

The COVID-19 Chronicles:

Real-World Perspectives on Cancer Care,
Emergency Medicine and Healthcare Disparities

A red rectangular sign with a green border and the word "EMERGENCY" in white, bold, sans-serif capital letters. The sign is mounted on a white building facade with horizontal slats. The background of the entire slide is a composite image featuring a blue-tinted electron micrograph of cellular structures, a horizontal band of blue and red molecular models, and the emergency sign at the bottom.

EMERGENCY



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Learning Objectives

Upon completion of this activity, participants should be better able to:

- Explain how to ensure the protection of health care workers providing care for patients with cancer and others at high risk of COVID-19
- Provide optimal care for cancer patients and others at high risk of COVID-19 based on evolving data and recommendations
- Recognize and address racial disparities and inequities in health care delivery that may be exacerbated by the COVID-19 pandemic



Protecting Cancer Patients and Others at High Risk of COVID-19

Incidence of COVID-19 in Patients with Cancer

Higher incidence of COVID-19 has been reported in patients with cancer

Yu et al ¹	<ul style="list-style-type: none">• 1,524 patients with cancer admitted between Dec 2019-Feb 2020• 0.79% were diagnosed with COVID-19 (cumulative incidence in community 0.37%)
Liang et al ²	<ul style="list-style-type: none">• Incidence of 1% compared with 0.29% in the general population
Rogado et al ³	<ul style="list-style-type: none">• Incidence of 4.2% compared to 0.63% in the community
Richardson et al ⁴	<ul style="list-style-type: none">• Higher prevalence of cancer in those with COVID-19 has been reported from NYC• 6% of 5,700 hospitalized patients with COVID-19 had cancer
Grasselli et al ⁵	<ul style="list-style-type: none">• In Italy, 8% of the 1,591 patients admitted to the ICU with COVID-19 had histories of cancer (active and in remission)

PE, pulmonary embolism.

1. Yu J, et al. JAMA Oncol. 2020;6:1108-1110; 2. Liang W, et al. Lancet Oncol. 2020;21:335-337; 3. Rogado J, et al. Clin Transl Oncol. 2020:1-5; 4. Richardson S, et al. JAMA. 2020;323:2052-2059; 5. Grasselli G, et al. JAMA. 2020;323(16):1574-1581.

Which Cancer Patients Are at Risk?

Patients who are older, obese, with medical co-morbidities and who have been diagnosed with heme malignancies, lung cancer, and metastatic disease are at higher risk

Passamonti, et al ¹	<ul style="list-style-type: none">• Mortality rates higher (37%) among 536 symptomatic patients with hematologic malignancies and positive PCR for COVID-19 (Feb 25 to May 18, 2020)• Compared with general Italian population with COVID-19, standardized mortality ratio was 2.04 (95% CI 1.77–2.34)
Malard, et al ²	<ul style="list-style-type: none">• 25 patients with hematologic malignancies (mostly multiple myeloma)• Patients with hematologic malignancies appear to be a population very vulnerable to COVID-19 infection; very high mortality (~40% at 1 month)
Van Doesum, et al ³	<ul style="list-style-type: none">• Among 59 patients with hematologic malignancies, 34% died due to COVID-19• Mortality rates:<ul style="list-style-type: none">• Patients >60 years of age, 45%• Patients ≤60 years of age, 11%• No difference in survival between lymphoid and myeloid malignancies

Factors Associated With COVID-19 Severity

Variable	Univariate		Multivariate	
	OR (95% CI)	P	OR (95% CI)	P
Predictors of hospitalization, by logistic regression (n=411)				
Age (>65 y)	1.81 (1.20-2.71)	.004	1.53 (0.96-2.43)	.072
Sex (female)	0.89 (0.60-1.32)	.575		
Race (non-white)	1.36 (0.91-2.04)	.135	1.62 (1.05-2.51)	.029
BMI (≥ 30 kg/m ²)	0.89 (0.58-1.36)	.585		
Smoking (current/former)	1.60 (1.07-2.40)	.022	1.37(0.88-2.13)	.169
Asthma/COPD	1.39 (0.81-2.37)	.226	1.07 (0.59-1.92)	.828
Cancer (non-metastatic solid)	1.00 (Ref)	-	1.00 (Ref)	
Cancer (metastatic solid)	0.89 (0.53-1.50)	.647	0.76 (0.43-1.34)	.338
Cancer (hematologic)	2.24 (1.25-4.06)	.007	2.49 (1.35-4.67)	.003
Major surgery (within 30 days)	1.24 (0.53-2.84)	.612		
Diabetes	1.20 (0.73-1.96)	.467		
Cardiac disorder	1.86 (1.13-3.07)	.015	1.35 (0.7-2.36)	.297
HTN/chronic kidney disease	1.84 (1.24-2.75)	.003	1.51 (0.96-2.39)	.077
Systemic chemotherapy (within 30 days)	1.04 (0.70-1.54)	.845		
Chronic lymphopenia or corticosteroids	1.86 (1.11-3.15)	.019	1.85 (1.06-3.24)	.030
ICI	2.53 (1.18-5.67)	.017	2.84 (1.24-6.72)	.013

