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)

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 Exemption Rate</th>
<th>Number of 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% - 6.99%</td>
<td>17</td>
</tr>
<tr>
<td>7.00% - 8.99%</td>
<td>17</td>
</tr>
<tr>
<td>9.00% - 11.99%</td>
<td>18</td>
</tr>
<tr>
<td>12.00% - 14.99%</td>
<td>18</td>
</tr>
<tr>
<td>15.00% - 17.99%</td>
<td>18</td>
</tr>
<tr>
<td>18.00% - 20.99%</td>
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</tr>
<tr>
<td>21.00% - 23.99%</td>
<td>18</td>
</tr>
<tr>
<td>24.00% - 26.99%</td>
<td>18</td>
</tr>
<tr>
<td>27.00% - 29.99%</td>
<td>18</td>
</tr>
<tr>
<td>30.00% - 32.99%</td>
<td>18</td>
</tr>
<tr>
<td>33.00% - 35.99%</td>
<td>18</td>
</tr>
<tr>
<td>36.00% - 37.99%</td>
<td>18</td>
</tr>
</tbody>
</table>

*While not required for child care or pre-school attendance, these vaccines are recommended by the CDC. [Visit the CDC’s website](https://www.cdc.gov/vaccines/schedules/downloads/hcp/0-19-schedule-hcp.pdf) to learn more about the vaccine schedule and the diseases that vaccines protect against.

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:** 418 students

- Non-medical exemption rates for any vaccine range from 0% - 32%. The median exemption rate for MMR is 0.1% and the median exemption rate for DTaP is 0.1%.

- Depending on the vaccine, between 0 and 10 students in Delta County claimed an exemption.

- Depending on the vaccine, between 0 and 0 students in Delta County have an incomplete or missing record.

- 1 facilities in Delta County have exemption rates under 2.5% and 7 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 Delta County**

<table>
<thead>
<tr>
<th>Exemption Rate</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>0% - 2.5%</td>
<td>90%</td>
</tr>
<tr>
<td>2.5% - 10%</td>
<td>10%</td>
</tr>
<tr>
<td>10% - 32%</td>
<td>0%</td>
</tr>
</tbody>
</table>

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

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**What Is My Role as a Parent?**

- Review the [immunization rates](https://immunizecolorado.org) at your child care center or pre-school. Facilities that have high immunization rates are at lower risk for outbreaks of preventable diseases.

- Ask about flu shot policies at your child care center or pre-school. Are children and staff required to get a flu shot each year? Although the flu vaccine is not required for attendance at licensed child care facilities, the CDC recommends everyone over 6 months receive a flu shot each year. The CDC vaccine-preventable diseases can spread quickly across regions.

- Submit your child’s vaccination records to your child care facility each time your child receives a vaccine (at ages 2, 4, 6, 12, and 18 months). This is required under state law. Non-medical exemptions must also be submitted at these intervals.

- Ensure any family members who come into contact with your child are current on recommended vaccines. This provides a circle of protection around your child against any diseases they cannot yet be fully vaccinated against.

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**What Is My Role as a Child Care Provider?**

- Document and annually report your facility’s immunization and exemption rates to the Colorado Department of Public Health and Environment (CDPHE). This reporting is required under state licensing laws.

- Collect immunization records or certificates of non-medical exemption from parents. This must be done for each child at ages 2, 4, 6, 12, and 18 months. Medical exemption certificates must be collected annually.

- Consider creating a comprehensive child care immunization policy, including a recommendation or requirement that staff be fully immunized. Research shows parents highly value vaccination rates when deciding where to send their child for pre-school or child care. For sample policy language, view Immunize Colorado’s [Child Care Vaccine Policy Toolkit](https://immunizecolorado.org).

- Ensure staff are adequately trained on state vaccination requirements. State law requires child care staff responsible for immunization record keeping to annually complete the [Child Care/Preschool Immunization Course](https://immunizecolorado.org).