MEMORANDUM

Date: August 13, 2021

To: The Honorable Chair and Members
Pima County Board of Supervisors

From: C.H. Huckelberry
County Administrator

Re: COVID-19 Update for the August 16, 2021 Board of Supervisors Meeting

Pediatric Population Update

COVID-19 pediatric (0 to 19 years) cases continue to grow in Pima County from 19,863 in our prior report to 20,261 this week. COVID-19 cases have occurred in the population of 0 to 19 year olds in Pima County. This represents just over 16.6 percent cases of COVID-19 since the beginning of the pandemic. In terms of hospitalizations of COVID-19 pediatric age patients at these appear to fluctuate daily from 4 to 15. No pediatric COVID-19 deaths have been reported.

The Health Department works collaboratively with schools and districts to quickly identify cases occurring in these environments. From July 20 of this year until today, 489 cases across 141 public schools have been reported to the Health Department. (Attachment 1) As of today, cases are being reported by 118 schools across 12 public school districts, and an additional 26 charter or private schools. There have been 25 school outbreaks (using the CDC definition) and these have resulted in 12 separate classroom closures. To be clear this is now a system-wide issue impacting all our school districts, charters, and private schools.

Students represent 84 percent of the reported cases, while teachers and staff represent the remaining 16 percent. Non-vaccine age-eligible cases among children up to 11 years of age represent 44.8 percent (219) of school reported cases, while the 12 to 19 year age group makes up the 42.5 percent (208) of school reported cases. Staff and teachers make up the remaining 12.7 percent.

Hospital Capacity

Our Health Department monitors hospital capacity on a daily basis, by calling each facility within the jurisdiction to assess current volumes in the inpatient medical surgical units and in intensive care. This voluntary self-reporting by our partner hospitals has been invaluable for the regional management of precious hospital resources.

The current surge is beginning to have a significant impact on hospital capacity. Hospitals across Pima County are reporting daily increases in inpatient COVID-19 admissions, from 50 on July 1 (this year) to 152 on August 12. As a reminder, COVID-19 positive inpatients peaked at 760 on January 7 of this year.
COVID-19 ICU bed usage reached its peak of 343 on January 11, 2021, reaching its lowest occupancy of 14 on May 21 and leveling off in the low twenties. This last week, COVID-19 ICU patients have ranged from have 37 to 42 per day, taking up approximately 25 percent of the total ICU capacity in Pima County. These figures would not be alarming, except for the fact that even prior to current surge (and currently), ICUs across the system were and are currently caring for a higher than normal volume of non-COVID-19 patients.

Given the constrained ICU capacity, driven by increased patient volume compounded by staffing shortages, requests for federal staffing assistance and support are being prepared and processed for our hospital partners.

**Vaccine Coverage**

Vaccination in Pima County continues to be a relative bright spot. At this point we continue to have higher vaccination coverage rates compared to the rest of the state and the nation. As documented by the CDC COVID-19 Data Tracker, 645,767 Pima County residents have received at least a single dose of vaccine, and 559,922 have been fully vaccinated. First dose coverage now exceeds 60 percent across all age groups, except for 10 to 14 (27 percent), 15 to 19 (50 percent), and 20 to 29 (48 percent). (Attachment 2)

**COVID-19 Infections Trends by Week Since June 6**

Attachment 3 is part of a series of weekly maps that have been produced since the beginning of the pandemic. These maps represent reported cases by week (unadjusted) since June 6 of this year. The latest week of August 1 to 7 reports 1,309 cases. The highest in the last nine weeks. Looking at this series of maps you can see obvious weekly infection increases with the most dramatic increases coming in the last four weeks.

**Conclusion**

The data we provide today would support the reinstatement of the emergency declaration. The purpose would not be to enact more restrictions, since this ability has been substantially curtailed by the actions of the Governor and state legislature. Instead such a declaration would be largely symbolic, serving to draw attention to the need for vaccination among the remaining population and to re-emphasize the need for universal mask use in public indoor settings.