Cancer	Endpoint	Non-ICI/total n (%)	ICI/total n (%)
Lung cancer	Hospitalization	12/23 (52)	10/12 (83)
	Severe respiratory illness	8/23 (35)	7/12 (58)
Other solid cancers	Hospitalization	82/216 (38)	8/17 (47)
	Severe respiratory illness	34/221 (15)	5/19 (26)

COVID-19 and Cancer: Additional Considerations

- TERA-VOLT¹ study in lung cancer patients with COVID-19
 - High mortality but low admission rates to intensive care units in patients with thoracic cancer
 - 88% met criteria for ICU admission but only 9% were actually admitted
 - Type of systemic therapy, including TKIs, chemotherapy, and immunotherapy, did not affect survival in patients with COVID-19
- Multiple meta-analyses have also shown a worse clinical outcome among patients with cancer who have COVID-19²⁻⁴
- To decrease the risk of complications due to neutropenia, anemia and thrombocytopenia, NCCN[®] developed consensus guidelines on the use of granulocyte colony-stimulating factors, erythropoiesis-stimulating agents and thrombopoietic mimetics⁵

TKI, tyrosine kinase inhibitors.

1. Garassino et al. *Lancet Oncol.* 2020;21:914-922; 2. Giannakoulis et al. *JCO Glob Oncol.* 2020;6:799-808; 3. Desai et al. *JCO Glob Oncol.* 2020;6:557-559; 4. Venkatesulu et al. *medRxiv.* 2020;2020.05.27.20115303; 5. Griffiths et al. *JNCCN* 2020.

Patient and Healthcare Worker Safety During Early Phases of the Pandemic

Patient Safety

- Prescreen & screen for COVID-19 symptoms & exposure history via telephone calls or digital platforms
- Develop screening clinics to allow for patients with symptoms to be evaluated and tested in a dedicated unit with dedicated staff
- Convert in-person visits to telemedicine visits when possible
- Institute limited or no visitor policy
- Limit surgeries & procedures to only essential, urgent, or emergent cases
- Consider alternative dosing schedule to allow for fewer in-person visits to the cancer center and/or the infusion center
- Switch therapy to oral oncolytics if equivalent formulation of infusional therapy is available
- Transition outpatient care to care at home whenever possible (pump disconnection, administration of growth factors, hormone tx)
- Increase interval between scans or use biochemical markers in lieu of scans
- Provide resources for wellness & stress management for patients

Healthcare Worker Safety

- Assure appropriate personal protective equipment (PPE) per guidelines
- Create a centralized resource or website to communicate recommendations to healthcare workers as guidelines around PPE & workflows change
- Implement daily screening tools and/or temperature checks
- Telecommute when possible, with limited onsite staff participating in rotations on a daily basis
- Establish clear stay-at home & return-to-work guidelines
- Provide resources for wellness & stress management for healthcare workers

Patient and Healthcare Worker Safety During the Pandemic

 Screening / Safety	 In-Clinic Practice	 In-Clinic Safety	 Clinical Trials	 Wellness
<ul style="list-style-type: none">Automated messages and digital tools to pre-screen and screen patients for symptoms and exposure.Screening with temperature checks can be considered at check-in.Workflows should be developed for those who screen positive at the entrance.Adequate and appropriate personal protective equipment (PPE) is essential.PPE guidelines for each procedure can be developed.Universal masking should be required in all clinical areas by employees, patients and visitors.	<ul style="list-style-type: none">Continued telemedicine visits via video or telephone calls if appropriate.Optimization of provider templates to allow for blocked times for video visits versus in-clinic visits. This will allow for better resource utilization (room and support staff availability) and decreasing risk of overcrowding in clinic and work-rooms. It will also allow for decreased risk of exposure for the patients.Dashboards to follow patient volumes in clinic and in infusion centers.	<ul style="list-style-type: none">"No visitor" or "limited visitor" policy.Interventions for safe physical distancing: floor and chair signs that mark a distance of 6-feet; Plexiglass screens between patients and staff.Remote registration, check-in and check-out via telehealth.Well-defined return-to-work guidelines.Testing strategies for asymptomatic patients and employees should be determined by the local prevalence of COVID-19 and available testing capacity.	<ul style="list-style-type: none">Increased volume of open trials and rates of accrual in alignment with clinical recovery efforts.Continued remote visits whenever possible.Continued remote documentation, consenting and e-signatures as indicated.Training of clinical research coordinators in safety practices.Remote monitoring by study monitors.	<p>Patients</p> <ul style="list-style-type: none">Cancer support groupsSocial work, psycho-oncology and spiritual resources. <p>Healthcare Workers</p> <ul style="list-style-type: none">Counseling sessions and exercise classesSeminars on "compassion fatigue" to mitigate emotional impact of the pandemic in oncology care.Arrangements for childcare for faculty and staff with school-aged children.

