Health Systems and COVID-19

Michael Hochman, MD, MPH
Gehr Family Center for Health Systems Science & Innovation
April 13, 2020
Agenda

- Overview of Health System Approaches via the Keck Medicine of USC Lens
Norbert Gehr and David Goldstein
Protecting Healthcare Workers

- How does SARS-CoV-2 spread?
Protecting Healthcare Workers

- Deep cleaning

- Patient and healthcare worker wear masks
N95s

- For aerosolizing procedures

A bronchoscope is used to view the airways and check for any abnormalities.
High Risk Employees

- 65+
- Chronic conditions
- Pregnancy
Triage System

**NO ILLNESS:** asymptomatic, concern about exposure
- Reassure and Educate

**MILD ILLNESS:** sore throat, rhinorrhea, cough, low grade fever or no fever, no shortness of breath
- Home Care Guidance
- Home isolation
  - Consider next business day telemedicine visit

**MILD - MODERATE ILLNESS:** cough with fever, no shortness of breath
- If co-morbid condition\(^*\), & non-viral etiology on differential, consider send to ETC
  - Referral to ETC for evaluation

**MODERATE - SEVERE ILLNESS:** cough and/or fever AND shortness of breath with **significant** exertion OR other concerning symptoms
- Stable condition
  - Refer to ETC or Direct Admission (if expeditious care can be accommodated)
- Unstable
  - Refer to local ED, or call 911 (if more urgent or intensive level care needed)

**SEVERE ILLNESS:** cough and/or fever, AND shortness of breath with **minimal** exertion (e.g. simple activities) or at rest.
Telemedicine

The Benefit of Telehealth During the Pandemic

Expanded Medicare coverage will cover virtual checkups with your doctor from the safety of your home.

by Hallie Levine, AARP, March 17, 2020 | Comments: 3
Telemedicine

Clinics using Telemedicine

Telemedicine
## Telemedicine

<table>
<thead>
<tr>
<th>Questions</th>
<th>Favorable</th>
<th>Neurtral</th>
<th>Unfavorable</th>
</tr>
</thead>
<tbody>
<tr>
<td>The audio and video quality was appropriate for clear communication</td>
<td>74%</td>
<td>27%</td>
<td>17%</td>
</tr>
<tr>
<td>My needs and expectations for standards of care were met by having this visit online</td>
<td>86%</td>
<td>8%</td>
<td>7%</td>
</tr>
<tr>
<td>Instructions for gaining access to the system and completing my visit were clear and easy to complete</td>
<td>82%</td>
<td>9%</td>
<td>9%</td>
</tr>
<tr>
<td>I would like to use virtual visits for other types of care</td>
<td>77%</td>
<td>16%</td>
<td>7%</td>
</tr>
<tr>
<td>I would recommend virtual visits to friends and family</td>
<td>83%</td>
<td>12%</td>
<td>6%</td>
</tr>
</tbody>
</table>
Testing
Testing

• Therapeutic Purposes:
  - Critically ill patients
• Public Health Purposes:
  - Self-isolation
  - Contact tracing
ICU Care
While there is pressure to fast-track the evaluation of COVID-19 treatment, adherence to rigorous scientific methods to evaluate potential COVID-19 therapies remains just as critical as ever to avoid unintended consequences. Taking “short-cuts” in the evaluation of new therapies may lead to widespread use of ineffective treatments with associated safety concerns.”
Principles

“Some political advocacy groups are promoting “right to try” policies to enable patients to access unapproved and “off-label” therapies for COVID-19 before rigorous evaluation. Prior experience has shown that that practices can cause more harm than good. Our team favors reserving experimental therapies for research settings. “Right to try” policies risks exposing patients to safety concerns without offering them benefits.”
Hydroxychloroquine

“The FDA has authorized an emergency use approval for hydroxychloroquine, however debate remains about whether the benefits outweigh the risks. In one small randomized trial, hydroxychloroquine failed to hasten clinical recovery vs. control patients, however in another hydroxychloroquine led to modestly faster clinical recovery, and lower rates of radiological pneumonia. Neither trial has been peer reviewed.”
Advanced Care Planning

Opinion

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 Pulli, M.D.

Dr. Pulli is the author of "That Good Night: Doctors and Nurses in the Eleventh Hour"

March 27, 2020
Easing of Social Distancing

“As COVID-19 infection and morbidity rates peak in the U.S., experts have begun suggesting validated approaches -- such as “suppress and lift” policies, “targeted approaches” and immunity testing -- as well as criteria for cautiously easing social and economic restrictions without triggering sudden and dramatic recurrences of disease spread that could overwhelm the healthcare system.”
Contact Tracing

LAC DPH Health Advisory:
Notification of Close Contacts; Importance of COVID-19 Death and Case Reporting
April 7, 2020

This message is intended for all healthcare providers in Los Angeles County.
Please distribute as appropriate.

Key Messages

- It is critical for outbreak control that the close contacts of a COVID-19 infected patient be promptly informed of their exposure. When a healthcare provider diagnoses COVID-19 in an inpatient, a skilled nursing facility resident, or in a patient who has died, they must inform the patient’s close contacts about the need to self-quarantine and/or isolate (see Close Contact Notifications below).
- Healthcare providers must report all fatalities related to COVID-19, including out of hospital deaths of presumed cases. Please use the revised LAC DPH COVID-19 death report and case report forms (see Reporting COVID-19 in LA County Residents below).
Digital Contact Tracing

Quantifying SARS-CoV-2 transmission suggests epidemic control with digital contact tracing

Luca Ferretti¹,⁎, Chris Wymant¹,⁎, Michelle Kendall¹, Lele Zhao¹, Anel Nurtay¹, Lucie Abeler-Dörner¹, Michael Parker², David...

See all authors and affiliations

Science 31 Mar 2020:
eabb6936
DOI: 10.1126/science.abb6936
Keck Evidence-Based COVID Resource

Click HERE to review KSOM’s Evidence-Based COVID-19 Summary

keck.usc.edu/coronavirus/
Gehr-Akido-AltaMed COVID Self-Assessment Tool

Coronavirus Self-Assessment Tool

Primary Notice:
Novel Coronavirus, which causes COVID-19, should be taken seriously, but in many cases you can care for yourself at home, without visiting a medical facility.

This tool was developed using the latest recommendations from the CDC, which will help you determine what to do if you think you might have symptoms of COVID-19 or may have been exposed.

START NOW

This tool is provided in partnership with

Altamed
Gehr-Akido-AltaMed COVID Self-Assessment Tool

COVID19 Self-Assessment Tool User Demographics
Gehr-Akido-AltaMed COVID Self-Assessment Tool

COVID19 Self-Assessment Tool User Behavior

Top 3 Recommendations Given

- Seek Immediate Medical Care: 27,523
- Remain at home and avoid contact: 122,795
- No attention necessary: 60,911
Thank you

- Questions?

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