CHH/dym

Attachments

c: Jan Lesher, Chief Deputy County Administrator
   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
Detailed Daily School Data – 08/13/2021
Data reflects all entries as of 9:15am
Total COVID19 Cases (n=489) in Schools by Case Date

A Healthy Pima County
Every one. Every where. Every day.
Percent of Total Cases in Schools by Staff (n=77) and Students (n=412)

Staff Cases: 16%
Student Cases: 84%
COVID-19 Cases in Schools (n=489) by Staff and Students by Case Date

- **Staff Cases**
- **Student Cases**

- Case dates from 7/20/2021 to 8/13/2021

![Bar chart showing COVID-19 cases in schools by staff and students by case date.

A Healthy Pima County

Every one. Every where. Every day.
Total COVID-19 Cases (n=489) by School District

- Amphitheater: 48
- Catalina Foothills: 5
- Charter: 6
- Continental: 4
- Flowing Wells: 4
- Marana: 84
- Pima/TED: 8
- Private: 20
- Sahuarita: 17
- Sunnyside: 35
- Tanque Verde: 3
- Tucson USD: 76
- Vail: 125

A Healthy Pima County
Every one. Every where. Every day.
Total COVID19 Cases (n=489) by School
Total COVID19 Cases (n=489) by School
Total COVID-19 Cases (n=489) in Schools by Age Group

- 0-11y: 219 cases
- 12-19y: 208 cases
- 20-44y: 39 cases
- 45-54y: 17 cases
- 55+y: 6 cases
Total doses administered to Pima County residents: 1,144,210*

As of August 10, 2021, a total of 616,519 (59.02%) Pima County residents have received their first dose of a COVID-19 vaccine. A total of 578,502 residents were vaccinated by a local provider in Pima County ("inside") and 38,017 residents were vaccinated by a provider outside of the county ("outside"). Note, dates that don’t appear in graphs had zero vaccinations. *Total number of vaccine doses administered to Pima County residents by all vaccine providers.

Pima County First Dose Vaccinations by Date and by Location of Service

First Time Vaccinated Residents by Gender and Age Group

<table>
<thead>
<tr>
<th>Residents vaccinated</th>
<th>Number vaccinated</th>
<th>% of residents vaccinated</th>
<th>2019 pop. size</th>
<th>% of total pop.</th>
<th>% of age group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>334,426</td>
<td>54%</td>
<td>530,457</td>
<td>51%</td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>280,710</td>
<td>46%</td>
<td>514,218</td>
<td>49%</td>
<td></td>
</tr>
<tr>
<td>Unknown</td>
<td>1,383</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Age group</th>
<th>Number vaccinated</th>
<th>% of residents vaccinated</th>
<th>2019 pop. size</th>
<th>% of total pop.</th>
<th>% of age group</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-9</td>
<td>0</td>
<td>0%</td>
<td>118,576</td>
<td>11%</td>
<td>0%</td>
</tr>
<tr>
<td>10-14</td>
<td>17,095</td>
<td>3%</td>
<td>62,299</td>
<td>6%</td>
<td>27%</td>
</tr>
<tr>
<td>15-19</td>
<td>34,967</td>
<td>6%</td>
<td>69,243</td>
<td>7%</td>
<td>50%</td>
</tr>
<tr>
<td>20-29</td>
<td>79,236</td>
<td>13%</td>
<td>164,060</td>
<td>16%</td>
<td>48%</td>
</tr>
<tr>
<td>30-39</td>
<td>77,965</td>
<td>13%</td>
<td>122,736</td>
<td>12%</td>
<td>64%</td>
</tr>
<tr>
<td>40-49</td>
<td>76,297</td>
<td>12%</td>
<td>114,326</td>
<td>11%</td>
<td>67%</td>
</tr>
<tr>
<td>50-59</td>
<td>85,619</td>
<td>14%</td>
<td>121,325</td>
<td>12%</td>
<td>71%</td>
</tr>
<tr>
<td>60-69</td>
<td>107,000</td>
<td>17%</td>
<td>128,571</td>
<td>12%</td>
<td>83%</td>
</tr>
<tr>
<td>70-79</td>
<td>92,298</td>
<td>15%</td>
<td>93,065</td>
<td>9%</td>
<td>99%</td>
</tr>
<tr>
<td>80+</td>
<td>46,029</td>
<td>7%</td>
<td>50,474</td>
<td>5%</td>
<td>91%</td>
</tr>
<tr>
<td>Unknown</td>
<td>13</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td></td>
</tr>
</tbody>
</table>
Total Vaccines Administered in Pima County by Manufacturer and by Week