CDC Recommendations for Discontinuation of Isolation

- Isolation and precautions can generally be discontinued 10 days *after symptom onset* and resolution of fever for at least 24 hours, without the use of fever-reducing medications, and with improvement of other symptoms
- For persons who never develop symptoms, isolation and other precautions can be discontinued 10 days *after the date of their first positive RT-PCR test for SARS-CoV-2 RNA*
- For persons who are severely immunocompromised, a test-based strategy could be considered
- For all others, a test-based strategy is no longer recommended except to discontinue isolation or precautions earlier than would occur under the strategy outlined above

CDC Recommendations for PCR testing Beyond Discontinuation of Isolation

Patients previously <u>diagnosed</u> with symptomatic COVID-19 who remain asymptomatic after recovery	<ul style="list-style-type: none">Retesting not recommended within 3 months after date of symptom onset for initial COVID-19 infection
Patients who develop <u>new symptoms</u> consistent with COVID-19 during the 3 months after date of initial symptom onset	<ul style="list-style-type: none">If alternative etiology cannot be identified by provider, may warrant retestingIsolation may be considered during this evaluation, especially in the event symptoms develop within 14 days after close contact with an infected person
Patients who <u>never developed symptoms</u>	<ul style="list-style-type: none">The date of first positive RT-PCR test for COVID-19 should be used in place of date of symptom onset

Patient Populations at High Risk of COVID-19 in the Emergency Department

Emergency departments are the safety nets for our healthcare system

- Every patient population passes through the emergency department doors
- However, emergency department tend to see more marginalized and minority community members at high risk of contracting and dying from COVID-19
- Why?
 - Increased exposure
 - Increased susceptibility
 - Decreased access to care



Racial Disparities and Inequities in Healthcare Delivery During the COVID-19 Pandemic

Disparities and Healthcare Inequities

- Minorities are more likely to hold essential jobs that don't allow for the flexibility of working from home¹
- Minorities are also more likely to work lower-income jobs that provide minimal or no health insurance coverage¹
 - Uninsured rate as of 2018: 11% for blacks, 18% for Hispanics²
- Of 965 patients with COVID-19 reported in ASCO CancerLinQ³
 - Black and LatinX patients with cancer had a higher risk of developing COVID-19 (RR: **1.69** and **5.25**, respectively)
 - Although all-cause mortality was not elevated in these patients

