COVID-19 in New Mexico: Epidemiologic Update
A NMDOH, Presbyterian, LANL, and SNL Partnership
May 26, 2020
Prevalence: COVID-19 cases per 100,000 by U.S. states

As of May 20, 2020
Prevalence: COVID-19 cases per 100,000 by U.S. states

As of May 20, 2020

Source: Cases, Johns Hopkins University Coronavirus Resource Center. Population estimates, National Center for Health Statistics, CDC.
Prevalence Rate: Number of COVID-19 cases per 100,000 population

May 18, 2020

- Northwest: 1473.6
- Northeast: 74.7
- Metro: 195.4
- Southeast: 47.1
- Southwest: 122.4
- New Mexico: 282.5

May 25, 2020

- Northwest: 1714.3
- Northeast: 80.8
- Metro: 215.8
- Southeast: 57.4
- Southwest: 182.8
- New Mexico: 330.3

Prevalence: COVID-19 cases per 100,000 by NM county

COVID-19 Prevalence
New Mexico Counties
Rate per 100,000 population
May 25, 2020

Investing for tomorrow, delivering today.
Prevalence: COVID-19 cases per 100,000 by NM county

As of May 25, 2020
Projected doubling time

Projected Doubling Time Based on Date of Test Specimen Collection and Cumulative Average Rate of Increase.
Source: Infectious Disease Epidemiology Bureau, Epidemiology and Response Division 5.25.2020, New Mexico Department of Health.
Hospitalization Rate: Number of COVID-19 cases per 100,000 population

COVID-19 hospitalizations and ventilator use

As of May 22, 2020

As of May 22, 2020

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DEPARTMENT OF
HEALTH

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COVID-19 hospitalizations by age group

<table>
<thead>
<tr>
<th>Age group (years)</th>
<th># Hospitalized cases (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1</td>
<td>1 (0.10)</td>
</tr>
<tr>
<td>1-4</td>
<td>4 (0.38)</td>
</tr>
<tr>
<td>5-14</td>
<td>1 (0.1)</td>
</tr>
<tr>
<td>15-24</td>
<td>28 (2.7)</td>
</tr>
<tr>
<td>25-34</td>
<td>81 (7.8)</td>
</tr>
<tr>
<td>35-44</td>
<td>149 (14.3)</td>
</tr>
<tr>
<td>45-54</td>
<td>165 (15.9)</td>
</tr>
<tr>
<td>55-64</td>
<td>250 (24.1)</td>
</tr>
<tr>
<td>65-74</td>
<td>178 (17.1)</td>
</tr>
<tr>
<td>75-84</td>
<td>102 (9.8)</td>
</tr>
<tr>
<td>85+</td>
<td>80 (7.7)</td>
</tr>
<tr>
<td>All ages</td>
<td>1039</td>
</tr>
</tbody>
</table>
COVID-19 age-specific hospitalization rates per 100,000 population

Source: NM Indicator-Based Information System (IBIS) was used for 2018 population estimates for each age group
### COVID-19 age-adjusted hospitalization rate by race/ethnicity per 100,000 population

<table>
<thead>
<tr>
<th>Race/ethnicity</th>
<th>Age-adjusted rate per 100,000 population</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Indian or Alaska Native</td>
<td>409.6</td>
</tr>
<tr>
<td>Asian</td>
<td>14.3</td>
</tr>
<tr>
<td>Black or African American</td>
<td>27.4</td>
</tr>
<tr>
<td>Hispanic or Latino</td>
<td>15.6</td>
</tr>
<tr>
<td>White</td>
<td>10.2</td>
</tr>
</tbody>
</table>

Note:
8 hospitalized cases excluded due to missing race information
1 hospitalized case was excluded because it was “Other Race” and there is no population estimate for “Other Race” in NM-IBIS
Mortality Rate: Number of COVID-19 deaths per 100,000 population

Rates have been age-adjusted to the U.S. 2000 standard population.
Crude death rate: COVID-19 deaths per 100,000 by U.S. states

Source: Deaths, Johns Hopkins University Coronavirus Resource Center. Population estimates, National Center for Health Statistics, CDC.

