Overview

Vaccines are a safe and effective way to prevent the spread of serious disease and keep children healthy as they grow. For each birth cohort vaccinated in the U.S. per the recommended schedule, vaccines save 40,000 lives, prevent 20 million cases of disease, and save $17 billion in direct healthcare costs.

All students and child care staff deserve a healthy environment that supports their wellbeing and builds a strong foundation for early learning and development. It takes an entire community to protect against serious disease. Because diseases like measles and whooping cough can spread quickly, especially in child care settings, high vaccination rates are important to help protect the health of children, staff, and others in the community — including those who cannot be vaccinated for medical reasons or babies still too young to receive vaccines. This is known as herd immunity, or community protection.

Ensuring high vaccination coverage and compliance with child care vaccination policy is important not only for the health of children and staff, but also for emergency response efforts. High vaccination coverage also helps prevent societal and economic costs, absenteeism and exclusions. A child’s care and education can be interrupted due to a public health crisis like disease outbreak. Vaccination can help avert these interruptions and protect children’s learning environments.

Which Vaccines Are Required for Child Care and Pre-School Attendance?

- MMR (Measles, Mumps, Rubella)
- DTaP (Diphtheria, Tetanus, Pertussis)
- Inactivated poliovirus / IPV (Polio)
- Hib (Haemophilus influenza type b)
- Penumococcal
- HepB (Hepatitis B)
- Varicella (Chicken Pox)

Which Vaccines Are Also Recommended by the CDC?*

- Rotavirus
- COVID-19
- Hepatitis A
- Influenza (Flu)

*While not required for child care or pre-school attendance, these vaccines are recommended by the CDC. Visit the CDC’s website to learn more about the vaccine schedule and the diseases that vaccines protect against.

Did You Know?

- **8,116** Colorado children under age five were hospitalized or visited an emergency department for vaccine-preventable diseases in 2021.*
- **$59 million** was charged by hospitals and emergency departments to treat children under five for vaccine-preventable diseases in 2021. In 2020, there were $246 million in charges.*
- **35%** of Colorado kids hospitalized with vaccine-preventable diseases are five years old or younger.*
- **98%** of vaccine exemptions in Colorado preschoolers are claimed for non-medical reasons, on average.

Vaccination in the COVID-19 Era

During the COVID-19 pandemic, we’ve seen how a child’s education can be interrupted and negatively impacted by a disease outbreak. As with COVID-19, a case or outbreak of vaccine-preventable disease could force children to be excluded from child care and miss out on valuable learning, and could even force child care closures in some cases. Maintaining high vaccination coverage of students and staff is critical to ensuring their safety and that of those who cannot be vaccinated, preventing additional disease outbreaks, keeping kids in school and preventing learning disruptions.

County Level Rates of Non-Medical Exemptions for the MMR (Measles-Mumps-Rubella) Vaccine, 2021-2022

<table>
<thead>
<tr>
<th>Non-Medical Exemptions</th>
<th>Counties</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00% - 1.49%</td>
<td>16</td>
</tr>
<tr>
<td>1.50% - 2.9%</td>
<td>17</td>
</tr>
<tr>
<td>3.00% - 4.99%</td>
<td>13</td>
</tr>
<tr>
<td>5.00% ≥</td>
<td>18</td>
</tr>
</tbody>
</table>

County-level non-medical exemption rates range from 0% - 37.50%. This information can be viewed for each vaccine on the CDPHE school immunization data website or Immunize Colorado’s data dashboard.

Do Colorado Child Care Facilities have Complete Immunization Policies?

A recent analysis shows approximately 40% of child care centers in Colorado do not have a vaccination policy available on their website. Of those that do have a vaccination policy available, 62% are classified as incomplete, meaning that they lack information on one or more important components, including:

1. **WHICH** vaccines are required to comply with the policy
2. **WHEN** immunization documentation is required to be shared with the center
3. **HOW** immunization records should be submitted to the center
4. The **CONSEQUENCES** of not complying with the policy
5. **WHETHER** any exemptions to vaccines are allowed

*Sourced from Colorado Hospital Association data.
How Is My County Doing?

Total county child care enrollment: 298 students

- Non-medical exemption rates for any vaccine range from 0% - 6%. The median exemption rate for MMR is 0% and the median exemption rate for DTaP is 0%.
- Depending on the vaccine, between 0 and 5 students in Montezuma County claimed an exemption.
- Depending on the vaccine, between 0 and 9 students in Montezuma County have an incomplete or missing record.
- 1 facilities in Montezuma County have exemption rates under 2.5% and 4 have exemption rates higher than 2.5%, making them higher risk for disease outbreaks.

Percentage of non-medical exemptions for the MMR vaccine at each child care facility in Montezuma County

The orange line represents 2.5%, the exemption rate at which facilities begin to be at risk for a disease outbreak.

Why Is Reporting Immunization Rates Important?

If there is an outbreak of measles or whooping cough in a child care facility or pre-school, administrators need to know which children to exclude from attending child care to protect both the individual child, their classmates, and child care staff.

Explore your county’s data dashboard and access related resources at immunizecolorado.org

What We Can Do Together

- REMIND students, families and staff of the importance of on-time vaccination and child care vaccine requirements.
- BUILD RELATIONSHIPS between child care administrators, parents and local public health to meet state vaccination requirements.
- PARTNER with other stakeholders to identify opportunities to deliver and/or improve access to vaccines for students and staff.
- SEEK SUPPORT AND GUIDANCE from your local public health agency and CDPHE regarding communicable disease control protocol.
- STAY INFORMED of science-based immunization information, as well as what’s happening with vaccine coverage rates and outbreaks in your community and beyond. Vaccine-preventable disease can spread quickly across regions.
- ENCOURAGE families to provide accurate vaccination records rather than claim an exemption out of convenience. Assist families in locating their child’s vaccination records rather than claim an exemption out of convenience. Assist families in locating their child’s vaccination records.
- SUPPORT POLICIES that help families access vaccines and ensure appropriate funding for resources that support disease response efforts, such as the Colorado Immunization Information System (CIIS).

Senate Bill 163, passed into law in 2020, changed the process for claiming a non-medical exemption starting for the 2021-22 school year. Visit our website to learn more.