The Communicable Disease Surveillance program works to protect the public by preventing the spread of infectious diseases.

- Responsible for epidemiologic surveillance of communicable disease
- Identify new and emerging infectious diseases
- Monitor disease trends
- Identify and investigate outbreaks
- Identify causes of disease
- Identify people who are at risk
- Determine how to control/stop spread of disease
- Provides education/technical expertise to partners and the public

Common investigations entail:

- **Vaccine-preventable diseases** such as pertussis and measles,
- **Enteric diseases** such as E.coli and salmonella,
- **Zoonotic diseases** such as rabies and plague

**Other EDS Programs**

- **Population Health Epidemiology/Data**
- **Emergency Preparedness & Response**
Epidemiology and Data Science Division

Communicable Disease Epidemiology Vision Statement:
The Communicable Disease Epidemiology Team at ACHD strives to eliminate disease and health disparities in Adams County through **Innovation, Collaboration, Inclusion**

The team will work toward this vision by working through the following goals:

<table>
<thead>
<tr>
<th>Reducing communicable diseases</th>
<th>Improve community involvement</th>
<th>Active surveillance of priority diseases</th>
<th>Reducing health disparities</th>
<th>Become a nationally known leader in communicable disease epidemiology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Examples</td>
<td>Examples</td>
<td>Examples</td>
<td>Examples</td>
<td>Examples</td>
</tr>
<tr>
<td>• Develop performance metrics</td>
<td>• Identify/understand priority populations</td>
<td>• Create new data systems for work</td>
<td>• Ways to measure &amp; track disparities</td>
<td>• Grants for new ideas and innovation</td>
</tr>
<tr>
<td>• Standardize case &amp; outbreak protocols</td>
<td>• Connect with partners</td>
<td>• Climate change integration</td>
<td>• Use of community data</td>
<td>• Research</td>
</tr>
<tr>
<td>• Develop new data tools and analytics</td>
<td>• Community participation</td>
<td>• Analytics</td>
<td>• Identifying community priorities</td>
<td>• Analytics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Standardize work</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Provides medical consultation, technical support, and guidance to the team
## Funding

<table>
<thead>
<tr>
<th>Communicable Disease Epidemiology</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pertussis</td>
<td>$34,619.00</td>
</tr>
<tr>
<td>FoodNet</td>
<td></td>
</tr>
<tr>
<td>COVID-19 ELC (Staff)</td>
<td>$67,083.33</td>
</tr>
<tr>
<td>General Fund</td>
<td>$501,860.67</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>$603,563.00</strong></td>
</tr>
</tbody>
</table>

| COVID-19 ELC                      | $2,919,509 |
Reported Diseases
- Hand Foot and Mouth in a childcare
- Pertussis (one individual with three contacts)
- COVID-19 (Detention facility and ICE)
- Dog bites (2)
- Enteric School Outbreak
- Reported potential food borne illness
- Food Borne Outbreak (Assist with Arapahoe County)

Facilities
- Childcare
- Schools
- Detention Facility
- U.S. Immigration and Customs Enforcement Facility
- Residential Setting
- Large Gathering
- Retail Food

Investigations/Outbreaks
- 5 Investigations
- 3 Outbreak Investigation
- ~10 TCHD Outbreaks have been finished at ACHD

Work in the First Week (through 1/12/2023)
Current State
- Investigations based on priority populations and neighborhood from lab confirmed cases
- Provide education and support for isolation/quarantine
- Community outreach with partners for support with COVID-19 testing and education
- Resource support and connections

Future State
- Acquisition and distribution of 50K+ home tests
- Distribution will be through partners, partner events, ACHD, and neighborhood canvassing to priority populations- (those who may be most impacted when having to take time off work to isolate)
- Attached to each test kit will be immediate ways to connect with our COVID-19 teams for education and connection to resources and support
Adams County Health Department
Respiratory Disease Updates
Board of Health Meeting Jan 19, 2023
COVID-19 in Colorado

Key COVID-19 Updates

- Cases and percent positivity declined last week
- The 7-day moving average number of cases is ~450, down from ~1,100 in early December
- Hospitalizations in Colorado are decreasing
- Overall, U.S. cases are increasing and hospitalizations are flat, with considerable regional variability
- CDC Nowcast variant model for US continues to change:
  - XBB.1.5 estimates (27.6%) have increased rapidly but dropped slightly from last week’s estimate
  - Region 8 currently has lower proportions of XBB.1.5 (6.6%) and XBB (4.9%)
COVID-19 in Colorado