1. Balogun et al. *JAMA Oncol.* 2020;10.1001/jamaoncol.2020.3327.

2. Kaiser Family Foundation estimates, based on the Census Bureau's American Community Survey, 2008-2018.

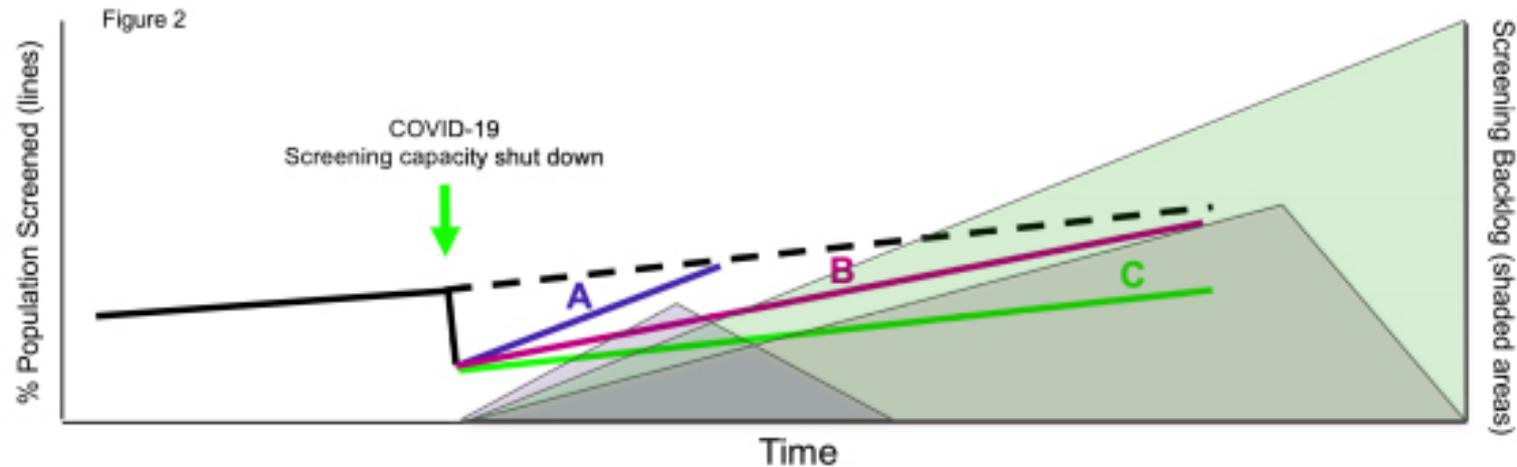
3. Potter et al. ASCO Quality Care Symposium 2020.

Disparities and Healthcare Inequities

- Barriers to using Tele-Health include:
 - Inability to access or navigate technology
 - Inadequate internet connection
 - Lower healthcare literacy
- Minorities, individuals with less education, and those in lower socioeconomic classes are less likely to engage in telemedicine activities

Disparities and Healthcare Inequities

“Prolonged delays in cancer screening will increase cancer in the overall population from pre-COVID-19 trajectories, and elevate the cancer disparity in minority populations.”



	Scenario	Factors affecting scenario	Relative # cancer deaths from baseline trajectory
A	rapid return to screening trajectory within 6-12 months	<ul style="list-style-type: none"> no further COVID-19 shutdowns of clinical capacity unrestricted screening capacity 	~1000 annually
B	delayed return to trajectory over 1-3 years	<ul style="list-style-type: none"> restricted/delayed screening capacity due to COVID-19 testing (preventing some screening services) and social distancing 	1000-5000 annually
C	prolonged return to trajectory over several years	<ul style="list-style-type: none"> prolonged screening capacity restraints due to large backlogs of delayed screening potential public and individual awareness for screening wanes exacerbation of fears for clinic settings due to ongoing pandemic 	≥5000-10,000 annually

Increased Exposure

- Black and Hispanic populations are overrepresented in service-related jobs which have increased their exposure to the virus¹
- Black and Latinx populations tend to live in multigenerational homes or are overrepresented in congregate settings: homeless, detained, and incarcerated^{2,3}

1. U.S. Bureau of Labor Statistics, 2019

2. Pew Research Center, 2018. <https://www.pewresearch.org/fact-tank/2018/04/05/a-record-64-million-americans-live-in-multigenerational-households/>

3. Chicago Urban League, 2020. https://chiul.org/wp-content/uploads/2020/05/ChicagoUrbanLeague_An-Epidemic-of-Inequities_5-12-20.pdf

Increased Susceptibility

COVID-related mortality rates are higher in Black, Hispanic, and Native American populations

- Blacks and Hispanics are 3 times more likely to get infected and 2 times more likely to die
- Black and Hispanic populations have higher rates of underlying comorbid medical conditions

Increased Susceptibility (cont.)

The presence of underlying and comorbid conditions is influenced by:

- Social determinants of health (SDOH): housing, environment, income, etc¹
- Perceived racism can lead to conditions such as diabetes, heart disease, and hypertension
- Lack of positive health behaviors (nutritious diet, exercise, smoking etc)
 - Impact of SDOH makes it difficult to practice healthy behaviors (eg, living in a food desert, avoiding exercise out of fear that you will become a victim of violence, being exposed to 10x more tobacco ads in Black neighborhoods, living in areas with high concentrations of liquor stores)
- Even if we control for chronic conditions, income, obesity etc. there will still be inequities in COVID-19 rates and outcomes²

1. Wu et al. *medRxiv*. 2020;2020.04.05.20054502.

2. Knittel and Ozaltun. *medRxiv*. 2020;2020.06.09.20126805.

Decreased Access to Care

- The states that have the highest rates of Black residents are the states that did not expand Medicaid
 - This is devastating for Black patients who contract COVID-19
- Black patients are less likely to be tested for COVID-19 if they present with a fever and cough than their white counterparts¹

Impact on Individuals, Institutions, and Society

- Moment of crisis for marginalized and minority communities and the institutions that serve them
- The Church of God in Christ (largest Black Pentecostal denomination in United States): up to 30 bishops and prominent clergy died of COVID-19 in a matter of months¹

Healthcare System: What Needs to Change?

