MEMORANDUM

Date: April 20, 2022

To: The Honorable Chair and Members
   Pima County Board of Supervisors
From: Jan Lesher
   County Administrator

Re: Case Investigation and Contact Tracing Contractor Report

Case investigations and contact tracing have been a critical component of the pandemic response in Pima County. The Health Department staff has been augmented since July 2020 in this complicated work by our contractor Maximus. This contractor was selected through a competitive procurement process and its activities have been funded primarily using a variety of pandemic related federal funding sources and approved by the Board of Supervisors.

Attached please find a Community Impact Report prepared by our contractor and submitted on March 8, 2022. This report summarizes contractor performed case investigation and contact tracing in Pima County, and provides a brief description, the range of resources and services that families impacted by COVID-19 were connected with as part of this process.

JKL/dym

Attachment

c: Carmine DeBonis, Jr., Deputy County Administrator for Public Works
   Francisco Garcia, MD, MPH, Deputy County Administrator & Chief Medical Officer, Health and Community Services
   Terry Cullen, MD, MS, Public Health Director, Health Department
Date: April 18, 2022

To: Jan Lesher
    County Administrator

From: Theresa Cullen, MD, MS
    Health Department Director

Re: Community Impact Statement – Case Investigation and Contact Tracing

Epidemiological case investigations and contact tracing is part of the core mission of Public Health. This work allows public health to identify, respond to and mitigate disease outbreaks. Pima County Health Department (PCHD) committed to a robust case investigation/contact tracing program during the COVID-19 pandemic starting in July 2020. To support the ongoing and core epidemiological work of PCHD, the County issued a competitive Request for Proposals and in August 2020 awarded a contract to Maximus Health Services. The service expense has been funded by the American Rescue Plan, Coronavirus Aid Relief Economic Security Act, Epidemiology and Laboratory Capacity and the Health Fund.

We are providing the annual Maximus Contact Tracing community impact report as of March 8, 2022. This Community Impact Statement shares the results of case investigation/contact tracing in Pima County, including number of people contacted, referrals to care resource coordinators, and support for cases affiliated with school settings. PCHD remains committed to reducing potential impact from the pandemic and working to make our community as safe as possible during these times.

Attachment

Concur:

Francisco Garcia, Deputy County Administrator

Date 18 Apr 2022
COMMUNITY IMPACT AND OUTCOME REPORT

Pima County Health Department

Dated: 03.08.2022
Executive Summary

1. Contact tracing saves lives in Pima County
2. Contract tracing reduces costs
3. Contract tracing empowers citizens through education
4. Contact Center delivers comprehensive Public Health Services

Contact tracing is an essential component of the toolbox for containing a disease outbreak. This is especially true for a disease such as COVID-19, which can be spread by people who have no symptoms.

Effective COVID Contact Tracing Program in Pima

- Identify priority and high-risk close contacts
- Ensure resources are available for testing, vaccination and medical evaluation
- Conduct timely notification of priority contacts in time to prevent further transmission
- Offer resources to support effective and equitable response activities
- Provide health education and disease management guidance
- Ensure successful quarantine or isolation of contacts during the potential timeframe when they may be infectious

"COVID is scary on its own, and people are relieved when they realize they are not going to have to go through it completely alone. There is something very rewarding knowing that we are contributing to the health, safety, and recovery of our community."

—Uli, Field Investigator, Pima County Resident

Source: COVID-19: The CIDRAP Viewpoint June 2020
Partnering with Pima County to “Slow the Spread”

- **71,658** Cases Investigated [155,618 Attempted]
- **91,907** Contacts Traced [141,909 Attempted]
- **808** Field Investigations Completed [10,813 Attempted]
- **16,220** Referrals to Care Resource Coordinators
- **78,899** School Cases/Contacts Supported

“Just got off the phone with a case to complete a courtesy call. The case wanted to let you know she was very impressed with all the services PCHD is offering to families and greatly appreciates it. She mentioned she remember growing up as a teen mom and not having any services offered or available for her or her child. Although she didn't need any resources, she was happy with all that we are doing.

Destiny Grigsby MSW, DSW-C
## Additional Support Areas

<table>
<thead>
<tr>
<th>Service</th>
<th>Cases</th>
<th>Contacts</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Provided MAB Information</strong></td>
<td>2,877 (began 03/18/2021)</td>
<td>1,701 (began 08/25/2021)</td>
<td>4,578</td>
</tr>
<tr>
<td><strong>Provided Vaccination Education</strong></td>
<td>9,800 (began 03/04/2021)</td>
<td>9,858 (began 03/04/2021)</td>
<td>19,658</td>
</tr>
<tr>
<td><strong>Provided CRC and Behavioral Health Referrals</strong></td>
<td>10,539</td>
<td>5,734</td>
<td>16,273</td>
</tr>
<tr>
<td></td>
<td>Behavioral Health (Cases only): 130 (Began 01/13/2022)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Testing Referrals/Provided Testing Information</strong></td>
<td></td>
<td>Total: 10,287 (Phone, Web)</td>
<td></td>
</tr>
</tbody>
</table>
Distinctive Populations require prioritized efforts

**Casa Alitas**
188 Cases flagged in Qualtrics as part of Casa Alitas population. Focused outreach, disease investigation, education and field visits

