An Update on COVID-19
(Novel Coronavirus)

Presented by:
Kenneth Bird, MD MPH
Interim County Health Officer
Merced County Department of Public Health
Tuesday, March 31, 2020
COVID-19 Numbers March 10, 2020 vs March 30, 2020

<table>
<thead>
<tr>
<th></th>
<th>Cases</th>
<th>Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>March 10</td>
<td>March 30</td>
</tr>
<tr>
<td>Global</td>
<td>117,734</td>
<td>741,030</td>
</tr>
<tr>
<td>United States*</td>
<td>804</td>
<td>145,532</td>
</tr>
<tr>
<td>California</td>
<td>143</td>
<td>6,416</td>
</tr>
<tr>
<td>Merced</td>
<td>0</td>
<td>10</td>
</tr>
</tbody>
</table>

*The US surpassed Italy for the highest number of cases in the world Thursday, March 26th*
Merced County Case Breakdown

- 10 cases
- 50% male, 50% female
- Age: Range from 28-93

Geographical Distribution of Merced County Cases

Age Distribution of Merced County Cases

<table>
<thead>
<tr>
<th>Exposure Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Out of County/Travel</td>
<td>8</td>
</tr>
<tr>
<td>Community Spread</td>
<td>1</td>
</tr>
<tr>
<td>Under Investigation</td>
<td>1</td>
</tr>
</tbody>
</table>
Infection and Death Rate Curves

Confirmed cases for selected countries including China
Horizontal axis shows the number of days since the case count exceeded 100 in each country

Deaths for selected countries including China
Horizontal axis shows the number of days since the case count exceeded 100 in each country

Source: Johns Hopkins University CSSE
The Prediction

• Over the next months well over half of us will be infected
• A large percentage of those infected won’t realize it
• A significant percentage of those that have symptoms will have symptoms severe enough to require hospitalization
• Many of those hospitalized will require extensive hospital resources in equipment and health care personnel
• Some of those individuals will die despite these efforts
Goals of Community Mitigation for Pandemic Influenza

From Containment to Mitigation

**Containment strategies:** Widespread testing, aggressive isolation of cases and quarantine of contacts, coordination between facilities

**Mitigation strategies:** business and school closure, stay at home orders, targeted testing
Merced County’s Response to COVID-19

- As of Friday, March 13, 2020, proclaimed a local and public health emergency in order to help address the outbreak.
- The Board of Supervisors ratified those actions during a March 16 special meeting.
- On March 16, issued Health Officer Order to close visitation to Long Term Care Facilities and Hospitals.
- On March 19, Merced County Schools Closed.
- On March 20, Merced County’s Health Officer issued an Order directing County residents to remain in their places of residence except to perform or receive essential services (following March 19 Governor Executive Order).
Where these Measures have Failed

Change in Average Mobility (Based on Distance Traveled) - Merced, CA

*Based on GPS data

Best: 38% reduction

https://www.unacast.com/covid19/social-distancing-scoreboard
Surge Preparation

- Assuming only 20% reduction in social contact, at peak for Merced County (June 3\textsuperscript{rd}):
  - 1,018 hospital beds
  - 389 ICU beds
  - 286 ventilators

- 40% reduction in social contact at peak (June 15\textsuperscript{th}):
  - 337 hospital beds
  - 124 ICU beds
  - 89 ventilators

- Less social distancing will mean a higher peak, sooner

Modeled using the Penn Medicine Hospital Impact Model
Local modeling performed by Sidra Goldman-Mellor, Ph.D., M.P.H., Assistant Professor of Public Health, UC Merced
Mobile Specimen Collection Site

• Merced County is offering testing on the east and west sides of the county for individuals displaying symptoms of COVID-19.

• Testing is done by appointment only, with a medical providers referral.

• Priority will be given based on severity of symptoms, vulnerable and high-risk populations, and exposure history form contact or travel.
Merced County Communications

• Merced County established a call center to answer COVID-19 related questions from the community.
• Human Services Agency is staffing the call center Monday – Friday 8:00 am – 5:00 pm.
• Average calls per day: 30
• Available in Spanish
Merced County Public Information Outreach

- COVID-19 Website at [www.countyofmerced.com/coronavirus](http://www.countyofmerced.com/coronavirus)
- Increased Social Media outreach on Facebook.
- Instagram created by MCDPH on 3/24/20.
- Public information is also being offered, on the various platforms
- Materials available in Hmong and Spanish

MCDPH Facebook Statistics as of 3/27/2020

- Total Followers
- Total Page Likes
In It Together

• Stay at home unless you must go out for essential services
• Maintain social distancing
• **STAY AT HOME IF YOU ARE ILL – Call** your provider ahead of time if you think you need medical evaluation
• Respiratory Etiquette
• Wash Hands Frequently
• Clean Environmental Surfaces
• Avoid touching eyes, nose, mouth with unwashed hands
• Avoid shaking hands
• Evaluate travel plans