- Apply an **equity lens** to work we do in the healthcare system
 - Acknowledge healthcare disparities exist, even in the care that we provide
 - Detect them and develop strategies to mitigate bias and reduce inequities
- Expand access to care
 - Continue to expand Medicaid
 - Support continuation of health coverage (COBRA)
- Better community engagement
 - Need to address long-standing mistrust of the medical community by Black people due to unconscionable racist actions by physicians and researchers (eg, Tuskegee, J. Marion Simms, Henrietta Lacks)
 - We need to partner with communities, rebuild trust, and work towards a shared model of achieving optimal health for all

How to Better Engage Communities

- Ongoing and real-time communication or visits with community organizations, leaders, and residents
- Invite community members to serve on our committees and boards in leadership positions
- Hire from the local community
 - Not “us versus them”
 - Instead, the organization and the healthcare system becomes the community

Case Example 1

Case:

Patient With Metastatic Breast Adenocarcinoma

History of Present Illness

- 49-year-old Black female with *BRCA+*, metastatic triple negative breast cancer and history of PE
- Metastatic disease to the internal mammary node, lungs and pleura
- Lost to follow-up between February and July 2020 due to loss of insurance
- Presented in July 2020 with fever (102.7°F) with productive cough, dyspnea, and myalgias
- Similar presentation 1 month prior when CT chest was negative for a PE and COVID-19 PCR was negative. She was discharged with antibiotics for pneumonia.
- No sick contacts, exposures to COVID-19 or recent travel

Breast Cancer History

- Metastatic Breast Cancer
 - Initially diagnosed in 2013
 - Received paclitaxel, doxorubicin, and cyclophosphamide followed by surgery and adjuvant carboplatin
 - Metastatic disease diagnosed in 2016 when she was found to have an enlarged right internal mammary node, an anterior mediastinal mass, and a left para-aortic node (biopsied and confirmed positive for metastatic disease)
 - 2016- EMBRACA trial: randomized to talazoparib
 - 2017- dinaciclib/pembrolizumab trial
 - 2018- capecitabine
 - 2019- ASCEND trial: randomized to sacituzumab
- Diastolic heart failure diagnosed in 2013
- HTN
- Segmental PE diagnosed in 2017

Case: In the Emergency Department

Vitals:

- T 100°F, BP 82/51 - 98/71 mmHg, Pulse: 106 -> 81 beats per min (s/p IVF), Respiratory rate: 26 -> 18 breaths per min, SpO2 89% on room air improved to 94-95% on 2-3 L nasal cannula

Physical Exam:

- Cardiac: Regular rate and rhythm. Normal S1 and S2. No murmurs, rubs, or gallops. +L port without swelling, fluctuance, erythema
- Pulmonary: Unlabored breathing, +crackles in left lower and mid lung fields. No rhonchi or wheezing.
- Extremities: Warm and well-perfused. No cyanosis, clubbing, or edema

Case: Differential Diagnosis?