Colorado’s Daily Case Counts and 7 Day Moving Average Trend

Updated Jan 10, 2023
COVID-19 in Adams County

Weekly COVID-19 Case Counts in Adams County, January 1st 2022 - January 11th 2023
COVID-19 in Adams County

Weekly COVID-19 Case Counts in Adams County, October 1st 2022 - January 11th 2023

[Bar chart showing weekly COVID-19 case counts from October 1st 2022 to January 11th 2023.]
COVID-19 in Adams County

7-Day Incidence Rate by Age Group (per 100,000) in Adams County, October 1st 2022 - January 11th 2023

7-Day Incidence Rate by Race or Ethnicity (per 100,000) in Adams County, October 1st 2022 - January 11th 2023
## COVID-19 in Adams County

### Adams County COVID-19 Vaccine Overview, through 1/11/23

<table>
<thead>
<tr>
<th>Individuals with one or more doses</th>
<th>Individuals with an Omicron booster dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>393,628 individuals</td>
<td>79,645 individuals</td>
</tr>
<tr>
<td>75.1% of the county population</td>
<td>15.2% of the county population</td>
</tr>
</tbody>
</table>

Includes individuals with at least one dose of a Pfizer, Moderna, Johnson & Johnson, or Novavax vaccine, either Omicron or non-Omicron. The denominator is the estimated county population.

The population denominator is the entire county population, not the completely vaccinated population.

### Doses

1,044,173 doses administered since December 2020
# COVID-19 in Adams County

## Vaccination Rates by Demographic Groups in Adams County, through 1/11/23

### Vaccinations by race and ethnicity

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>% One or more doses</th>
<th>% Omicron boosted</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Indian or Alaskan Native</td>
<td>64.7%</td>
<td>9.3%</td>
</tr>
<tr>
<td>Asian or Pacific Islander</td>
<td>58.9%</td>
<td>12.2%</td>
</tr>
<tr>
<td>Black or African American</td>
<td>57.1%</td>
<td>10.2%</td>
</tr>
<tr>
<td>Hispanic, All Races</td>
<td>44.5%</td>
<td>6.5%</td>
</tr>
<tr>
<td>White</td>
<td>80.5%</td>
<td>20.3%</td>
</tr>
</tbody>
</table>

The number of individuals by race/ethnicity reflect the totals based on the individual’s response.

Percentages are not available for those identified as "multi race", "other", or "unknown" because population estimates are not available for those groups.

### Vaccinations by age group

<table>
<thead>
<tr>
<th>Age Group</th>
<th>% One or more doses</th>
<th>% Omicron boosted</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-4</td>
<td>14.1%</td>
<td>0.5%</td>
</tr>
<tr>
<td>5-11</td>
<td>45.4%</td>
<td>4.9%</td>
</tr>
<tr>
<td>12-17</td>
<td>76.6%</td>
<td>8.2%</td>
</tr>
<tr>
<td>18-69</td>
<td>84.2%</td>
<td>15.7%</td>
</tr>
<tr>
<td>70+</td>
<td>100.0%</td>
<td>47.4%</td>
</tr>
</tbody>
</table>

Calculated vaccination percentages for smaller groups may exceed 100% due to an underestimate of current population totals. Total percentages are shown capped at 100%.

Population estimates for the total population and for the <5 age group include infants aged 0-6 months because only whole year population estimates are available.
RSV in Colorado

RSV-Associated Hospitalizations by MMWR Week: Rates by Season, 2018-19 to 2022-23

Legend:
- 2018-19 rate
- 2019-20 rate
- 2020-21 rate
- 2021-22 rate
- 2022-23 rate

Hospitalized cases per 100,000

MMWR Week
RSV in Colorado

Pediatric RSV Hospitalization Rates by MMWR Week

Colorado EIP data from Adams, Arapahoe, Denver, Douglas, and Jefferson counties

Hospitalization rate per 100k

MMWR week

19-20  20-21  21-22  22-23
RSV hospitalizations rates for children under 18 remain slightly higher than flu and COVID-19 hospitalization rates

[Graph showing rates of pediatric hospitalizations due to influenza, RSV, and COVID-19 from October 2021 to the present, updated 1/11/2023. The graph indicates a significant spike in RSV hospitalizations in late 2021, with flu and COVID-19 hospitalizations remaining relatively constant. A note states: "*Most recent week subject to reporting lag."]
Influenza-associated hospitalization in Colorado

Influenza-Associated Hospitalizations by MMWR Week: Rates by Season
2016-17 to 2022-23

Current influenza season

Note: Updated 1/11/23. Most recent week subject to reporting lag.
Rates of influenza hospitalizations are higher than rate of COVID hospitalizations.