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Number Administered</th>
<th>% Administered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pfizer</td>
<td>578,732</td>
<td>51%</td>
</tr>
<tr>
<td>Moderna</td>
<td>523,625</td>
<td>46%</td>
</tr>
<tr>
<td>Janssen</td>
<td>40120</td>
<td>3.51%</td>
</tr>
<tr>
<td>AstraZeneca</td>
<td>298</td>
<td>0.03%</td>
</tr>
<tr>
<td>Other</td>
<td>1435</td>
<td>0.13%</td>
</tr>
</tbody>
</table>

Vaccines administered: 1,144,210

- **First dose**: 616,519 (54%)
- **Second dose**: 516,830 (45%)
- **Third dose**: 10,849 (1%)
- **Fourth dose**: 11 (0%)
- **Fifth dose**: 1 (0%)
Weekly Case Breakdown:
154 Eastern Pima County (shown)
4 Contiguous Tohono O'odham Nation (not shown)
0 Ajo/Awhy (not shown)
2 Outlying Areas (not shown)
8 Cases Not Mapped (invalid PC address)

COVID-19
168 Cases by Test Collection Dates between June 6 and June 12

Case Location

0 5
Miles
Weekly Case Breakdown:
175 Eastern Pima County (shown)
  4 Contiguous Tohono O’odham Nation (not shown)
  5 Ajo/Why (not shown)
  2 Outlying Areas (not shown)
10 Cases Not Mapped (invalid PC address)

COVID-19
196 Cases by Test Collection Dates between June 13 and June 19

Case Location
Weekly Case Breakdown:
203 Eastern Pima County (shown)
1 Contiguous Tohono O'odham Nation (not shown)
0 Ajo/Why (not shown)
0 Outlying Areas (not shown)
6 Cases Not Mapped (invalid PC address)

COVID-19
210 Cases by Test Collection Dates
between June 20 and June 26
Weekly Case Breakdown:
202 Eastern Pima County (shown)
2 Contiguous Tohono O'odham Nation (not shown)
1 Ajo/Why (not shown)
0 Outlying Areas (not shown)
17 Cases Not Mapped (invalid PC address)

COVID-19
222 Cases by Test Collection Dates between June 27 and July 3

Case Location
Weekly Case Breakdown:
213 Eastern Pima County (shown)
  0 Contiguous Tohono O'odham Nation (not shown)
  0 Ajo/Why (not shown)
  0 Outlying Areas (not shown)
13 Cases Not Mapped (invalid PC address)

COVID-19
226 Cases by Test Collection Dates between July 4 and July 10

Case Location
Weekly Case Breakdown:
397 Eastern Pima County (shown)
8 Contiguous Tohono O'odham Nation (not shown)
3 Ajo/Why (not shown)
0 Outlying Areas (not shown)
34 Cases Not Mapped (invalid PC address)

COVID-19
442 Cases by Test Collection Dates
between July 11 and July 17

Case Location
Weekly Case Breakdown:
524 Eastern Pima County (shown)
1 Contiguous Tohono O'odham Nation (not shown)
2 Ajaj/Why (not shown)
0 Outlying Areas (not shown)
41 Cases Not Mapped (invalid PC address)

COVID-19
568 Cases by Test Collection Dates between July 18 and July 24

- Case Location
- Single Locations where Cases >= 5

PIMA COUNTY
INFORMATION TECHNOLOGY
DEPARTMENT OF PUBLIC AFFAIRS

33 N. Stone Ave., 15th Floor
Tucson, AZ 85701-1207
Phone: (520) 862-5000
Fax: (520) 862-5020

7/27/2021
Weekly Case Breakdown:
767 Eastern Pima County (shown)
10 Contiguous Tohono O'odham Nation (not shown)
2 Ajo/Why (not shown)
2 Outlying Areas (not shown)
38 Cases NotMapped (invalid PC address)

COVID-19
819 Cases by Test Collection Dates between July 25 and July 31
Weekly Case Breakdown:
1218 Eastern Pima County (shown)
27 Contiguous Tohono O'odham Nation (not shown)
2 Ap'ejí (not shown)
1 Outlying Areas (not shown)
61 Cases Not Mapped (invalid PC address)

COVID-19
1309 Cases by Test Collection Dates between August 1 and August 7