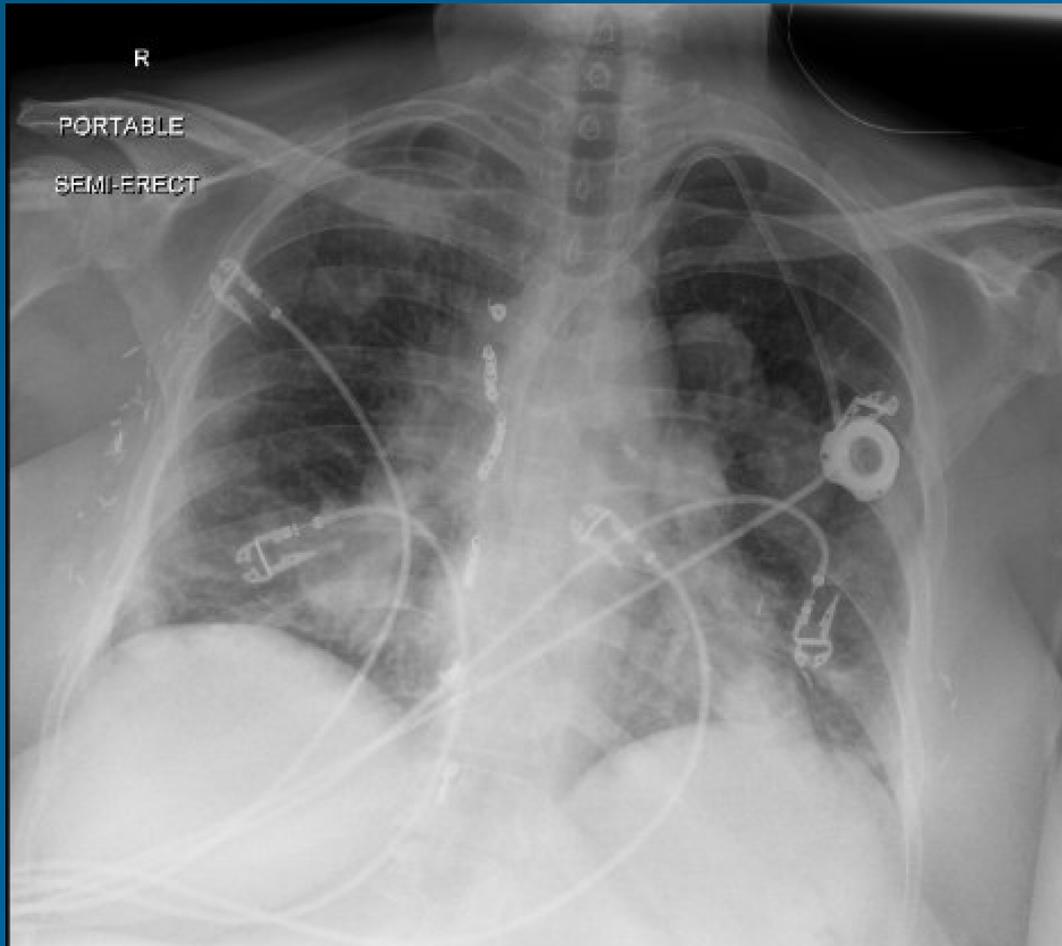
- With this history and presentation, what is the differential diagnosis?
 - a) Disease progression
 - b) Pneumonia / COVID-19
 - c) Pulmonary embolism
 - d) Exacerbation of diastolic heart failure
 - e) More than one of the above
 - f) Unsure

Case: Next Steps?

- What should the work-up include at this point?
 - a) Chest radiograph
 - b) COVID-19 PCR testing
 - c) Computed tomography angiogram/pulmonary embolism protocol
 - d) a + b
 - e) b + c
 - f) All of the above
 - g) Unsure