As of May 20, 2020
Number of COVID-19 crude mortality rate by age group

As of May 22, 2020
Number of COVID-19 age-adjusted mortality rate by race/ethnicity

As of May 22, 2020

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Rate per 100,000 population</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIAN</td>
<td>99.1</td>
</tr>
<tr>
<td>Asian/NHOPI</td>
<td>3.3</td>
</tr>
<tr>
<td>Black/AfAm</td>
<td>8.6</td>
</tr>
<tr>
<td>Hispanic</td>
<td>5.1</td>
</tr>
<tr>
<td>White</td>
<td>6.0</td>
</tr>
</tbody>
</table>
Case Fatality Rate: Percentage of COVID-19 cases resulting in death

Rates have been age-adjusted to U.S. COVID-19 cases.
Source: Bureau of Vital Records and Health Statistics and Infectious Disease Epidemiology Bureau, Epidemiology and Response Division, reporting through 5.24.2020, New Mexico Department of Health.
Case fatality rate: Percentage of COVID-19 cases resulting in death by U.S. states

As of May 20, 2020

Source: Cases and Deaths, Johns Hopkins University Coronavirus Resource Center.
Key points

- COVID-19 prevalence continues to increase across all regions in NM
  - 22nd highest prevalence in the U.S.
  - AI/AN have highest burden of disease across all health regions except the SE where Hispanic or Latinos are most affected
  - Highest prevalence rates in Sandoval, Guadalupe, Cibola, San Juan, and McKinley counties
  - Median age of cases across all race/ethnicity groups is below 50 years old except Whites who tend to be older (median age: 60 years old)
  - Doubling times for all regions continue to increase including the SW region

- Hospitalization rates continue to increase across all regions with the highest rates in NW, Metro, and SW
  - Ventilator use remains at ~25-30% of hospitalized cases
  - Highest rates in McKinley, San Juan, Socorro, and Cibola counties (>50 cases/100,000)
  - The elderly and AI/AN groups continue to have the highest rates of hospitalizations
  - Hospitalized cases who self-identify as White tend to be older (median age: 70 years old)

- Mortality rates and case-fatality rates (CFRs) are highest in the NW region followed by Metro Region
  - 20th highest mortality rate in the U.S.
    - Highest in 85+ age group and AI/AN population
  - Age at death is higher in Whites than other race/ethnicity groups
  - NM CFR is equal to U.S. CFR after age-adjustment
    - NW and Metro regions have CFRs that are higher than the U.S. rate
    - CFRs in SE and SW have decreased since last week
    - 24th highest CFR in the U.S. (not age-adjusted)
COVID-19 in New Mexico: modeling update

As of May 26, 2020
Epidemiology & Response Division
The effective rate of transmission for the state has decreased slightly since last week.
The Southwest region now has the highest rate of transmission at 1.24.

Northeast  
*R*_effective 1.07 ↓

Central  
*R*_effective 1.06 ↓

Southwest  
*R*_effective 1.24 ↑

Southeast  
*R*_effective 1.16 ↓

Key

- **Low Level Endemic**  
  1-1.1
- **Approaching Low Level Endemic**  
  1.11-1.15
- **Requiring further mitigation** >1.15

As of May 19, 2020
Southwest is the only region where percent positive tests have increased during May.
New Mexico COVID-19 Cases by Date of Specimen Collection - 5/26/20

Positive samples collected during this time may not yet be reported.
New Mexico COVID-19 Cases by Date of Illness Onset - 5/26/20

Cases with illness onset during this time may not yet be reported.
Case Count by Week of New Mexico Cases - 5/21/20

Cases during this time may not yet be reported.
Supplementary Slide
# Modeling Assumptions

<table>
<thead>
<tr>
<th>Variable</th>
<th>Measured Value</th>
<th>Value as of 5.18.20</th>
</tr>
</thead>
<tbody>
<tr>
<td>R_Effective</td>
<td>Actual Measured Daily Value by key county</td>
<td>R_eff=1.10</td>
</tr>
<tr>
<td>Positive Test Multiplier</td>
<td>Calculated by LANL</td>
<td>4.6</td>
</tr>
<tr>
<td>Hospitalization and Mortality</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 0.4%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU 0.3%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vent Rate 66.3% of ICU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crude Case Fatality Rate 4.6%</td>
</tr>
<tr>
<td>Length of Stay</td>
<td>Actual rolling value / estimated number of total infected</td>
<td>Medical 5 days</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU 14 days</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ICU on Vent 14 days</td>
</tr>
</tbody>
</table>