COVID-19 Overview: Current State, Challenges, and Opportunities

This meeting will be recorded and will be available at www.fmda.org/journalclub.php
FMDA Journal Club

June 17, 2020
Diane Sanders-Cepeda, DO, CMD - Presenter
Bernardo J. Reyes, MD, CMD - Featured Guest
Agenda

COVID-19 State of the State

COVID-19 Overview: Current State, Challenges & Opportunities

Open Discussion
COVID-19 Dashboard by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University (JHU)

Total Confirmed: 2,137,604

Confirmed Cases by Country/Region/Sovereignty:
- 923,189 Brazil
- 552,549 Russia
- 354,065 India
- 299,600 United Kingdom
- 244,328 Spain
- 237,500 Italy
- 237,156 Peru
- 195,051 Iran
- 194,347 France
- 188,474 Germany
- 184,449 Chile
- 181,298 Turkey

Active Cases: 1,042,400
Incidence Rate: 188
Case-Fatality Ratio: 4
Testing Rate: 1
Hospitalization Rate: 7

Global Deaths: 116,964
- 116,964 deaths

US State Level Deaths, Recovered:
- 30,909 deaths, 68,938 recovered (New York US)
- 12,792 deaths, 28,872 recovered (New Jersey US)
- 7,664 deaths, recovered (Massachusetts US)
- 6,398 deaths, recovered (Illinois US)
- 6,276 deaths, 59,612 recovered (Pennsylvania US)

Last Updated at 06/01/2020
COVID-19 Overview: Current State, Challenges, and Opportunities

Bernardo J. Reyes, MD, CMD
Assistant Professor of Geriatric Medicine
Associate Program Director,
Internal Medicine Residency
COVID-19 Overview: Current State, Challenges, and Opportunities

Key Learning Points

1. Reported Cases: National and State Trends
2. Nursing Home Data
3. Updates on testing
4. Current Therapies
5. Future Opportunities
COVID-19 Overview: Current State, Challenges, and Opportunities

New Cases: *Florida Gen Population*

*June 16, 2020*

Cases confirmed in Florida residents per day for the past 2 weeks

<table>
<thead>
<tr>
<th>Date</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/2</td>
<td>1,209</td>
</tr>
<tr>
<td>6/3</td>
<td>1,265</td>
</tr>
<tr>
<td>6/4</td>
<td>1,023</td>
</tr>
<tr>
<td>6/5</td>
<td>1,251</td>
</tr>
<tr>
<td>6/6</td>
<td>1,395</td>
</tr>
<tr>
<td>6/7</td>
<td>1,030</td>
</tr>
<tr>
<td>6/8</td>
<td>1,151</td>
</tr>
<tr>
<td>6/9</td>
<td>1,225</td>
</tr>
<tr>
<td>6/10</td>
<td>1,660</td>
</tr>
<tr>
<td>6/11</td>
<td>1,635</td>
</tr>
<tr>
<td>6/12</td>
<td>2,328</td>
</tr>
<tr>
<td>6/13</td>
<td>2,149</td>
</tr>
<tr>
<td>6/14</td>
<td>1,785</td>
</tr>
<tr>
<td>6/15</td>
<td>2,776</td>
</tr>
</tbody>
</table>

Date (12:00 am to 11:59 pm)
COVID-19 Overview: Current State, Challenges, and Opportunities

New Cases: *Florida Gen Population*

*as Jun 6, 2020*

Percent positivity for new cases
The percent of positive results ranged from 3% to 7% over the past 2 weeks and was 7% yesterday.
This percent is the number of people who test positive for the first time divided by all the people tested that day, excluding people who have previously tested positive.

![Bar graph showing percent positivity for new cases from June 2 to June 15, 2020.](chart_image)

Date (12:00 am to 11:59 pm)
### Florida Gen Population as Jun 6, 2020

<table>
<thead>
<tr>
<th>Age group</th>
<th>Cases</th>
<th>Hospitalizations</th>
<th>Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-4 years</td>
<td>985</td>
<td>1%</td>
<td>0%</td>
</tr>
<tr>
<td>5-14 years</td>
<td>2,139</td>
<td>3%</td>
<td>0%</td>
</tr>
<tr>
<td>15-24 years</td>
<td>8,451</td>
<td>11%</td>
<td>2%</td>
</tr>
<tr>
<td>25-34 years</td>
<td>13,321</td>
<td>17%</td>
<td>5%</td>
</tr>
<tr>
<td>35-44 years</td>
<td>12,254</td>
<td>16%</td>
<td>9%</td>
</tr>
<tr>
<td>45-54 years</td>
<td>12,770</td>
<td>16%</td>
<td>13%</td>
</tr>
<tr>
<td>55-64 years</td>
<td>11,532</td>
<td>15%</td>
<td>17%</td>
</tr>
<tr>
<td>65-74 years</td>
<td>7,771</td>
<td>10%</td>
<td>20%</td>
</tr>
<tr>
<td>75-84 years</td>
<td>5,203</td>
<td>7%</td>
<td>19%</td>
</tr>
<tr>
<td>85+ years</td>
<td>3,675</td>
<td>5%</td>
<td>15%</td>
</tr>
<tr>
<td>Unknown</td>
<td>27</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Total</td>
<td>78,128</td>
<td>12,206</td>
<td>2,993</td>
</tr>
</tbody>
</table>
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Florida Nursing Home Data