Case: Key Findings

Chest X-ray



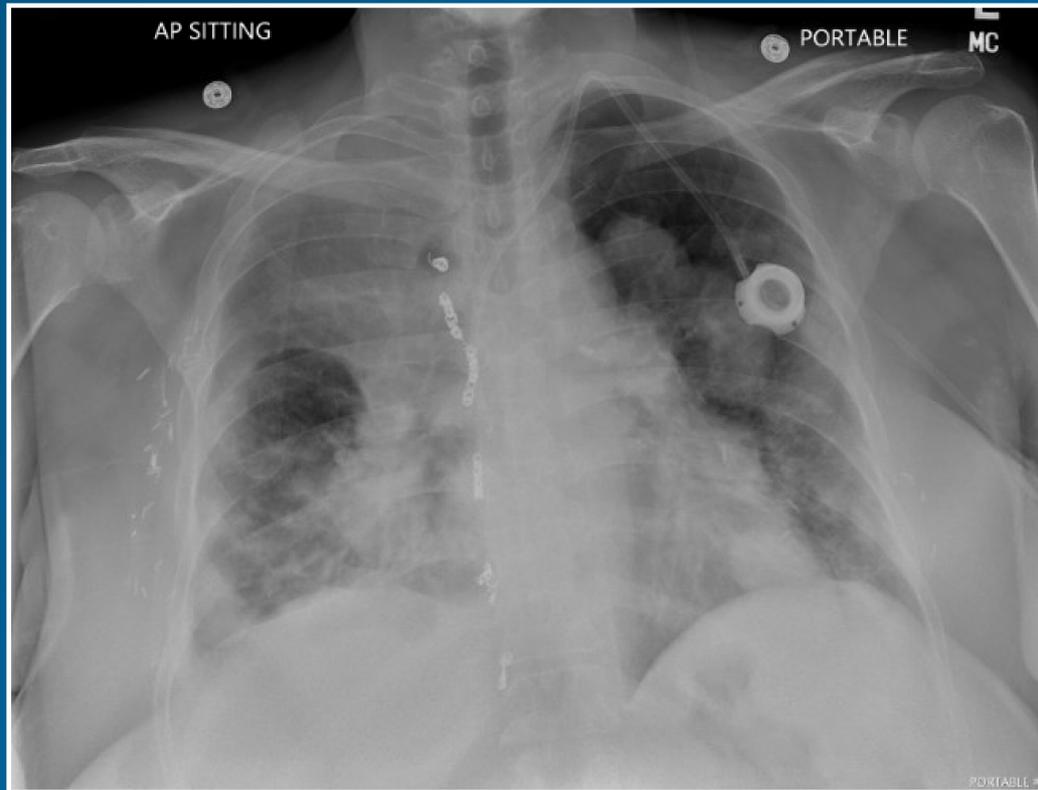
COVID-19 PCR: Positive

Case: Next Steps?

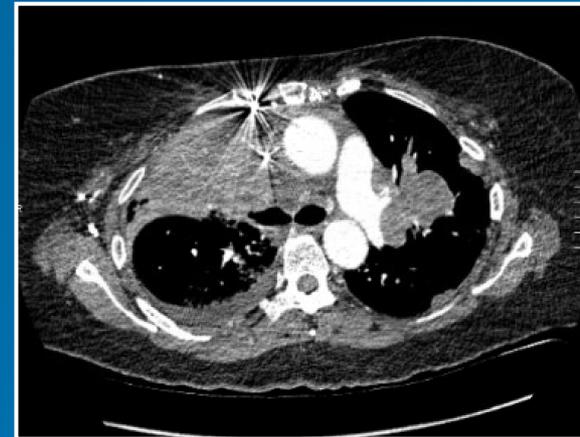
- 10 days after presentation, patient was found to be more tachycardic (P: 120-150 beats per min) with decreasing oxygen saturation on room air (90%) while ambulating
- COVID-19 PCR negative
- Chest radiograph and chest computed tomography scan were obtained

Case: Key Imaging Findings

Chest Radiograph



Chest CT



Case: Additional Care

- Interventional Pulmonology:
 - performed flexible and rigid bronchoscopy with stent placement
- Radiation Oncology:
 - administered 5 fractions of radiation to the right hilar/mediastinal mass
- She was discharged home 21 days after presentation (with medical coverage)

Case: Discontinuation of Isolation?

- Can she be seen safely in the Cancer Center for follow-up?
 - a) Yes, 20 days have passed since symptom onset and she has had no recurrent fevers
 - b) Yes, but full PPE with N95 mask and eye protection needs to be worn by any healthcare worker coming into contact with her
 - c) No, she needs COVID-19 PCR testing to confirm that she no longer has the virus
 - d) No, she needs to be in isolation for 90 days
 - e) Unsure

Case: Plans for Systemic Therapy?

- One month after presentation and 1 week following discharge, she was started on chemotherapy

Case Example 2

70 y/o Man With Dizziness

- Chief complaint: dizziness and palpitations
- Past medical history: atrial fibrillation, obstructive sleep apnea
- Surgical history: appendectomy
- Social history: non-smoker, retired teacher, lives with wife
- Medications: metoprolol, warfarin

History of Present Illness

- Today he reported a brief episode of dizziness
- Pulse was 120 beats per min and remained elevated for an hour, just before arrival in emergency department
- Cancelled last few appointments with primary care provider because of the pandemic
- Out of metoprolol but continues to take warfarin
- Has not had his INR checked in 3 weeks
- Denies any chest pain, shortness of breath, or syncope
- To his knowledge, he has not been exposed to COVID-19

Physical Exam and Emergency Department Course

- Physical Exam

- VS: BP 112/60 mmHg; HR 79 beats per min; RR 14 breaths per min; body temperature 97.9°F
- No acute distress
- Cardiovascular: irregularly regular
- Neuro: normal

- Course:

- Labs: normal complete blood cell count, normal CHEM-7, INR: 2.1
- ECG: Afib, no evidence of acute ischemia

Things to Consider

- Patient desire to limit in-person healthcare contact
- Vulnerable family member
- Transportation access
- Internet access
- Comfort with telehealth technology
- Affordability of medications

Shared Decision Making With Patient and Primary Care Physician

- Transition from warfarin to DOAC, edoxaban
 - Consider financial burden
- In-home INR testing
- Mobile technology assistance
- Home health visits



Lessons Learned From the COVID-19 Pandemic

Changes in the Practice of Oncology

- Communication and transparency are key
- Technology can be adapted quickly
 - Telehealth
 - Digital tools to screen for symptoms
- We can deliver care more efficiently
 - Remote visits with providers, supportive care
 - Clinical trial: remote consenting, mailing of study drugs, fewer in-person visits