**Schools**
Cases investigated: 17,239
Contacts traced: 61,660
Total disease investigations: 78,899

**Outbreaks in Schools**
2021 – 96 outbreaks verified and evaluated. 54 outbreak modules created in MEDSIS System
2022 – 160 outbreaks triaged
• 121 outbreaks evaluated and verified
• 39 outbreaks evaluated and ruled out
• 78 outbreak modules created in MEDSIS System

* Alitas | Agencies & Ministries | Catholic Community Services of Southern AZ (ccs-soaz.org)
In comparison: other counties and AZ state

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Population (2020)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pima County</td>
<td>1,058,000</td>
</tr>
<tr>
<td>Maricopa County</td>
<td>4,568,420</td>
</tr>
<tr>
<td>Yuma County</td>
<td>215,962</td>
</tr>
</tbody>
</table>

As of March 8, 2022***

<table>
<thead>
<tr>
<th></th>
<th>Total Cases</th>
<th>Total Deaths</th>
<th>Rate of cases per 100,000</th>
<th>Rate of fatalities per 100,000</th>
<th>Total percent positive*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arizona</td>
<td>1,980,769</td>
<td>27,708 (1.39%)</td>
<td>27,552.7</td>
<td>385.4</td>
<td>12.4%</td>
</tr>
<tr>
<td>Pima County</td>
<td>250,137</td>
<td>3,623 (1.44%)</td>
<td>23,944</td>
<td>346.8</td>
<td>10.2%</td>
</tr>
<tr>
<td>Maricopa</td>
<td>1,248,818</td>
<td>15,625 (1.25%)</td>
<td>28,591.2</td>
<td>357.7</td>
<td>12.8%</td>
</tr>
<tr>
<td>Yuma</td>
<td>62,171</td>
<td>1,116 (1.79%)</td>
<td>27,035</td>
<td>485.3</td>
<td>17.3%</td>
</tr>
</tbody>
</table>

* Percentage positive is defined as number of people with positive test results, out of all people with COVID-19 testing
** Diagnostic Tests include PCR and antigen testing
Slow the Spread of the Disease – where we are?
Level of Transmission: Current Status*

<table>
<thead>
<tr>
<th>Level of Community Transmission</th>
<th>7-Day Metrics* - March 8, 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cases</td>
<td>459</td>
</tr>
<tr>
<td>Cases Rate per 100k</td>
<td>43.83</td>
</tr>
<tr>
<td>% Positivity</td>
<td>6.12%</td>
</tr>
<tr>
<td>Death</td>
<td>0</td>
</tr>
<tr>
<td>New Hospital Admissions (confirmed cases)</td>
<td>118</td>
</tr>
</tbody>
</table>

Contact tracing is an essential component of the toolbox for containing a disease outbreak. This is especially true for a disease such as COVID-19, which can be spread by people who have no symptoms.


*CDC COVID Data Tracker: Data as of 3.8.2022
Contact tracing is an essential component of the toolbox for containing a disease outbreak. This is especially true for a disease such as COVID-19, which can be spread by people who have no symptoms.

Making the difference- working together to succeed!

“I had the pleasure of working with a School RN at Blenman Elementary School for an outbreak they had. We had a lot to go through and gather a lot of information and she was exceptional at working with me to get all the information needed for the outbreak evaluation. She really showed compassion and you could tell how much she really cares for the staff and students there. She was thankful that we do what we do and reach out to the nurses and schools. She said that we have always been nice and caring when we must call them and understand how busy they get at times, and still, we are so patient.” - From Lisa Bratcher (K12 Outbreak Response Staff)

“I had the recent pleasure of working with the school health staff at Tanque Elementary School to help assess a potential classroom outbreak. The staff was wonderful to work with. They were very concerned about their small school, and they expressed many times in our interactions how grateful they were that we had reached out to provide guidance in navigating the situation. It was a great experience to be able to collaborate with the school and assist with their mitigation efforts.” - From Allison Cornell (K12 Outbreak Response Staff)

We have 56 staff who are Pima County residents including Supervisors, CI/CTs, Liaisons
Estimated Cost of COVID-19 Disease

- 1 in 5 Proportion of people who contract Covid-19 and get seriously ill
- 9 days Median length of hospitalization
- $51,000 – $78,000 Average cost of hospitalization

- Inpatient COVID-19 hospitalizations could cost the U.S. healthcare system $9.6 – $16.9 billion in 2020
- Commercial payers are expected to bear the majority of the costs: $5.6 – $9.9 billion (Avalere)
- Medicare will pay the second largest portion: $3.5 – $6.2 billion (includes treatment of uninsured patients)
- Federal and state Medicaid payments: $440 – $780 million
Sophia and her family…a case study

Sophia is a 22-year-old resident of Tucson

She did not social distance prior to testing and attended family gathering

COVID positive, lost 3 weeks of work

Exposed mother which resulted in her hospitalization and intubation for three weeks; discharged to home

Exposed grandfather resulting 10-day ICU hospital admission and death

Exposed aunt resulting in 22-day hospital admission and death

Cost Estimates

Sophia’s lost wages: $1,930 – $2,000

Mother’s hospitalization: $210,000 – $300,000

Grandfather’s death: $100,000 – 120,000 (hospitalization) & $9,000 (funeral)

Aunt’s death: $220,000 – $250,000 (hospitalization) & $9,000 (funeral)
In summary

1. Contact tracing saves lives in Pima County
2. Contract tracing reduces costs
3. Contract tracing empowers citizens through education
4. Contact Center delivers comprehensive Public Health Services

Contact tracing is critical to the physical and economic wellbeing of Pima County.