand and support: "I know this is a lot to take in all at once. I want to support you anyway I can."
R - Recommend a plan	"Based on what I've heard, I'd recommend [this]. What do you think?
R - Record	Document conversation

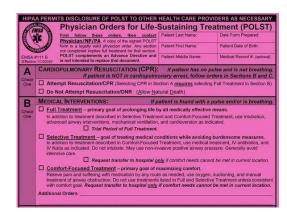
https://www.vitaltalk.org/guides/covid-19-communication-skills/

# COVID-19 Conversation Guide for Outpatient Care



#### Document the conversation

- Document conversation in EMR
- 2. Complete a **POLST form** 
  - Important if patient does not elect full treatment
  - Fill out by phone or video with patient
  - Send original and copy to patient to cosign
- Website for patients to complete their advance directive:
  - https://prepareforyourcare.org/covid-19





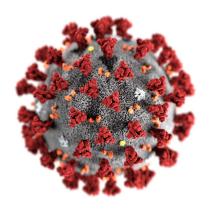
#### Address social isolation/loneliness

- Social isolation and loneliness negatively impacts health
- Everyone is at high risk due to shelter in place and social distancing
- Older adults and those with many medical problems are at particular risk
- Ask about this at office visits and offer connection resources--- see upcoming slides



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# Advance Care Planning Resources

- Center to Advance Palliative Care
   https://www.capc.org/toolkits/covid-19-response-resources/
- VitalTalk COVID Ready Communication Playbook
   https://www.vitaltalk.org/guides/covid-19-communication-skills/
- Ariadne Labs Serious Illness Care Program COVID-19 Response Toolkit <a href="https://www.ariadnelabs.org/coronavirus/clinical-resources/covid-conversations/">https://www.ariadnelabs.org/coronavirus/clinical-resources/covid-conversations/</a>
- PREPARE For Your Care
   https://prepareforyourcare.org/covid-19

# Loneliness/Social Isolation/Activity Resources

- Institute on Aging offers a free 24/7 Friendship Hotline: 1-800-971-0016.
- Covia Well-Connected: <a href="https://covia.org/services/well-connected/">https://covia.org/services/well-connected/</a>
- Little Brothers Friends of the Elderly (social calls): <a href="http://littlebrotherssf.org/">http://littlebrotherssf.org/</a>
- Alzheimer's Association Caregiving Resources:
- https://www.alz.org/help-support/caregiving/coronavirus-(covid-19)-tips-for-de mentia-care
- DownDog Yoga app-- chair yoga and multiple languages
- Yoga Works-- offers many high quality, free classes each day, including a
  wide range of yoga styles, pilates, toning classes, and classes for children:
  <a href="https://www.yogaworks.com/classes/live/">https://www.yogaworks.com/classes/live/</a>
- "Yoga with Adriene" provides free online yoga for a range of abilities and bodies: <a href="https://www.youtube.com/user/yogawithadriene">https://www.youtube.com/user/yogawithadriene</a>

### Anxiety/Stress Resources

- Headspace: Two-week free trial for the general public.
- Calm: Seven-day free trial. A meditation, sleep, and relaxation app that also provides resources specifically for coping with COVID-19 anxiety.
- Stop, Breathe & Think: Always free, and includes recordings for children.
- 10% Happier: Free and paid options available.
- UCLA Mindful App: Free and has meditations led by Diana Winston, Director of Mindfulness Education at UCLA's Mindful Awareness Research Center.
- **Ziva Meditation**: Two-week introductory course led by Emily Fletcher designed to help you develop a daily, independent meditation practice. This is a paid online course that is 50% off for the general public and free for health care professionals during the pandemic.

#### Clinician Education Resources

- American Thoracic Society:
   <a href="https://www.thoracic.org/covid/covid19-clinician-resources.php">https://www.thoracic.org/covid/covid19-clinician-resources.php</a>
- ATS Toolkit for Caring for Older Adults
   https://www.thoracic.org/professionals/clinical-resources/critical-care/c
   ritical-care-research/ats-toolkit-for-older-adults.php
- The Curbsiders Internal Medicine Podcast
  - (multiple COVID podcasts): <a href="https://thecurbsiders.com/">https://thecurbsiders.com/</a>
- GeriPal, A Geriatrics & Palliative Care Blog and Podcast
  - (multiple COVID interviews): <a href="https://www.geripal.org/">https://www.geripal.org/</a>
- UCSF Resources: <a href="https://coronavirus.ucsf.edu/">https://coronavirus.ucsf.edu/</a>

# Favorite Lay Press Articles

- Ageism Is Making the Pandemic Worse (Atlantic--Louise Aronson, MD)
- ICU physician thanks San Franciscans for helping curb coronavirus (SF Chronicle--Richard Wang, MD)
- Meeting the Care Needs of Older Adults Isolated at Home
   During the COVID-19 Pandemic (JAMA-- Michael Steinman,
   MD, Laura Perry, MD, Carla Perissinotto, MD, MHS)