Changes in the Practice of Emergency Medicine

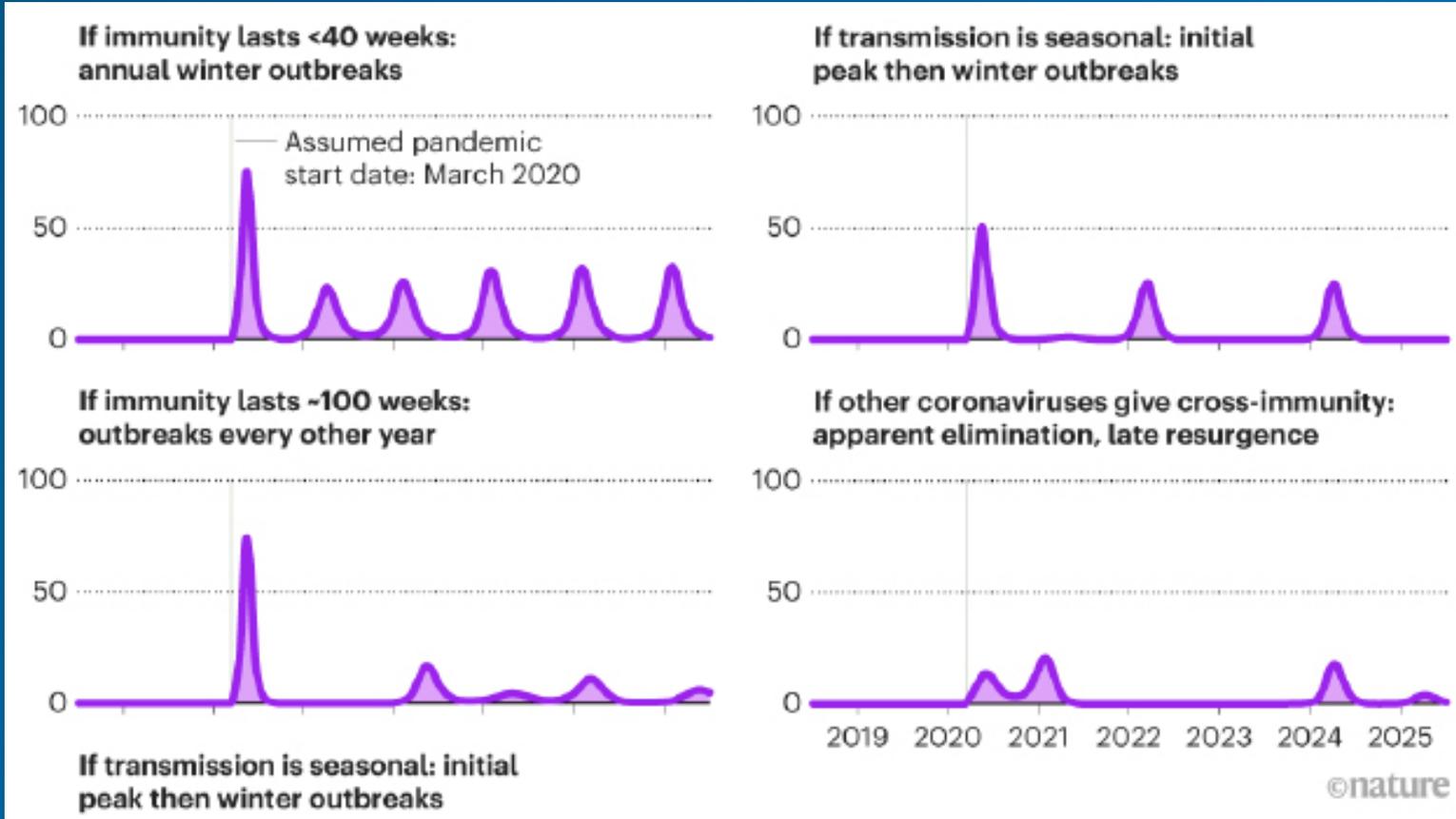
- The emergency department will remain the safety net for anyone who comes through its doors
- Telehealth is here to stay, especially for follow-up after receiving emergency care
- Driven by national attention on health inequities and COVID-19, discussions about healthcare inequities will remain a part of the conversation

Most Commonly Asked Question by Patients:

“When Will This Be Over?”

What Happens Next ...

Prevalence (per 1,000 people)



Everything depends on finding a successful vaccine, and the duration of immunity following infection or vaccination

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