Jun 6, 2020

COVID in LTC

- COVID Positive Residents (SNF & ALF)
- COVID Positive Staff (SNF & ALF)
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CMS Nursing Home Data as May 31, 2020

Resident Average Deaths per 1,000 Residents

178.3

11.9
Challenges: Asymptomatic Cases

- The outbreak of coronavirus disease 2019 (Covid-19) on the cruise ship *Diamond Princess* led to 712 persons being infected.
- 410 (58%) of these infected persons were asymptomatic at the time of testing.
- 96 of the asymptomatic passengers were transferred to a hospital.
- 11 of 96 developed symptoms in ~4 days.
- *The risks of being pre-symptomatic increased with age.*

Global Symposium: Post-acute Care and Rehabilitation during COVID-19 Pandemic (June 14, 2020)

- Who is at risk (# Beds, Blacks, Population Density, # Cases in the community)
- Atypical presentation of symptoms
- Lower threshold for temp (100.4 F might to high)
- Low O2 saturation (few days before patient becomes pos)
- Change in condition
Challenges: Testing

Viral testing of healthcare personnel (HCP)
- initial testing for all
- weekly testing

Viral testing of residents
- each resident in a nursing home
- consider testing for other causes of respiratory illness
- Contact tracing

Viral testing in response to an outbreak
- Perform expanded viral testing of all residents and HCP
- Continue repeat viral testing of all previously negative residents, generally between every 3 days to 7 days, until the testing identifies no new cases of SARS-CoV-2 infection among residents or HCP for a period of at least 14 days
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Challenges: Testing

- False negative rates 2 to 29%
- Pre-test probability (more challenging)
- Post-test probability very low
Challenges: Infection Control

- Very high index of suspicion and low threshold for isolation for COVID-19
- Operate under the assumption that available testing is inaccurate
- Open up facilities to visitors
- Services such as dining rooms and physical therapy rooms
- Occupancy of short term vs long-term residents
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Challenges: Second Wave (It’s a Marathon, Not a Sprint)

1. What is the role of post-acute care in this pandemic
2. Operate under this ”New Normal”
3. Mental Health
4. Sustainability (financial and logistic issues)
   • PPE
   • Testing
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Challenges: Business Model

- Cost of testing, special COVID units, and PPE
- Perception in the community
- Perception of community partners
- Resources Available
<table>
<thead>
<tr>
<th>Opportunities: Acute Transfers of Long-Term Residents</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Reduction in hospital transfers among long-term residents</td>
</tr>
<tr>
<td>• Implementation of programs to manage change in condition in the facility to avoid transfers (AMDA Clinical Practice Tools, INTERACT)</td>
</tr>
<tr>
<td>• Value-based payment models that meaningfully engage clinicians in both postacute care and long-term nursing home care</td>
</tr>
</tbody>
</table>
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Opportunities: *Telemedicine*

- Using relationship with community partners to have access to necessary expertise
- Limit provider exposure to high risk patients (office visits)
- Better utilization of staff
Opportunities:  *Treatment*

- Remdesivir
- Hydroxychloroquine
- Dexamethasone
Opportunities: Advanced Care Planning

- Many educational and documentation tools are available
  - Using evidence on prognosis (e.g. www.ePrognosis.com) and simple language descriptions of risks and benefits, such as those available in the INTERACT program are helpful
  - Being clear about the limited meaning of “DNR” is also helpful
  - COVID-19 specific tools are available
    - https://respectingchoices.org/covid-19-resources/
    - https://www.vitaltalk.org/guides/covid-19-communication-skills/
    - https://www.capc.org/toolkits/covid-19-response-resources/

- Documenting and communicating discussions and decisions is critical so that hospital transfers and other interventions are either implemented or withheld based on the patient/resident and family preferences
- Be prepared for patients/residents dying in the facility
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Questions?
Comments?
Suggestions?
Open Discussion
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